

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: McGRAW-EDISON

Report Number: P451864

Luminaire Tested: **GALN-SA2D-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10402 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

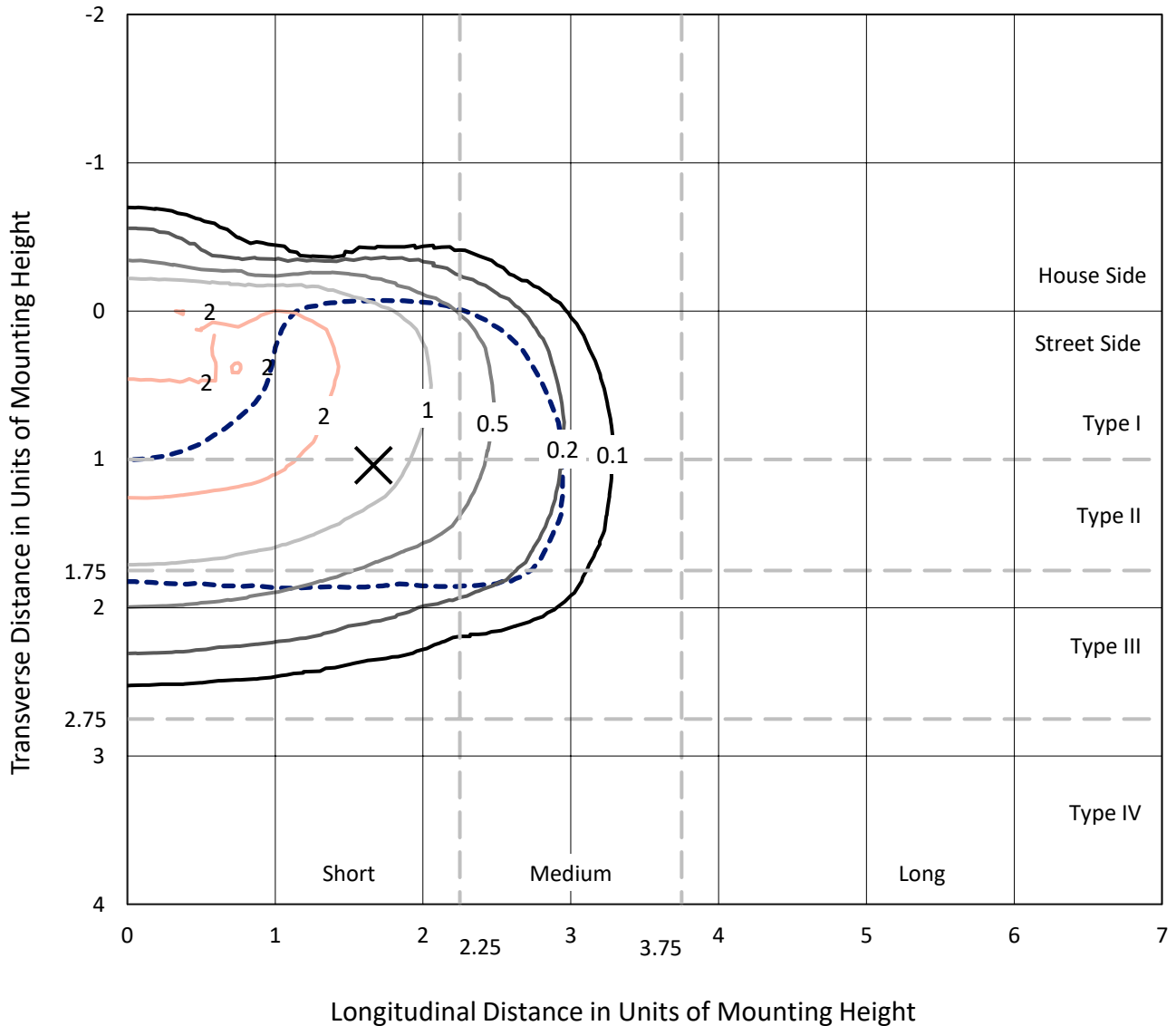
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

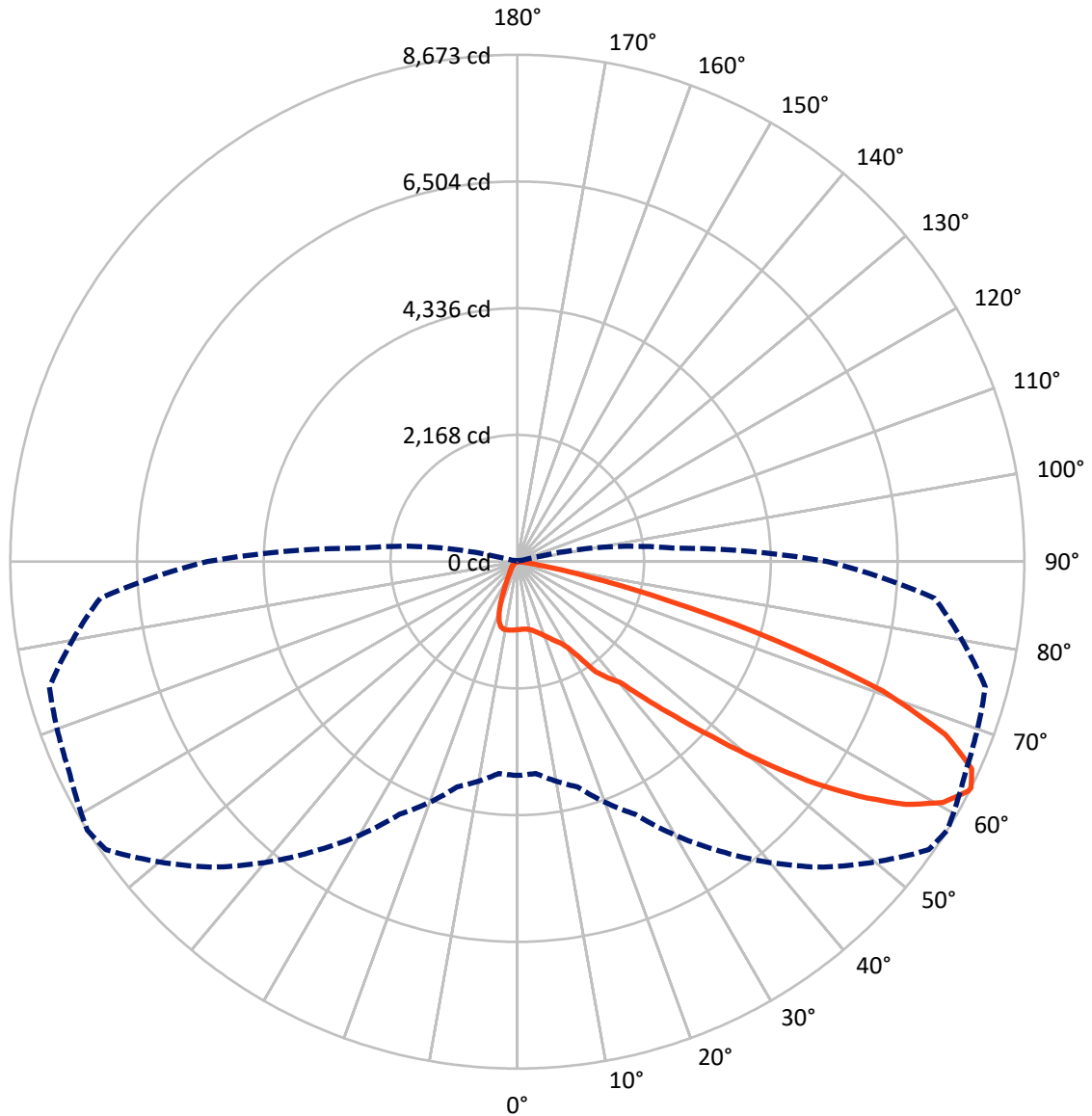
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1077.1	0.0	1077.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9324.9	0.0	9324.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	10402.0	0.0	10402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.0
10°-20°	296.9	2.9
20°-30°	515.3	5.0
30°-40°	947.0	9.1
40°-50°	1782.6	17.1
50°-60°	3049.1	29.3
60°-70°	2919.5	28.1
70°-80°	744.5	7.2
80°-90°	38.1	0.4
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°	10402.0	100.0
0°-180°	10402.0	100.0

Coefficient of Utilization



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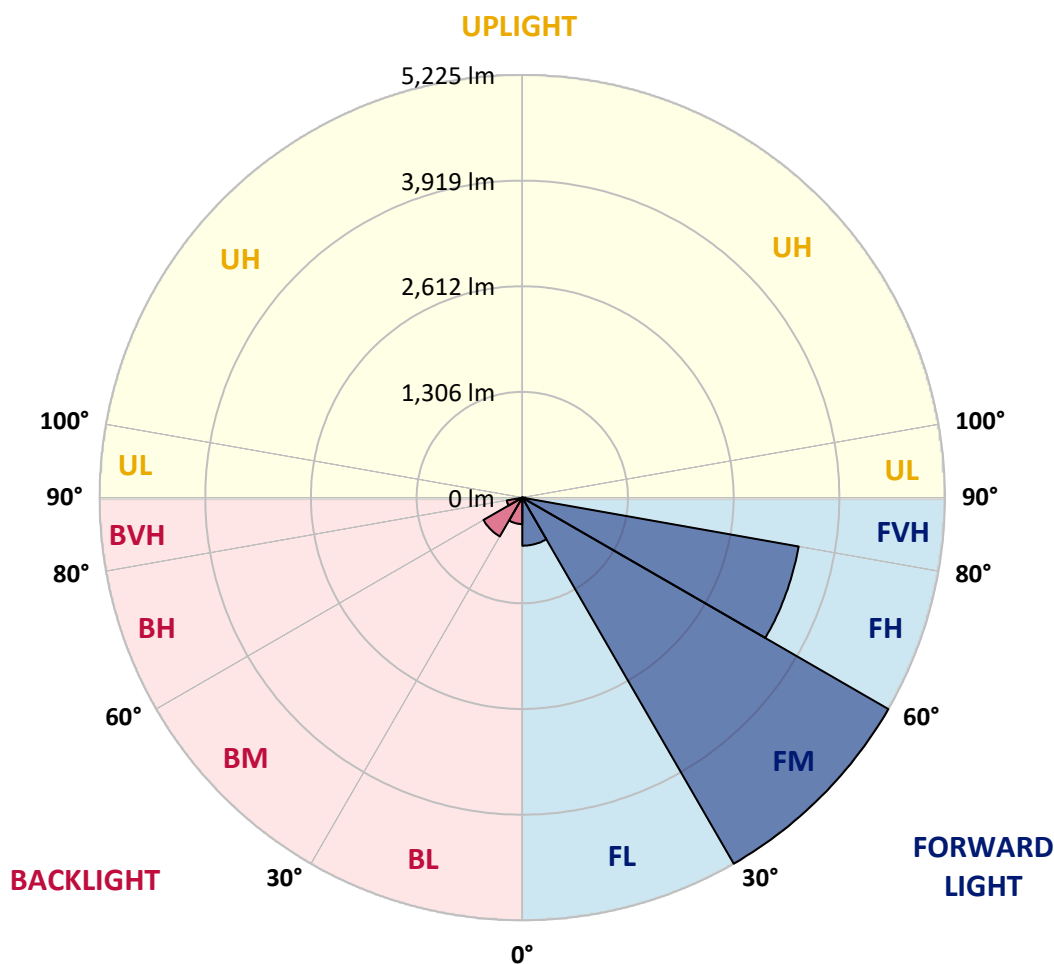
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.6	5.7			
FM	(30°-60°)	5224.7	50.2			
FH	(60°-80°)	3469.0	33.3			G2/5000
FVH	(80°-90°)	36.6	0.4			G1/100
BL	(0°-30°)	326.6	3.1	B1/500		
BM	(30°-60°)	554.0	5.3	B1/1000		
BH	(60°-80°)	195.0	1.9	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5
2.5°	1135.6	1139.5	1143.4	1145.0	1150.4	1155.9	1159.8	1159.1	1165.3	1168.5	1168.5
5°	1090.1	1090.1	1100.3	1109.7	1125.4	1141.0	1155.9	1159.1	1170.8	1181.8	1185.7
7.5°	1051.8	1054.1	1062.0	1079.2	1100.3	1127.7	1157.5	1164.5	1184.9	1209.2	1219.4
10°	1033.8	1035.3	1045.5	1063.5	1090.1	1127.7	1169.2	1182.6	1213.9	1252.3	1266.4
12.5°	1029.8	1032.2	1042.4	1062.7	1093.3	1138.7	1195.1	1209.2	1254.6	1303.9	1325.1
15°	1036.9	1038.5	1048.6	1070.6	1104.2	1158.3	1229.5	1249.1	1303.2	1360.3	1387.7
17.5°	1062.0	1060.4	1067.4	1085.4	1123.0	1182.6	1271.1	1294.5	1358.0	1436.3	1454.3
20°	1168.5	1158.3	1152.0	1136.4	1151.2	1217.0	1321.2	1355.6	1433.9	1513.8	1526.4
22.5°	1397.9	1375.2	1330.6	1269.5	1222.5	1264.0	1381.5	1421.4	1522.4	1600.8	1600.8
25°	1690.0	1661.1	1616.4	1483.3	1368.2	1341.5	1449.6	1499.7	1618.8	1697.9	1672.0
27.5°	2055.8	2033.1	1946.1	1791.1	1614.9	1477.0	1528.7	1574.9	1704.1	1799.7	1745.6
30°	2353.4	2342.4	2271.1	2132.5	1938.3	1737.0	1675.9	1706.5	1817.7	1928.1	1872.5
32.5°	2604.8	2604.8	2531.9	2402.7	2221.0	2042.5	1925.8	1947.7	2054.2	2181.9	2078.5
35°	2881.2	2871.8	2813.1	2690.1	2486.5	2329.1	2281.3	2311.1	2407.4	2502.2	2247.6
37.5°	3171.8	3168.6	3107.5	2988.5	2822.5	2624.3	2512.3	2520.2	2569.5	2627.5	2445.8
40°	3487.4	3492.1	3412.2	3338.6	3181.9	2979.1	2764.5	2715.2	2761.4	2925.1	2811.5
42.5°	3860.1	3849.2	3814.7	3714.5	3588.4	3467.0	3209.3	3191.3	3232.1	3407.5	3284.5
45°	4293.2	4308.9	4249.4	4193.8	4109.2	4008.2	3792.8	3761.5	3806.1	4078.6	3904.0
47.5°	4727.1	4712.2	4750.6	4740.4	4785.8	4710.6	4520.3	4456.1	4563.4	4821.9	4565.0
50°	5057.6	5074.0	5153.9	5270.6	5465.6	5507.9	5325.4	5303.5	5351.3	5517.3	5156.3
52.5°	5272.2	5327.0	5452.3	5752.2	6103.9	6377.2	6238.6	6226.8	6207.2	6251.9	5721.7
55°	5412.4	5468.0	5631.6	6073.3	6678.7	7122.7	7129.8	7079.7	6950.5	6918.3	6250.3
57.5°	5326.2	5337.2	5570.5	6161.0	6997.4	7654.5	7884.8	7834.6	7595.8	7474.4	6717.1
60°	4787.4	4810.1	5135.1	5829.0	6858.8	7828.4	8385.2	8362.5	8100.9	7963.9	7080.5
62.5°	3832.7	3898.5	4232.9	5006.7	6214.3	7535.5	8588.0	8652.2	8448.6	8259.9	7194.8
63°	3657.3	3636.2	3989.4	4767.0	6043.6	7390.6	8591.2	8672.6	8464.3	8288.1	7163.5
65°	2707.3	2770.8	3000.2	3759.1	5029.4	6716.3	8397.7	8541.8	8406.3	8163.6	6816.5
67.5°	1520.1	1517.0	1770.7	2459.9	3520.3	5268.3	7593.4	7898.1	7869.9	7325.6	5650.4
70°	744.0	755.7	859.9	1275.0	2041.7	3634.6	6309.8	6638.8	6648.9	5753.8	3907.1
72.5°	336.8	342.2	416.6	621.0	1049.4	1935.2	4348.0	4662.1	4604.1	3666.7	2157.6
75°	177.8	189.5	229.5	312.5	505.9	798.0	2365.1	2669.0	2547.6	1675.2	794.1
77.5°	131.6	135.5	155.8	198.9	271.0	310.9	1020.4	1213.9	1137.1	606.2	263.1
80°	96.3	99.5	115.9	141.0	170.7	158.2	384.5	440.9	395.5	206.0	80.7
82.5°	58.7	59.5	84.6	104.9	107.3	88.5	126.9	136.3	142.5	115.9	43.9
85°	21.1	26.6	57.2	76.0	63.4	44.6	53.3	58.7	64.2	73.6	25.8
87.5°	2.3	3.1	27.4	36.8	18.0	16.4	19.6	21.9	23.5	27.4	12.5
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°	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5
2.5°	1171.6	1174.7	1172.4	1168.5	1167.7	1165.3	1160.6	1160.6	1160.6	1162.2	1160.6
5°	1188.8	1191.2	1185.7	1177.9	1169.2	1158.3	1146.5	1139.5	1138.7	1137.1	1133.2
7.5°	1221.7	1224.8	1212.3	1193.5	1170.0	1143.4	1118.3	1094.8	1083.9	1075.3	1075.3
10°	1269.5	1272.6	1247.6	1213.9	1166.9	1112.9	1053.3	999.3	957.0	937.4	932.7
12.5°	1326.7	1328.2	1286.7	1228.0	1150.4	1046.3	919.4	801.2	718.9	681.3	677.4
15°	1389.3	1378.3	1323.5	1233.5	1103.5	909.2	690.0	545.1	459.7	434.6	444.0
17.5°	1452.7	1432.4	1351.7	1224.8	997.7	690.0	463.6	372.0	345.4	338.3	338.3
20°	1512.3	1484.1	1372.1	1187.3	814.5	475.4	343.8	321.9	317.2	312.5	313.3
22.5°	1571.8	1528.7	1390.1	1103.5	606.9	339.9	307.8	300.7	294.5	288.2	287.4
25°	1629.7	1570.2	1397.1	948.4	413.5	292.1	281.2	271.8	259.2	252.2	250.6
27.5°	1690.0	1620.3	1392.4	752.6	301.5	261.6	250.6	237.3	222.4	209.9	209.9
30°	1805.9	1715.9	1376.0	541.2	253.7	230.2	216.1	195.0	178.6	166.0	165.2
32.5°	1964.1	1840.4	1319.6	380.6	225.5	202.8	181.7	158.2	141.0	131.6	131.6
35°	2105.1	1965.7	1213.9	280.4	202.8	176.2	150.4	127.7	114.3	108.1	105.7
37.5°	2319.7	2149.0	1068.2	227.9	180.9	152.7	126.1	104.9	94.0	89.3	89.3
40°	2641.6	2372.9	889.7	199.7	159.8	130.0	104.9	88.5	79.9	74.4	74.4
42.5°	3041.0	2647.0	708.8	179.3	140.2	112.0	87.7	75.2	67.4	63.4	62.7
45°	3543.8	2936.0	545.9	160.5	124.5	95.5	74.4	63.4	55.6	53.3	54.0
47.5°	4068.5	3190.6	422.9	144.1	108.1	80.7	63.4	54.8	49.3	46.2	46.2
50°	4516.4	3366.0	321.1	125.3	95.5	68.1	55.6	49.3	44.6	43.1	42.3
52.5°	4890.8	3416.9	245.9	108.9	83.8	58.7	49.3	44.6	40.7	38.4	38.4
55°	5209.5	3372.2	192.7	91.6	70.5	50.9	43.9	39.9	35.2	32.9	32.1
57.5°	5395.9	3228.9	147.2	76.0	57.2	42.3	38.4	33.7	28.2	24.3	24.3
60°	5489.9	3020.6	112.8	62.7	43.9	33.7	31.3	25.1	19.6	16.4	15.7
62.5°	5377.1	2744.2	85.4	49.3	32.9	25.1	21.1	18.0	12.5	9.4	9.4
63°	5307.4	2664.3	82.2	47.0	30.5	23.5	19.6	16.4	11.0	8.6	7.8
65°	4838.3	2315.8	67.4	37.6	24.3	16.4	13.3	11.7	7.8	3.9	3.1
67.5°	3842.1	1771.5	53.3	28.2	17.2	11.7	7.8	7.0	2.3	0.0	0.0
70°	2597.7	1144.2	41.5	20.4	11.7	7.0	3.9	3.1	0.8	0.0	0.0
72.5°	1354.8	586.6	32.1	14.9	7.0	4.7	2.3	0.8	0.0	0.0	0.0
75°	479.3	199.7	23.5	9.4	4.7	2.3	0.8	0.0	0.0	0.0	0.0
77.5°	144.9	74.4	14.9	7.0	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	50.9	27.4	8.6	4.7	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	13.3	5.5	3.9	2.3	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.1	8.6	4.7	3.9	2.3	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.3	4.7	3.9	3.1	1.6	0.8	0.0	0.0	0.0	0.0
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)