

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: P271238

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271238
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-SL3-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5756.4 lumens
Efficiency: N/A
Efficacy: 87.2 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

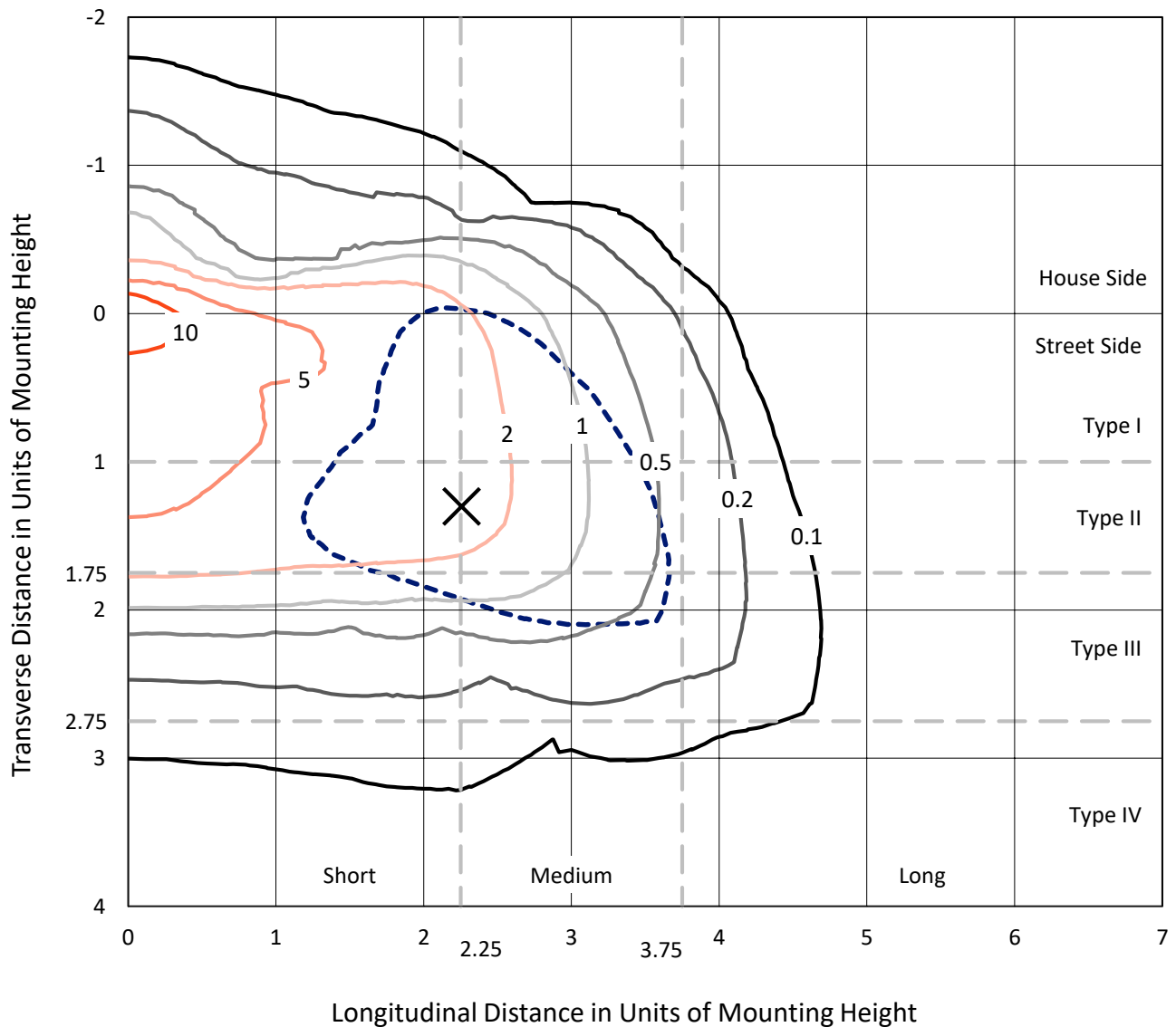


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

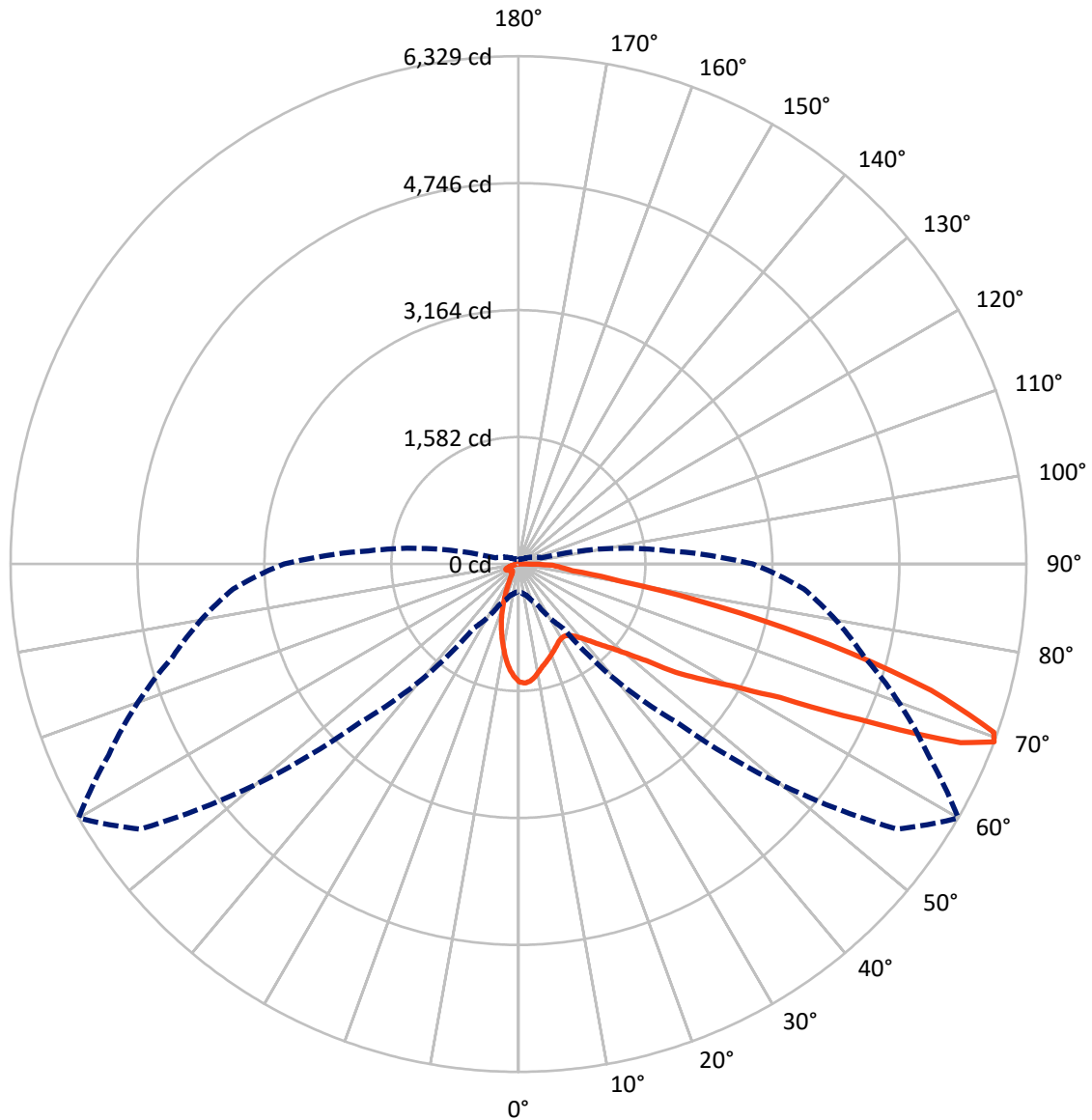


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Medium - Non-Cutoff

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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	821.1	0.0	821.1
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	4935.3	0.0	4935.3
	% Fixture	85.7	0.0	85.7
Total	Lumens	5756.4	0.0	5756.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	2.2
10°-20°	266.8	4.6
20°-30°	340.3	5.9
30°-40°	468.3	8.1
40°-50°	758.6	13.2
50°-60°	1190.6	20.7
60°-70°	1587.3	27.6
70°-80°	882.9	15.3
80°-90°	136.9	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°	5756.4	100.0
0°-180°	5756.4	100.0

Coefficient of Utilization



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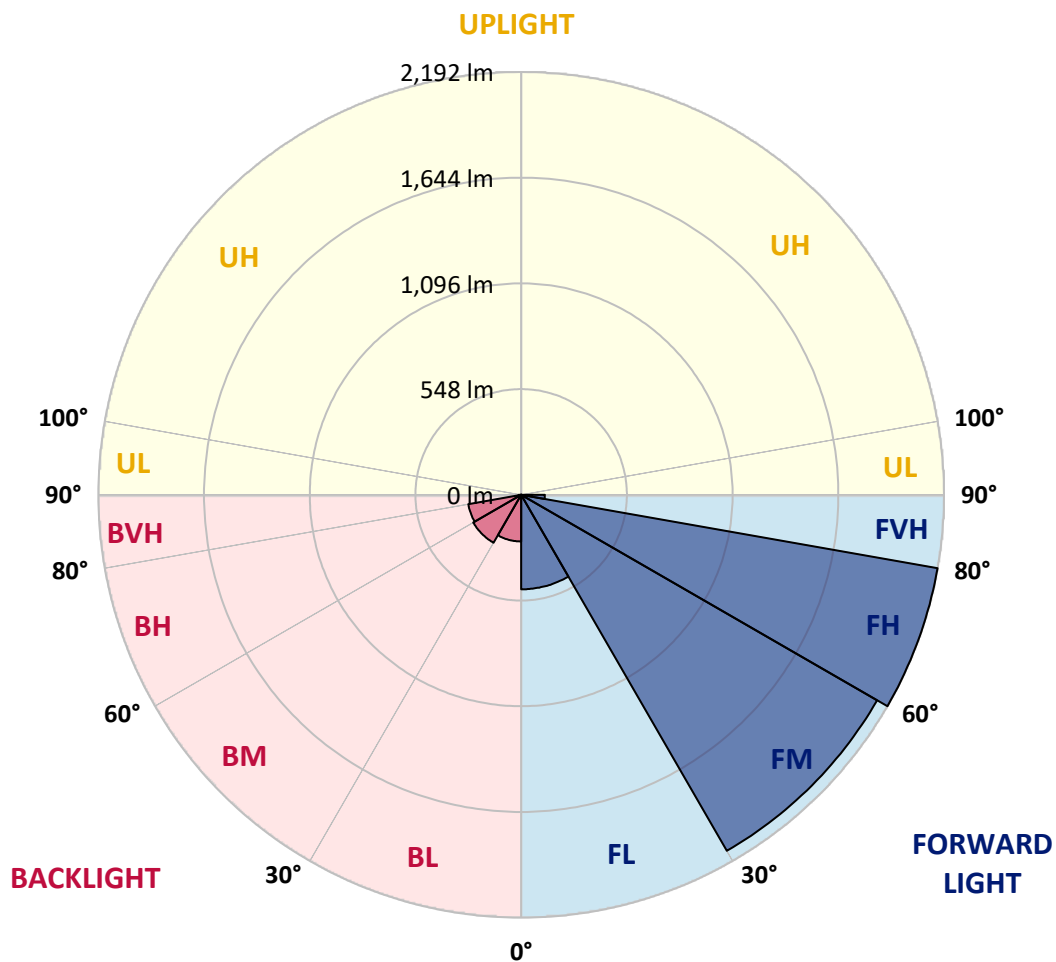
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	489.8	8.5			
FM	(30°-60°)	2130.7	37.0			
FH	(60°-80°)	2191.8	38.1			G2/5000
FVH	(80°-90°)	123.1	2.1			G2/225
BL	(0°-30°)	242.0	4.2	B1/500		
BM	(30°-60°)	286.8	5.0	B1/1000		
BH	(60°-80°)	278.4	4.8	B1/500		G1/500
BVH	(80°-90°)	13.9	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°	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8
2.5°	1507.8	1511.9	1511.9	1508.7	1506.7	1496.0	1489.7	1485.3	1477.6	1463.2	1450.4
5°	1453.9	1461.7	1465.0	1466.6	1476.2	1472.9	1473.2	1470.3	1463.6	1448.1	1427.0
7.5°	1355.1	1356.5	1362.5	1372.4	1395.6	1412.0	1425.3	1427.8	1426.2	1414.9	1385.4
10°	1257.5	1260.2	1267.1	1284.1	1306.3	1329.6	1358.3	1370.3	1379.1	1375.3	1338.0
12.5°	1176.8	1177.1	1185.0	1204.4	1229.2	1258.3	1297.5	1315.9	1336.9	1345.5	1303.8
15°	1098.8	1104.0	1111.5	1135.1	1165.7	1202.7	1247.7	1273.1	1300.8	1325.2	1277.2
17.5°	1039.9	1043.9	1048.3	1067.8	1103.3	1149.6	1205.2	1232.6	1269.0	1306.3	1249.9
20°	1007.4	1008.8	1005.6	1015.2	1045.0	1094.9	1159.4	1192.3	1235.9	1288.3	1221.9
22.5°	1000.7	1000.7	988.6	986.7	1000.0	1042.0	1112.2	1152.4	1205.5	1275.8	1196.7
25°	1031.8	1029.5	1006.6	985.6	980.8	1002.1	1067.1	1116.7	1179.7	1275.4	1177.9
27.5°	1090.5	1087.5	1059.0	1023.6	992.9	983.7	1032.4	1083.0	1159.4	1287.9	1168.2
30°	1163.5	1162.3	1133.7	1089.3	1038.7	991.1	1018.8	1065.7	1145.8	1311.2	1167.9
32.5°	1243.7	1238.5	1220.6	1176.4	1110.8	1032.2	1026.9	1066.4	1142.0	1345.1	1176.4
35°	1328.9	1325.2	1320.8	1276.1	1202.2	1104.5	1062.8	1091.9	1160.3	1392.4	1200.5
37.5°	1437.4	1433.3	1440.7	1392.0	1311.2	1199.2	1123.3	1142.9	1197.1	1461.1	1245.1
40°	1630.5	1618.7	1597.9	1523.0	1438.1	1315.6	1210.7	1213.7	1260.2	1552.9	1316.6
42.5°	1947.5	1909.4	1807.3	1669.6	1572.2	1450.7	1324.8	1310.7	1347.3	1674.4	1420.8
45°	2265.3	2222.5	2049.8	1829.4	1710.9	1595.7	1465.9	1432.2	1455.9	1815.7	1554.7
47.5°	2470.6	2449.6	2254.7	1989.2	1856.3	1753.8	1627.1	1571.8	1588.7	1975.9	1720.2
50°	2530.7	2512.6	2359.5	2114.4	1993.7	1944.7	1826.9	1753.3	1756.2	2163.1	1918.4
52.5°	2485.7	2478.3	2376.8	2191.9	2119.9	2145.7	2103.3	2001.1	1976.7	2368.3	2133.1
55°	2425.6	2428.1	2389.0	2269.7	2248.4	2333.3	2464.9	2382.8	2279.4	2582.1	2357.0
57.5°	2236.2	2238.0	2340.7	2418.1	2493.4	2596.1	2746.7	2712.1	2591.6	2812.8	2607.5
60°	1800.7	1814.9	2043.5	2387.5	2773.6	3114.0	3150.9	3091.1	2923.9	3078.5	2933.4
62.5°	1286.5	1299.3	1563.9	2072.7	2740.8	3700.2	3897.2	3659.5	3374.6	3476.1	3391.9
65°	675.9	673.6	878.5	1432.2	2308.6	3836.0	5073.3	4668.8	4133.9	4022.8	3834.9
67.5°	377.6	389.9	469.2	722.3	1504.7	3376.0	5824.5	5943.6	5189.6	4456.5	3815.7
69°	349.3	353.3	406.5	558.4	980.8	2785.5	5759.9	6328.6	5634.8	4458.3	3569.9
70°	339.2	343.6	392.0	514.5	823.8	2282.4	5524.8	6283.6	5743.0	4359.5	3346.1
72.5°	304.2	310.1	356.9	462.4	694.3	1176.4	4450.3	5378.2	5202.2	3810.2	2594.7
75°	259.5	269.4	340.4	459.3	657.7	747.8	2967.8	4006.9	3871.8	2724.9	1472.1
77.5°	107.3	108.5	148.8	336.2	690.3	715.7	1595.0	2538.2	2246.9	1194.8	443.4
80°	74.9	73.4	74.2	98.2	556.9	720.5	818.4	1290.9	1003.2	315.2	207.5
82.5°	63.2	62.4	65.3	61.7	188.6	817.5	684.4	672.9	472.5	169.8	99.0
85°	41.7	40.7	53.4	56.1	89.7	649.3	736.0	528.9	352.1	90.8	42.1
87.5°	20.3	20.8	30.6	38.0	47.6	205.6	705.0	418.3	272.0	39.4	17.0
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°	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8	1468.8
2.5°	1445.2	1434.1	1424.2	1411.5	1402.0	1393.8	1382.8	1382.4	1380.5	1383.1	1383.8
5°	1413.0	1394.6	1366.5	1335.2	1313.1	1283.9	1255.4	1245.8	1235.1	1234.0	1237.3
7.5°	1364.6	1335.9	1287.9	1239.9	1192.0	1142.9	1096.3	1072.7	1049.8	1042.8	1046.0
10°	1310.7	1274.2	1200.8	1122.5	1055.0	981.8	911.1	865.2	823.6	805.8	810.2
12.5°	1268.6	1222.1	1118.7	1017.3	916.2	811.3	717.9	627.6	559.3	528.7	530.4
15°	1232.6	1173.0	1042.0	907.0	780.4	636.8	507.3	402.4	342.6	320.3	319.6
17.5°	1193.4	1121.4	961.9	804.3	640.0	462.4	339.6	277.5	254.0	246.6	246.6
20°	1151.6	1068.3	878.2	692.6	492.5	323.0	255.5	231.5	222.6	220.4	220.1
22.5°	1112.9	1016.3	794.0	573.3	356.2	245.1	217.4	208.1	206.7	208.5	208.5
25°	1082.3	970.3	708.8	447.7	259.2	205.3	193.4	192.2	197.8	204.5	205.6
27.5°	1059.5	929.4	624.5	327.1	203.7	178.7	174.6	179.4	192.2	205.6	208.1
30°	1043.6	894.4	523.8	235.1	169.8	156.6	158.3	166.8	186.4	206.7	212.3
32.5°	1036.6	866.0	422.4	180.5	145.0	137.7	142.6	153.6	173.8	194.2	200.9
35°	1043.1	845.3	328.5	149.8	127.0	121.5	127.0	138.3	151.8	161.7	165.7
37.5°	1067.1	837.8	247.4	132.9	115.2	109.7	114.1	121.8	127.6	131.4	133.3
40°	1117.8	845.7	193.8	124.1	108.5	102.2	103.3	107.1	111.1	114.1	114.4
42.5°	1198.2	871.1	172.4	120.7	104.5	96.4	94.5	97.0	101.5	105.6	106.3
45°	1305.2	913.5	170.1	121.8	102.6	91.5	87.9	90.4	96.4	102.9	104.2
47.5°	1443.7	980.8	180.5	127.6	103.8	88.9	83.5	86.0	93.8	102.6	104.2
50°	1607.5	1073.8	199.8	136.6	108.9	88.9	81.6	83.8	91.8	101.9	103.3
52.5°	1800.7	1203.4	219.6	145.4	116.3	92.3	82.4	81.9	89.3	98.5	100.4
55°	2013.6	1364.3	238.8	153.3	120.4	96.7	84.1	79.7	85.7	93.1	94.5
57.5°	2264.3	1584.7	272.5	160.5	122.6	100.0	86.3	77.6	80.8	86.0	87.1
60°	2604.1	1908.4	337.8	173.2	126.7	101.5	86.7	75.3	74.9	78.6	79.1
62.5°	3047.5	2287.4	400.1	187.8	134.7	101.9	85.2	73.8	70.2	71.2	71.2
65°	3362.7	2427.0	382.0	200.4	142.1	101.5	83.8	72.8	66.5	64.6	64.6
67.5°	3183.4	2143.8	324.5	203.7	142.8	97.5	80.5	70.2	63.2	58.7	58.7
69°	2919.9	1879.3	297.9	197.8	136.9	92.6	76.7	67.6	60.9	55.8	55.8
70°	2704.9	1678.8	281.7	190.8	130.0	88.7	73.4	64.9	58.7	54.3	53.9
72.5°	2019.5	1120.2	240.7	164.6	106.7	74.9	64.1	57.9	52.8	49.9	49.9
75°	1065.7	561.4	197.1	134.3	82.4	59.7	52.8	48.7	45.8	45.5	45.0
77.5°	349.3	254.0	141.8	101.1	60.5	46.5	42.1	39.4	39.2	40.7	40.7
80°	188.6	151.8	91.2	68.4	42.1	34.8	32.5	32.1	33.1	35.5	35.5
82.5°	91.5	74.9	54.3	42.1	28.7	25.5	25.5	25.8	27.3	30.0	30.0
85°	39.4	35.5	31.4	23.6	17.7	15.9	18.1	19.9	21.0	22.8	23.6
87.5°	18.9	16.6	14.5	9.3	7.7	8.2	9.6	11.8	14.1	15.5	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

(END OF REPORT)