

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198864

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL2-7050-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6504 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

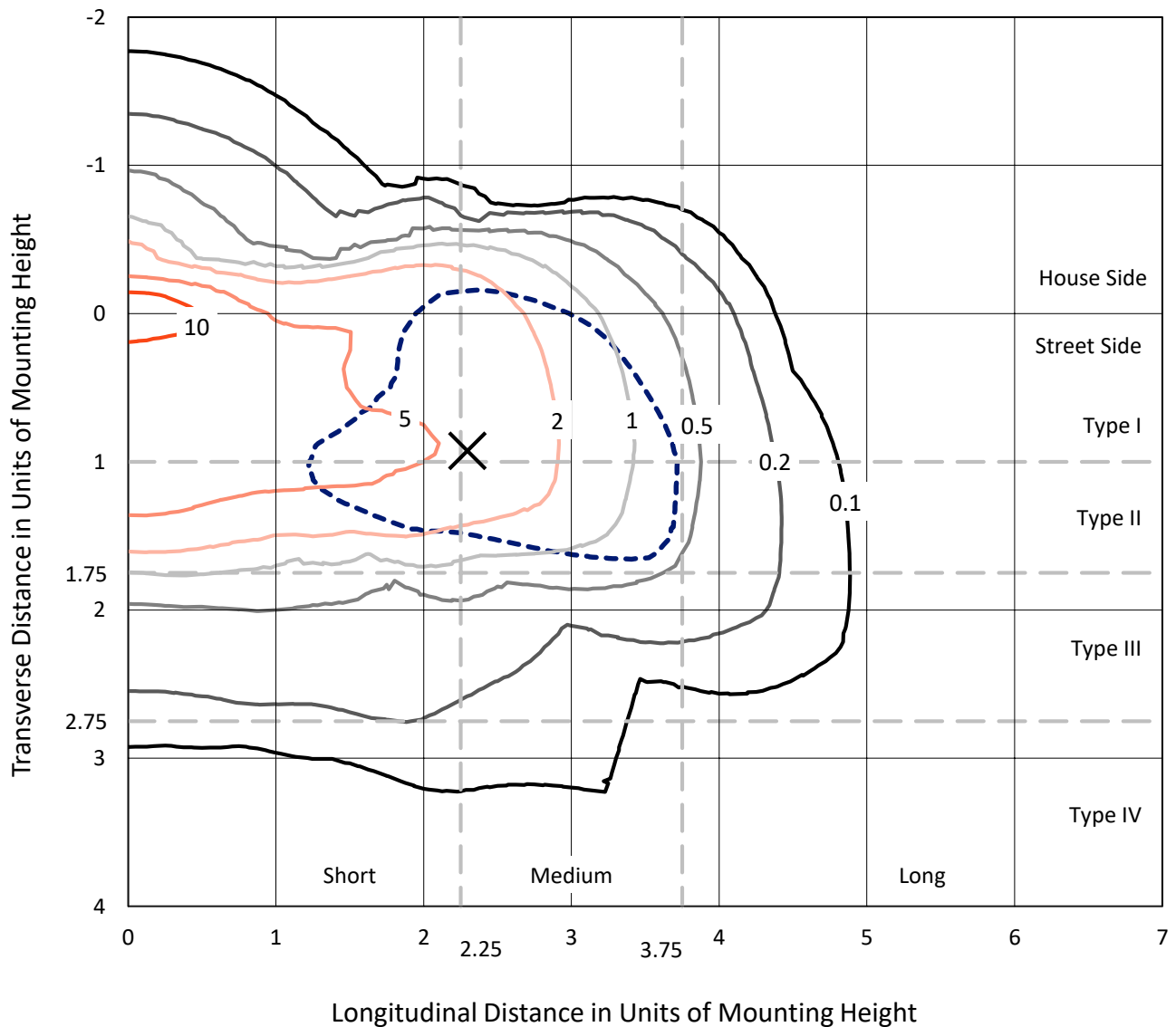


REPORT NUMBER: P198864

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

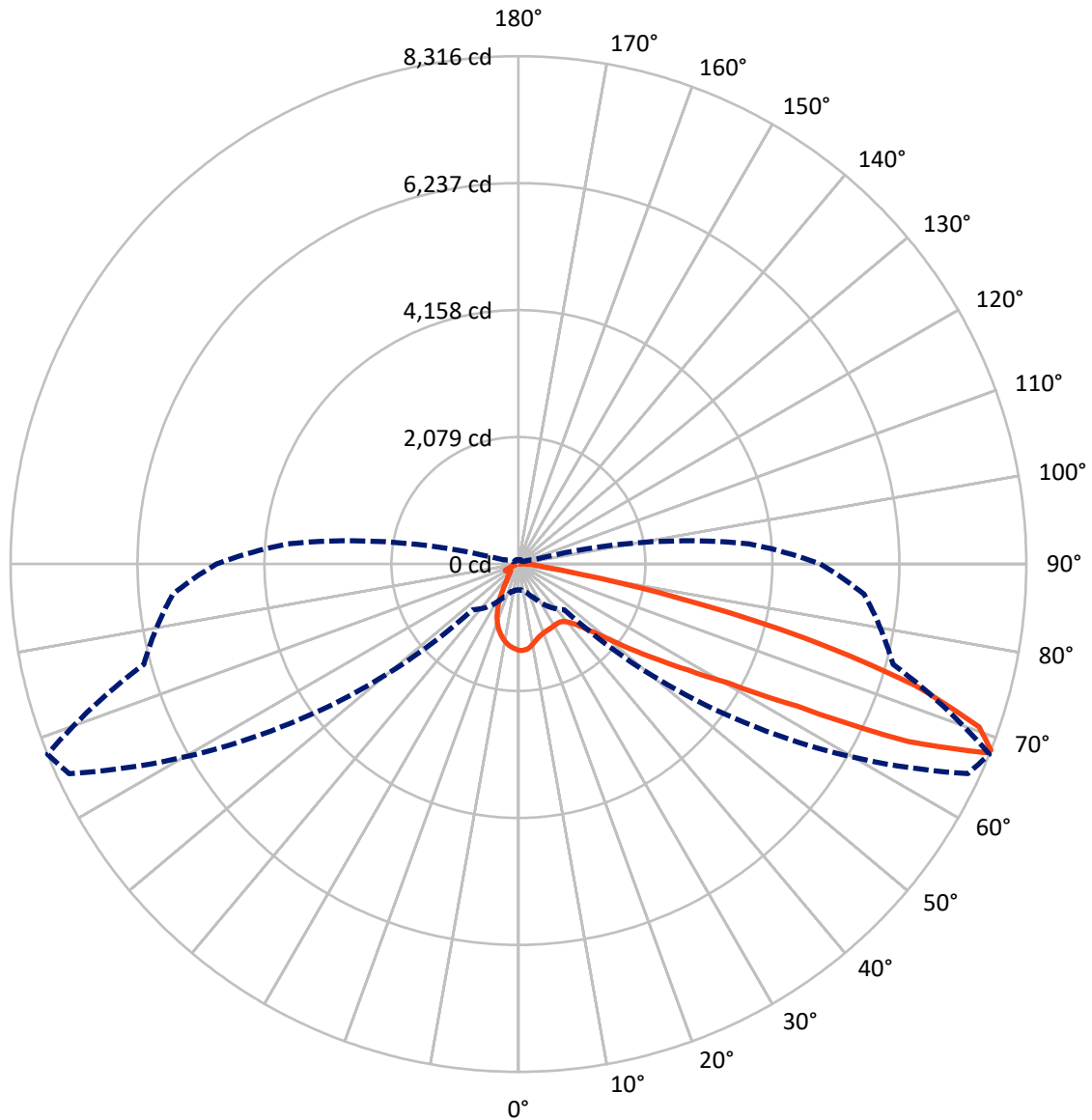


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198864

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P198864

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.1	0.0	1064.1
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	5439.9	0.0	5439.9
	% Fixture	83.6	0.0	83.6
Total	Lumens	6504.0	0.0	6504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	1.9
10°-20°	281.2	4.3
20°-30°	380.4	5.8
30°-40°	536.3	8.2
40°-50°	881.9	13.6
50°-60°	1367.0	21.0
60°-70°	1772.4	27.3
70°-80°	1017.1	15.6
80°-90°	146.3	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6504.0	100.0
0°-180°	6504.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198864

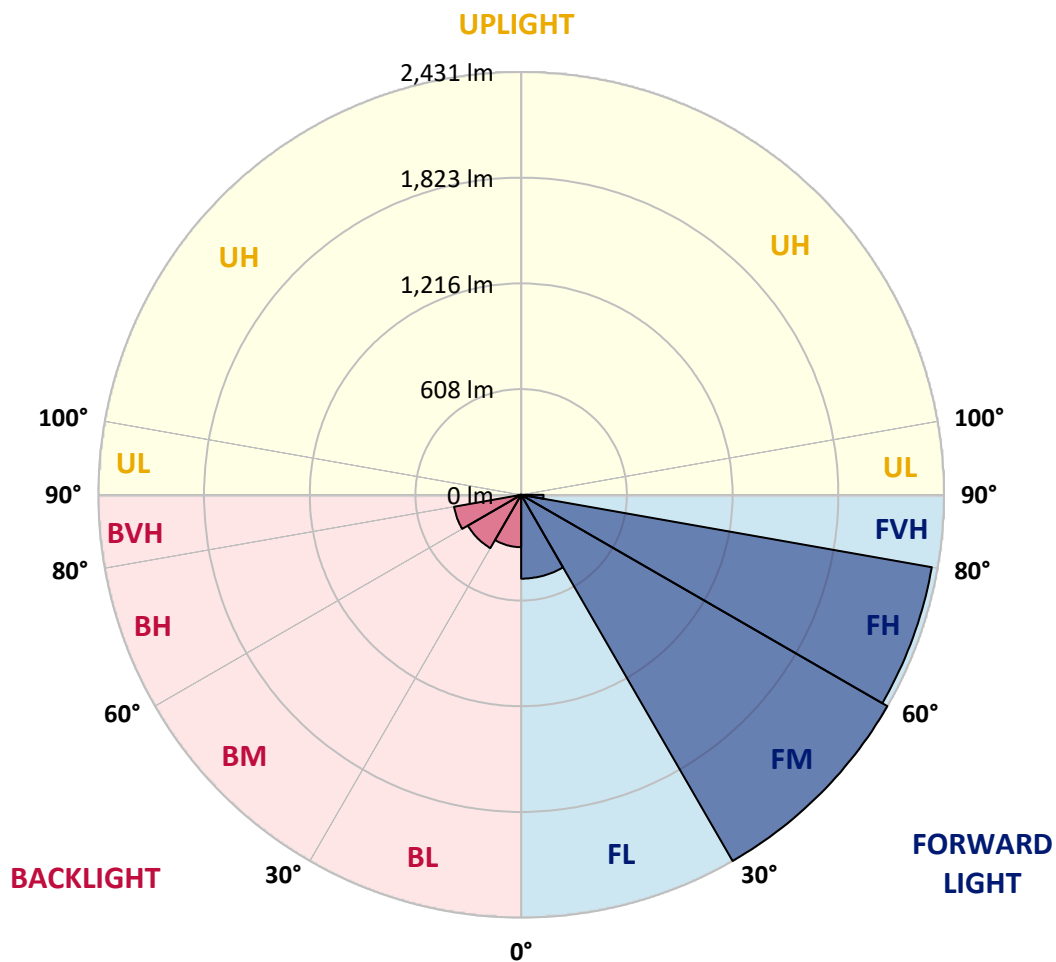
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.1	7.4			
FM (30°-60°)	2431.3	37.4			
FH (60°-80°)	2397.7	36.9			G2/5000
FVH (80°-90°)	128.9	2.0			G2/225
BL (0°-30°)	300.8	4.6	B1/500		
BM (30°-60°)	353.9	5.4	B1/1000		
BH (60°-80°)	391.9	6.0	B1/500		G1/500
BVH (80°-90°)	17.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P198864

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1377.4	1388.4	1388.4	1396.5	1403.7	1409.7	1414.8	1414.8	1414.8	1411.4	1408.4
5°	1232.5	1247.4	1249.5	1269.9	1296.7	1329.4	1365.9	1398.2	1404.6	1416.5	1421.2
7.5°	1131.8	1136.5	1144.6	1158.6	1185.8	1226.1	1283.5	1355.7	1373.2	1410.5	1430.1
10°	1060.5	1064.3	1071.1	1085.1	1109.7	1146.3	1202.8	1296.7	1325.6	1391.8	1430.5
12.5°	1008.2	1011.2	1017.5	1030.3	1055.4	1088.1	1145.9	1243.6	1279.3	1373.2	1436.5
15°	967.4	972.5	977.6	989.9	1015.4	1046.9	1105.5	1204.9	1243.6	1358.3	1447.5
17.5°	951.3	953.8	954.7	961.0	984.0	1015.8	1074.5	1177.7	1217.7	1346.4	1456.0
20°	961.5	961.9	953.4	949.1	962.3	991.6	1048.6	1157.3	1198.1	1335.8	1459.4
22.5°	1006.1	1006.1	984.0	965.3	956.4	974.6	1031.1	1143.3	1187.5	1327.7	1459.4
25°	1091.0	1087.2	1052.8	1015.8	976.3	968.7	1020.1	1134.4	1179.4	1323.4	1453.9
27.5°	1202.8	1199.4	1155.6	1100.8	1029.4	981.4	1016.3	1127.2	1171.3	1317.1	1442.0
30°	1338.7	1335.8	1286.1	1214.3	1108.9	1021.8	1025.2	1122.1	1165.0	1306.4	1422.0
32.5°	1474.3	1472.6	1433.1	1359.6	1218.5	1090.2	1048.6	1121.2	1161.6	1293.7	1397.8
35°	1610.6	1610.6	1586.4	1524.4	1365.9	1193.0	1097.4	1136.9	1167.9	1286.9	1377.0
37.5°	1812.0	1804.0	1758.9	1694.8	1551.6	1326.4	1176.4	1170.1	1192.6	1298.4	1370.2
40°	2123.9	2100.5	1987.9	1880.0	1754.3	1497.2	1292.0	1234.2	1247.8	1337.5	1386.3
42.5°	2450.2	2413.2	2264.1	2091.6	1963.7	1707.9	1443.7	1338.3	1337.9	1413.1	1437.7
45°	2730.2	2711.0	2549.6	2330.8	2202.9	1945.0	1635.3	1493.0	1477.7	1530.3	1536.7
47.5°	2892.9	2880.1	2782.8	2584.0	2486.7	2225.0	1878.3	1707.5	1678.6	1710.1	1700.3
50°	2847.8	2860.2	2832.1	2730.6	2791.8	2618.4	2188.0	2001.5	1946.7	1978.2	1954.4
52.5°	2610.8	2643.9	2669.0	2688.5	2967.2	3144.8	2577.2	2368.6	2323.1	2317.6	2294.7
55°	2183.8	2236.5	2315.5	2459.1	2920.1	3567.6	3257.0	2812.6	2746.3	2711.5	2720.4
57.5°	1486.2	1566.0	1736.4	2009.6	2674.9	3747.7	4262.2	3386.1	3274.0	3149.9	3178.8
60°	818.7	885.4	1088.1	1363.4	2115.4	3720.9	5153.1	4318.3	3965.2	3636.4	3695.9
62.5°	529.8	544.2	695.1	931.3	1298.4	3285.0	5648.1	5876.3	5128.1	4277.9	4361.6
65°	425.7	435.9	509.8	751.2	904.5	2113.3	5670.2	7492.4	6999.2	5149.7	5152.3
67.5°	415.9	420.6	463.5	631.8	848.4	1150.5	4901.2	8129.7	8244.0	6178.8	5681.2
68°	421.9	427.4	470.7	612.2	848.0	1060.5	4529.9	8119.9	8315.8	6350.8	5681.2
70°	372.2	379.0	480.1	633.5	811.9	911.8	3101.9	7688.7	8004.0	6746.4	5390.6
72.5°	194.6	189.1	237.5	500.1	913.9	950.0	1638.7	6423.5	6791.4	6248.0	4657.3
75°	151.7	138.1	133.0	197.6	803.8	985.3	951.7	4565.6	4843.4	4504.0	3113.0
77.5°	142.8	126.2	116.4	116.8	353.9	1025.2	769.8	2686.8	2686.8	2148.5	993.3
80°	114.7	99.4	93.0	106.2	170.8	944.9	803.4	1224.4	1044.3	555.3	273.6
82.5°	75.6	67.6	68.0	86.2	129.6	630.9	930.4	604.6	454.2	246.0	161.0
85°	48.0	41.2	45.9	60.3	96.9	281.3	921.1	420.2	300.8	138.1	80.3
87.5°	24.2	18.7	22.9	31.4	59.1	80.7	758.4	375.2	223.1	57.4	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198864

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1408.4	1399.1	1394.4	1386.7	1377.4	1368.1	1361.7	1358.7	1357.0	1357.9	1357.4
5°	1418.6	1406.3	1386.3	1357.9	1328.5	1297.5	1273.7	1255.5	1244.0	1240.6	1239.7
7.5°	1426.3	1408.4	1371.0	1319.2	1269.1	1214.7	1168.4	1131.4	1106.3	1094.9	1094.4
10°	1425.0	1402.0	1343.0	1266.5	1193.0	1113.1	1040.5	978.5	933.4	911.8	910.9
12.5°	1426.3	1394.8	1308.6	1204.9	1099.5	985.3	877.3	780.9	713.8	681.9	680.6
15°	1431.4	1387.2	1273.3	1136.1	990.4	828.9	674.7	553.6	492.4	471.6	471.6
17.5°	1430.9	1374.4	1232.5	1056.2	860.8	644.5	460.5	385.8	379.8	398.9	401.9
20°	1422.4	1354.0	1179.8	961.5	708.7	446.1	312.3	301.7	349.2	401.9	407.9
22.5°	1409.3	1327.7	1119.1	851.4	531.5	290.6	240.9	257.0	321.6	387.0	396.4
25°	1391.0	1295.8	1049.4	723.5	353.5	209.0	201.0	220.9	266.4	310.1	316.9
27.5°	1364.2	1255.5	973.4	585.0	225.6	172.1	175.0	189.1	208.6	227.3	231.1
30°	1330.7	1208.3	890.5	431.7	171.2	153.8	158.9	167.4	175.9	187.8	190.3
32.5°	1296.7	1160.3	804.3	296.6	149.6	144.0	149.1	153.8	161.0	169.1	170.8
35°	1266.1	1115.7	715.5	206.9	140.2	137.7	140.2	143.2	150.4	158.5	159.3
37.5°	1244.0	1079.1	622.8	163.6	134.7	132.1	133.4	134.7	143.2	155.1	156.3
40°	1241.0	1054.9	529.0	147.0	130.4	127.0	126.2	127.0	138.1	151.7	153.0
42.5°	1269.9	1056.2	437.2	140.2	127.0	123.2	119.8	121.5	131.3	141.9	142.8
45°	1338.3	1085.9	357.7	137.2	124.1	121.1	116.0	116.8	121.5	127.0	127.9
47.5°	1459.0	1150.9	297.0	135.5	121.5	119.0	112.6	110.0	110.5	113.4	113.4
50°	1651.9	1259.7	260.0	133.8	119.4	114.7	107.5	102.4	101.1	102.8	103.2
52.5°	1939.5	1446.2	242.2	130.4	115.6	109.2	101.1	96.0	93.9	95.6	95.6
55°	2328.2	1744.1	233.7	125.8	110.9	102.4	95.2	90.9	89.2	90.5	90.5
57.5°	2771.4	2131.1	248.1	119.4	104.9	95.2	90.1	87.1	85.8	87.1	87.5
60°	3297.8	2637.5	347.5	111.3	98.6	88.8	85.8	84.1	83.3	84.5	84.5
62.5°	3997.5	3311.4	537.9	104.9	91.8	82.8	82.0	81.1	80.3	81.6	81.6
65°	4752.9	3924.4	553.6	101.1	85.8	77.7	78.2	78.2	77.3	78.6	78.6
67.5°	4993.4	3871.3	309.3	96.4	78.6	72.7	74.4	74.4	73.9	75.2	74.8
68°	4942.4	3787.2	269.4	95.2	77.3	71.4	73.1	73.5	73.1	74.4	73.9
70°	4562.6	3325.0	177.2	87.9	71.8	67.1	69.7	70.1	69.7	71.4	71.0
72.5°	3766.4	2493.9	130.9	76.9	65.0	61.6	64.2	64.6	65.0	66.7	66.3
75°	2392.0	1377.4	103.2	65.4	58.2	55.2	57.8	59.1	59.9	62.5	61.2
77.5°	655.1	418.1	83.7	55.7	50.1	48.9	50.6	52.3	53.1	56.1	54.0
80°	229.4	184.8	69.7	47.2	41.6	41.2	42.9	44.6	45.5	48.0	45.5
82.5°	139.4	120.7	55.7	37.0	32.7	32.3	34.4	36.1	37.0	37.0	35.3
85°	72.7	63.7	40.8	25.9	22.5	21.2	25.1	27.2	27.6	27.2	25.9
87.5°	40.8	36.1	21.7	12.3	10.2	10.6	13.2	16.1	17.4	17.0	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)