

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: P199200

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
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-SL3-8030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5407 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

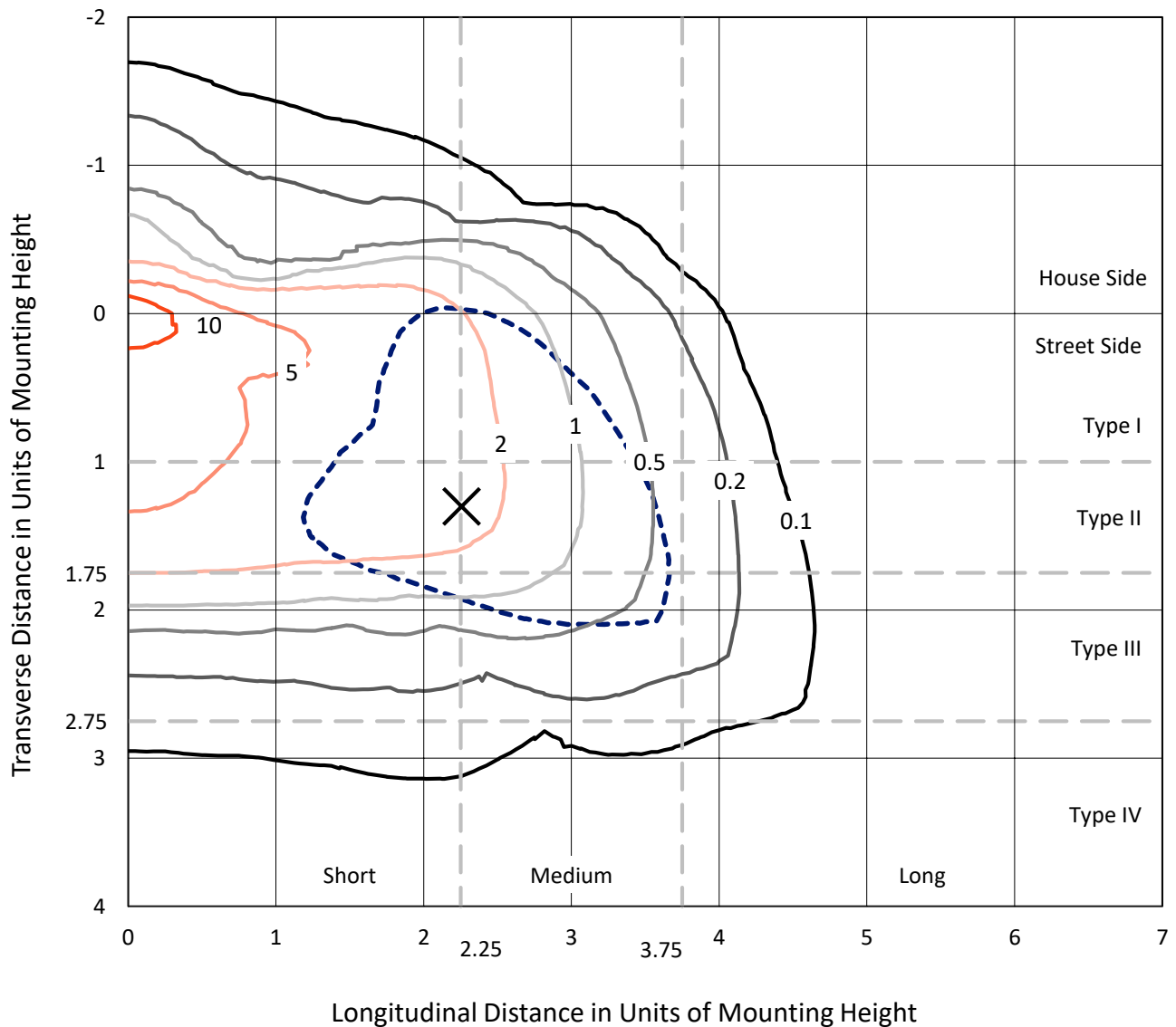
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

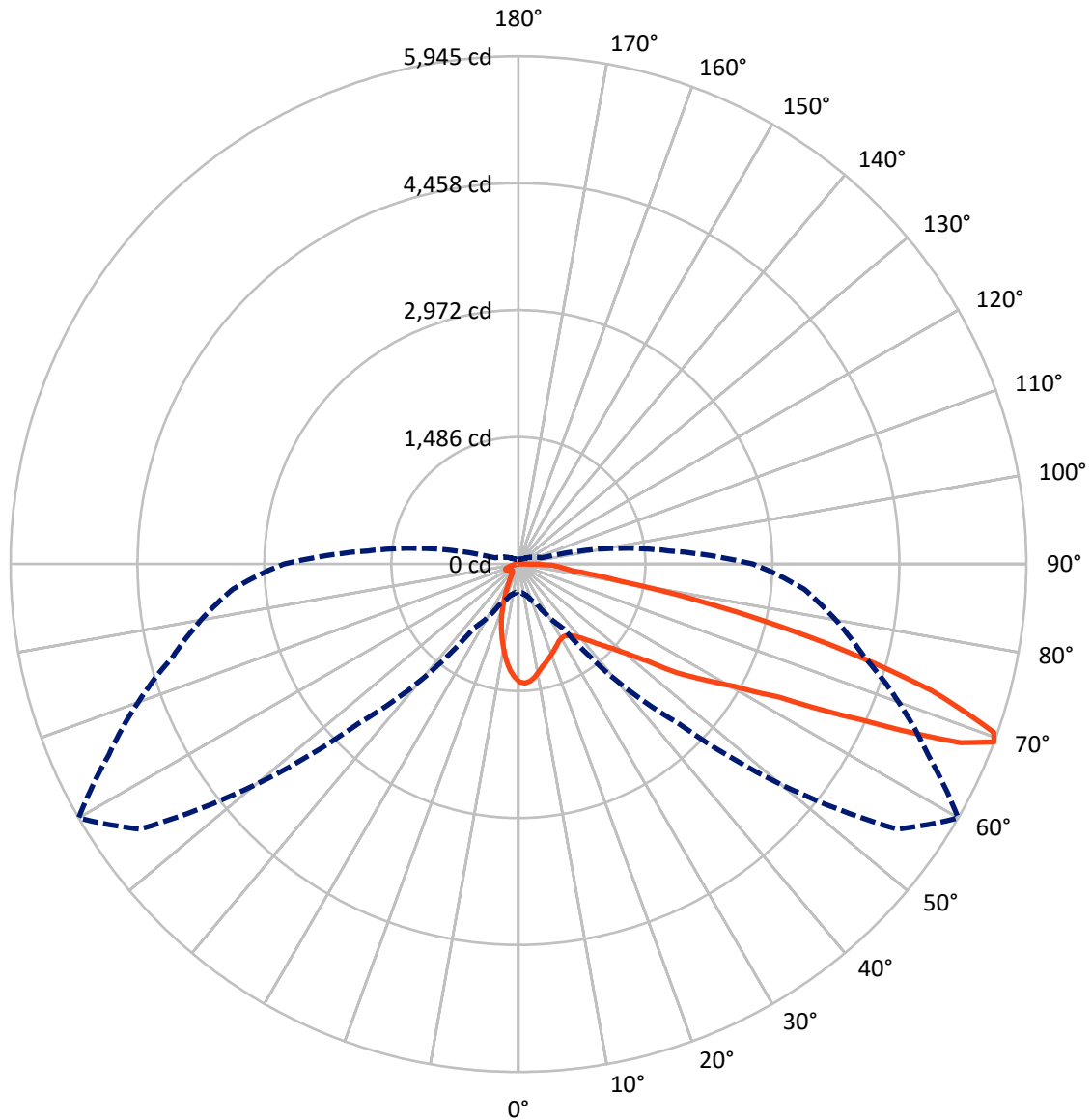


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	771.2	0.0	771.2
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	4635.8	0.0	4635.8
	% Fixture	85.7	0.0	85.7
Total	Lumens	5407.0	0.0	5407.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	2.2
10°-20°	250.6	4.6
20°-30°	319.7	5.9
30°-40°	439.9	8.1
40°-50°	712.6	13.2
50°-60°	1118.3	20.7
60°-70°	1491.0	27.6
70°-80°	829.3	15.3
80°-90°	128.6	2.4
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°	5407.0	100.0
0°-180°	5407.0	100.0



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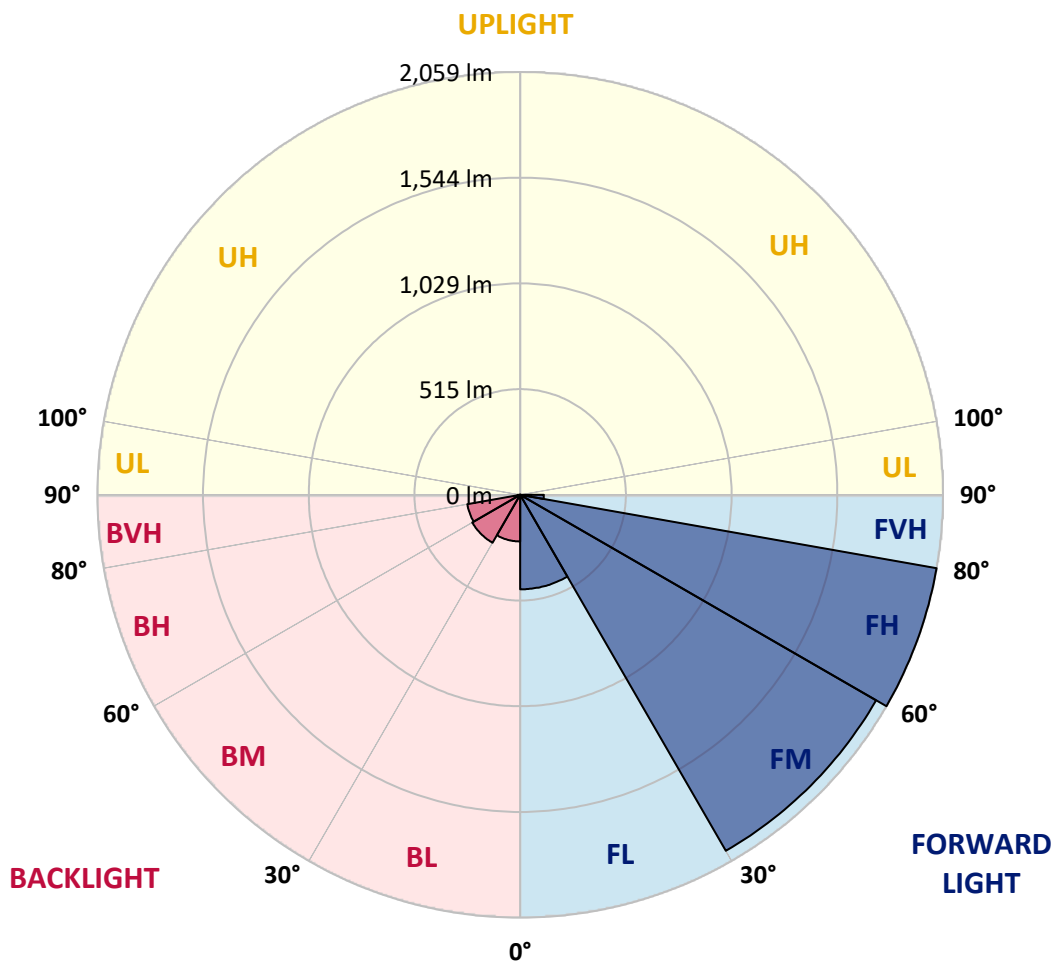
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.0	8.5			
FM	(30°-60°)	2001.4	37.0			
FH	(60°-80°)	2058.8	38.1			G2/5000
FVH	(80°-90°)	115.6	2.1			G2/225
BL	(0°-30°)	227.3	4.2	B1/500		
BM	(30°-60°)	269.4	5.0	B1/1000		
BH	(60°-80°)	261.5	4.8	B1/500		G1/500
BVH	(80°-90°)	13.0	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6
2.5°	1416.4	1420.2	1420.2	1417.1	1415.3	1405.3	1399.4	1395.2	1387.9	1374.4	1362.3
5°	1365.7	1373.0	1376.1	1377.5	1386.5	1383.4	1383.8	1381.0	1374.8	1360.2	1340.4
7.5°	1272.8	1274.2	1279.8	1289.1	1311.0	1326.2	1338.7	1341.1	1339.7	1329.0	1301.3
10°	1181.3	1183.7	1190.3	1206.3	1227.1	1248.9	1275.9	1287.0	1295.4	1291.9	1256.9
12.5°	1105.4	1105.7	1113.0	1131.4	1154.6	1182.0	1218.7	1236.1	1255.8	1263.8	1224.6
15°	1032.2	1037.1	1044.0	1066.2	1095.0	1129.6	1171.9	1195.8	1221.9	1244.7	1199.7
17.5°	976.7	980.5	984.7	1003.1	1036.4	1079.7	1132.1	1157.7	1192.0	1227.1	1174.0
20°	946.2	947.6	944.5	953.5	981.6	1028.4	1089.1	1119.9	1160.8	1210.1	1147.7
22.5°	940.0	940.0	928.5	926.8	939.3	978.8	1044.7	1082.5	1132.4	1198.3	1124.1
25°	969.1	967.0	945.5	925.8	921.2	941.4	1002.4	1048.8	1108.1	1197.9	1106.4
27.5°	1024.2	1021.4	994.7	961.5	932.7	924.0	969.8	1017.3	1089.1	1209.7	1097.4
30°	1092.9	1091.8	1064.8	1023.2	975.7	931.0	957.0	1001.0	1076.2	1231.6	1097.0
32.5°	1168.1	1163.3	1146.6	1105.0	1043.3	969.4	964.6	1001.7	1072.8	1263.5	1105.0
35°	1248.2	1244.7	1240.6	1198.6	1129.3	1037.4	998.2	1025.6	1089.8	1307.8	1127.5
37.5°	1350.1	1346.3	1353.3	1307.5	1231.6	1126.5	1055.1	1073.5	1124.4	1372.3	1169.5
40°	1531.5	1520.4	1501.0	1430.6	1350.8	1235.7	1137.3	1140.0	1183.7	1458.7	1236.8
42.5°	1829.3	1793.6	1697.6	1568.2	1476.7	1362.6	1244.4	1231.2	1265.5	1572.7	1334.5
45°	2127.8	2087.6	1925.4	1718.4	1607.1	1498.9	1376.8	1345.3	1367.5	1705.5	1460.4
47.5°	2320.6	2300.9	2117.8	1868.5	1743.7	1647.3	1528.4	1476.3	1492.3	1856.0	1615.7
50°	2377.1	2360.1	2216.3	1986.0	1872.7	1826.5	1715.9	1646.9	1649.7	2031.8	1801.9
52.5°	2334.8	2327.9	2232.6	2058.8	1991.2	2015.5	1975.6	1879.6	1856.7	2224.6	2003.7
55°	2278.3	2280.7	2244.0	2132.0	2111.9	2191.6	2315.4	2238.1	2141.0	2425.3	2213.8
57.5°	2100.5	2102.2	2198.6	2271.4	2342.1	2438.5	2580.0	2547.4	2434.3	2642.0	2449.3
60°	1691.3	1704.8	1919.5	2242.6	2605.3	2925.0	2959.6	2903.5	2746.4	2891.7	2755.4
62.5°	1208.3	1220.5	1469.1	1946.9	2574.4	3475.6	3660.7	3437.4	3169.7	3265.1	3186.0
65°	634.9	632.8	825.2	1345.3	2168.4	3603.2	4765.4	4385.4	3883.0	3778.6	3602.1
67.5°	354.7	366.1	440.7	678.5	1413.2	3171.1	5471.0	5582.9	4874.6	4186.0	3584.1
69°	328.0	331.8	381.7	524.6	921.2	2616.4	5410.3	5944.6	5292.7	4187.7	3353.2
70°	318.6	322.8	368.2	483.3	773.9	2143.8	5189.4	5902.3	5394.3	4094.8	3143.0
72.5°	285.7	291.2	335.3	434.4	652.2	1105.0	4180.1	5051.8	4886.4	3578.9	2437.1
75°	243.7	253.1	319.7	431.3	617.9	702.5	2787.7	3763.7	3636.8	2559.5	1382.7
77.5°	100.9	101.9	139.7	315.9	648.4	672.3	1498.2	2384.1	2110.5	1122.3	416.4
80°	70.4	69.0	69.7	92.2	523.2	676.8	768.7	1212.5	942.4	296.1	194.9
82.5°	59.3	58.6	61.4	57.9	177.2	768.0	642.8	632.1	443.8	159.5	92.9
85°	39.2	38.1	50.3	52.7	84.3	609.9	691.4	496.9	330.8	85.3	39.5
87.5°	19.1	19.4	28.8	35.7	44.7	193.1	662.2	392.8	255.5	37.1	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6	1379.6
2.5°	1357.4	1347.0	1337.7	1325.9	1316.9	1309.2	1298.8	1298.5	1296.7	1299.2	1299.9
5°	1327.3	1309.9	1283.6	1254.1	1233.3	1205.9	1179.2	1170.2	1160.1	1159.1	1162.2
7.5°	1281.8	1254.8	1209.7	1164.6	1119.6	1073.5	1029.8	1007.6	986.1	979.5	982.6
10°	1231.2	1196.9	1127.9	1054.4	990.9	922.3	855.7	812.7	773.5	756.9	761.1
12.5°	1191.7	1148.0	1050.9	955.6	860.6	762.1	674.4	589.4	525.3	496.5	498.2
15°	1157.7	1101.9	978.8	851.9	733.0	598.1	476.4	377.9	321.8	301.0	300.3
17.5°	1121.0	1053.3	903.6	755.5	601.2	434.4	319.0	260.7	238.5	231.6	231.6
20°	1081.8	1003.4	824.9	650.5	462.5	303.4	239.9	217.4	209.1	207.0	206.6
22.5°	1045.4	954.5	745.8	538.5	334.6	230.2	204.2	195.6	194.2	195.9	195.9
25°	1016.6	911.5	665.7	420.6	243.4	192.8	181.7	180.6	185.8	192.1	193.1
27.5°	995.1	873.1	586.7	307.2	191.4	167.8	164.0	168.5	180.6	193.1	195.6
30°	980.2	840.1	492.0	220.9	159.5	147.0	148.7	156.7	175.1	194.2	199.4
32.5°	973.6	813.4	396.7	169.5	136.3	129.3	133.8	144.2	163.3	182.4	188.6
35°	979.8	794.0	308.6	140.8	119.3	114.1	119.3	130.0	142.5	151.9	155.7
37.5°	1002.4	787.1	232.3	124.8	108.2	103.0	107.1	114.4	120.0	123.4	125.2
40°	1049.9	794.3	182.0	116.5	101.9	96.0	97.1	100.5	104.4	107.1	107.5
42.5°	1125.5	818.3	161.9	113.4	98.1	90.5	88.8	91.2	95.3	99.2	99.9
45°	1226.0	858.1	159.8	114.4	96.4	86.0	82.5	84.9	90.5	96.7	97.8
47.5°	1356.0	921.2	169.5	120.0	97.4	83.6	78.4	80.8	88.1	96.4	97.8
50°	1510.0	1008.6	187.6	128.3	102.3	83.6	76.6	78.7	86.3	95.7	97.1
52.5°	1691.3	1130.3	206.3	136.6	109.2	86.7	77.3	77.0	83.9	92.6	94.3
55°	1891.4	1281.5	224.3	143.9	113.0	90.8	79.1	74.9	80.4	87.4	88.8
57.5°	2126.8	1488.5	255.9	150.8	115.1	94.0	81.1	72.8	75.9	80.8	81.8
60°	2446.1	1792.6	317.3	162.6	118.9	95.3	81.5	70.7	70.4	73.9	74.2
62.5°	2862.6	2148.6	375.8	176.5	126.6	95.7	80.1	69.3	65.9	66.9	66.9
65°	3158.7	2279.7	358.9	188.3	133.5	95.3	78.7	68.3	62.4	60.7	60.7
67.5°	2990.1	2013.8	304.8	191.4	134.2	91.5	75.6	65.9	59.3	55.1	55.1
69°	2742.6	1765.2	279.8	185.8	128.6	87.0	72.1	63.5	57.2	52.4	52.4
70°	2540.8	1576.9	264.6	179.3	122.0	83.2	69.0	61.0	55.1	51.0	50.6
72.5°	1896.9	1052.3	226.1	154.6	100.2	70.4	60.3	54.4	49.6	46.8	46.8
75°	1001.0	527.4	185.2	126.2	77.3	56.2	49.6	45.8	43.0	42.6	42.3
77.5°	328.0	238.5	133.1	95.0	56.9	43.7	39.5	37.1	36.8	38.1	38.1
80°	177.2	142.5	85.6	64.1	39.5	32.6	30.5	30.2	31.2	33.3	33.3
82.5°	86.0	70.4	51.0	39.5	27.0	23.9	23.9	24.3	25.7	28.1	28.1
85°	37.1	33.3	29.5	22.2	16.6	14.9	17.0	18.7	19.8	21.5	22.2
87.5°	17.7	15.6	13.5	8.7	7.3	7.6	9.0	11.1	13.2	14.6	14.9
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)