

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: P450836

Luminaire Tested: **GALN-SA1C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4676 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

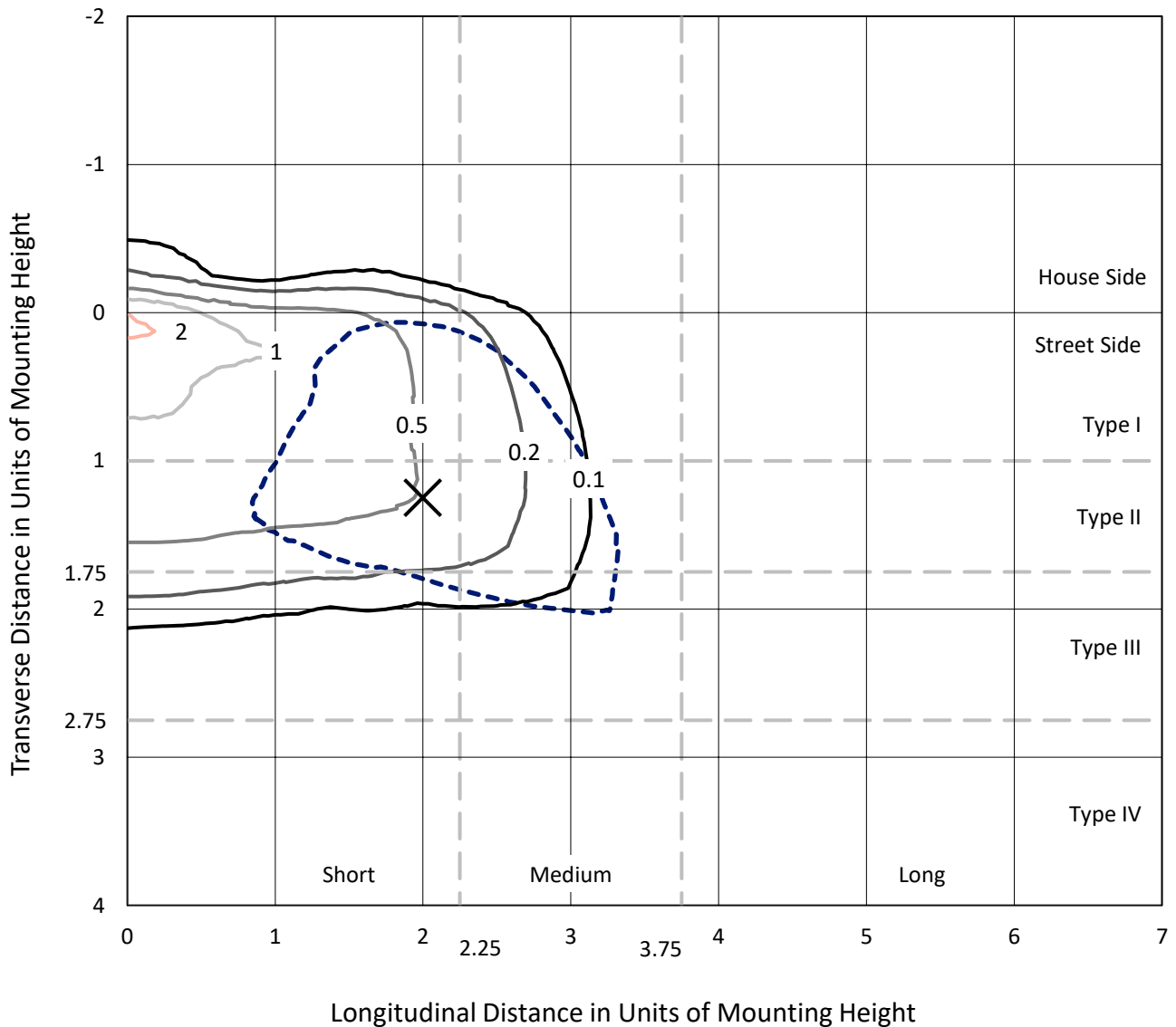
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

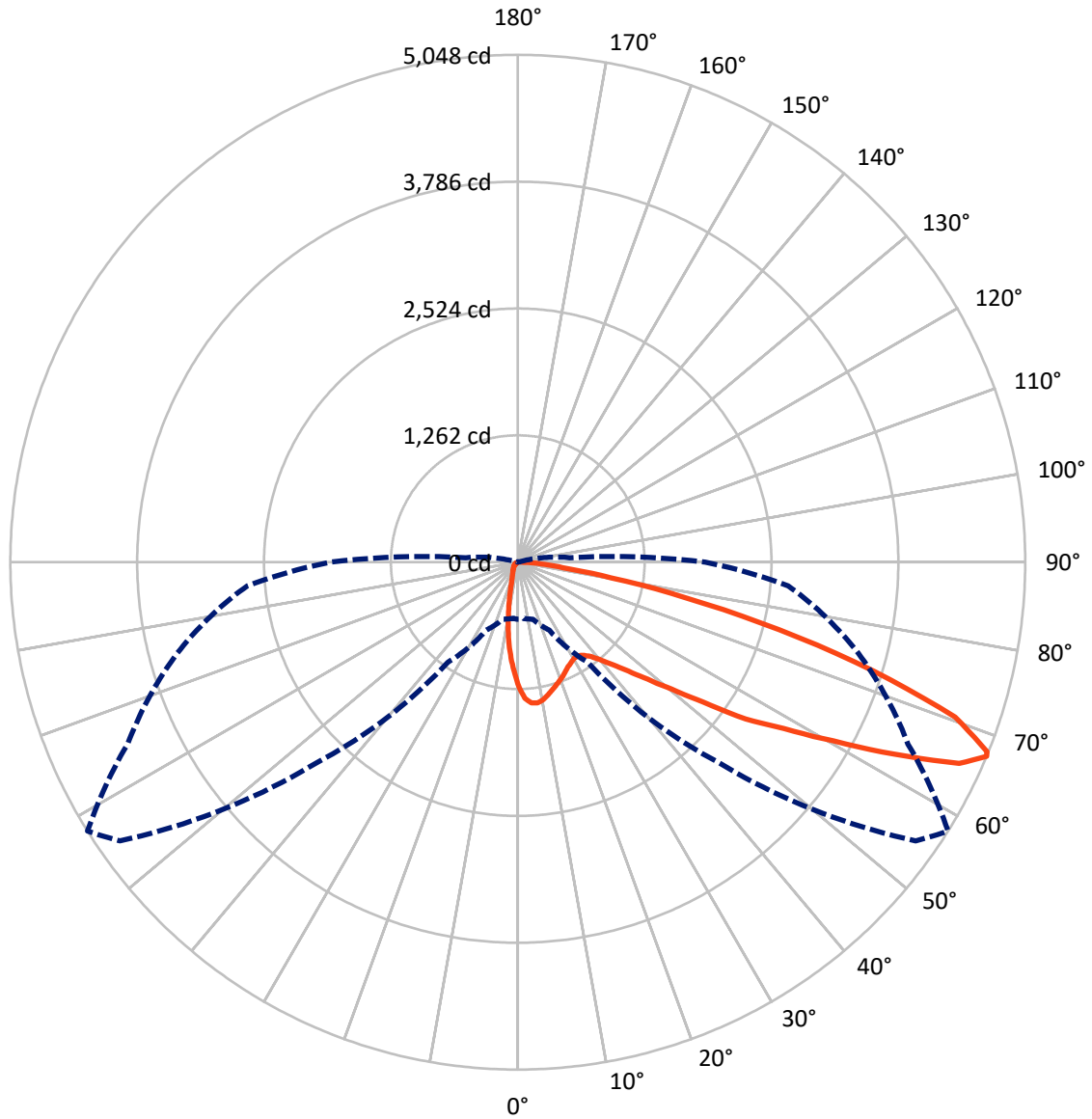
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	337.4	0.0	337.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4338.6	0.0	4338.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	4676.0	0.0	4676.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	2.2
10°-20°	217.2	4.6
20°-30°	294.4	6.3
30°-40°	408.3	8.7
40°-50°	651.2	13.9
50°-60°	1125.6	24.1
60°-70°	1285.8	27.5
70°-80°	536.1	11.5
80°-90°	56.8	1.2
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°	4676.0	100.0
0°-180°	4676.0	100.0



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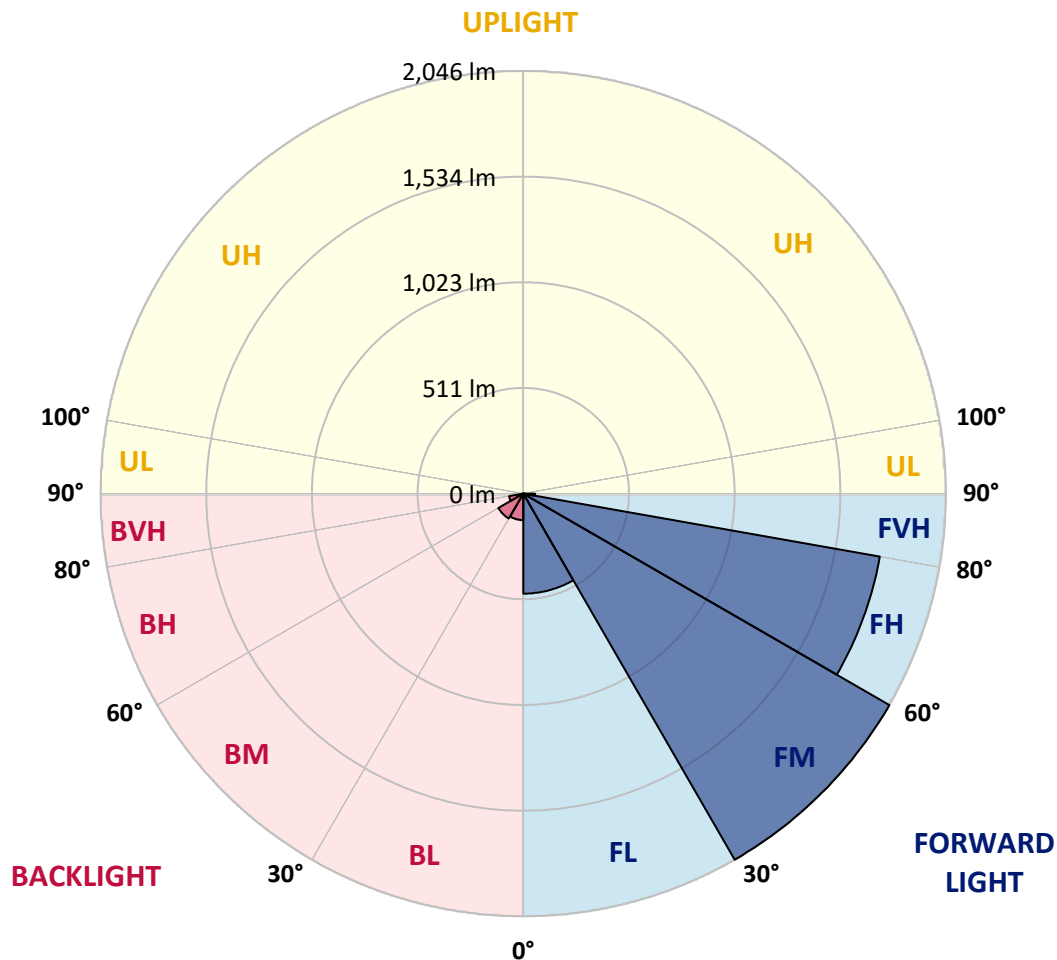
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.1	10.4			
FM (30°-60°)	2045.9	43.8			
FH (60°-80°)	1752.1	37.5			G1/1800
FVH (80°-90°)	56.4	1.2			G1/100
BL (0°-30°)	128.1	2.7	B1/500		
BM (30°-60°)	139.1	3.0	B0/220		
BH (60°-80°)	69.8	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6
2.5°	1438.6	1440.8	1432.7	1426.1	1409.2	1391.1	1367.1	1354.2	1332.4	1294.6	1252.7
5°	1472.4	1475.2	1473.9	1472.4	1465.8	1448.3	1417.7	1406.4	1374.2	1312.7	1237.1
7.5°	1397.4	1407.7	1408.9	1421.1	1432.7	1434.2	1422.7	1414.2	1384.6	1312.4	1209.3
10°	1298.0	1304.9	1314.9	1328.9	1356.7	1379.9	1391.1	1389.9	1372.7	1302.7	1176.8
12.5°	1197.7	1201.4	1216.8	1240.8	1274.9	1314.2	1344.2	1350.2	1350.5	1291.1	1149.6
15°	1111.5	1109.9	1121.8	1149.6	1197.4	1246.8	1300.5	1309.9	1324.9	1279.9	1124.3
17.5°	1037.7	1045.8	1047.7	1078.3	1122.4	1186.4	1254.9	1271.4	1301.4	1270.2	1103.3
20°	992.1	996.5	1000.5	1017.7	1057.4	1124.9	1212.1	1234.9	1279.6	1261.4	1079.9
22.5°	978.7	981.5	978.0	983.3	1011.5	1071.5	1165.5	1195.8	1258.6	1253.3	1060.8
25°	989.0	991.8	983.7	977.4	987.1	1028.0	1120.5	1157.4	1241.8	1251.8	1046.5
27.5°	1014.0	1019.3	1008.0	996.8	991.2	1004.6	1085.2	1128.0	1230.2	1259.3	1039.9
30°	1053.0	1056.1	1047.7	1034.0	1021.1	1007.7	1066.8	1107.7	1227.1	1276.7	1039.3
32.5°	1095.5	1102.1	1097.4	1088.3	1071.8	1039.9	1072.1	1108.3	1234.6	1302.1	1047.1
35°	1148.0	1155.5	1159.9	1158.0	1136.8	1097.1	1105.8	1136.4	1254.6	1348.6	1068.3
37.5°	1199.6	1206.1	1230.8	1239.3	1220.5	1183.0	1171.4	1191.8	1298.6	1409.5	1106.8
40°	1258.6	1267.4	1302.1	1334.2	1325.2	1285.8	1264.6	1281.4	1366.1	1501.4	1179.6
42.5°	1315.2	1330.8	1383.6	1440.5	1448.9	1404.9	1390.8	1396.4	1466.1	1633.6	1281.1
45°	1395.5	1410.2	1478.3	1555.5	1595.2	1560.8	1546.4	1545.5	1603.3	1819.5	1445.8
47.5°	1511.4	1524.5	1604.8	1681.1	1751.7	1756.4	1729.2	1738.6	1775.8	2037.0	1647.6
50°	1653.6	1684.5	1737.3	1816.7	1911.1	1987.3	1995.7	1983.2	2015.1	2288.8	1890.1
52.5°	1860.1	1872.0	1920.4	1985.7	2096.4	2225.7	2326.0	2308.8	2298.8	2528.8	2135.1
55°	2014.2	2030.1	2105.4	2195.1	2357.3	2527.9	2745.4	2751.3	2625.1	2759.4	2374.8
57.5°	1967.6	1992.0	2106.0	2286.3	2642.9	2954.7	3116.6	3120.6	2926.9	2983.5	2645.4
60°	1728.6	1740.1	1903.6	2144.2	2667.2	3417.2	3643.1	3610.3	3234.1	3234.1	2884.4
62.5°	1225.8	1243.9	1376.4	1730.5	2408.8	3577.8	4273.6	4205.8	3657.1	3473.7	3026.9
65°	783.4	765.9	853.7	1092.4	1794.5	3340.6	4822.6	4826.7	4055.2	3569.6	2949.1
67°	567.4	560.6	585.9	746.8	1216.8	2808.2	4834.2	5048.2	4284.0	3509.0	2700.4
67.5°	519.0	524.3	542.8	673.7	1105.5	2555.4	4781.7	5035.1	4335.5	3472.5	2610.4
70°	393.4	384.3	404.3	476.5	662.7	1612.0	4113.3	4618.0	4271.5	3109.7	2085.7
72.5°	289.3	288.4	316.2	389.6	510.3	858.7	3087.8	3702.8	3489.7	2367.9	1313.3
75°	195.3	204.0	248.4	325.6	462.5	556.8	2105.1	2686.3	2422.6	1344.6	536.8
77.5°	111.2	111.9	160.0	261.5	415.3	448.1	1247.4	1711.4	1282.4	447.1	159.4
80°	48.1	52.8	79.4	190.0	344.3	396.8	715.2	940.5	518.7	94.7	51.6
82.5°	17.8	20.9	35.0	116.9	251.2	326.8	432.1	449.0	175.9	33.4	32.2
85°	0.0	0.6	12.8	54.7	130.9	145.9	288.7	266.2	77.8	15.9	20.9
87.5°	0.0	0.0	0.0	5.6	17.2	54.4	89.7	100.0	18.7	5.6	5.0
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°	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6	1239.6
2.5°	1230.2	1209.9	1158.9	1108.0	1070.2	1038.6	991.2	965.2	951.5	931.2	932.4
5°	1199.3	1158.0	1068.3	975.5	900.5	827.4	739.9	704.6	674.9	658.1	646.8
7.5°	1153.3	1092.4	959.6	835.9	720.6	592.8	496.8	432.8	389.6	373.7	358.4
10°	1103.0	1022.1	849.3	677.7	517.8	385.9	304.7	245.9	225.0	205.6	207.5
12.5°	1056.5	958.0	748.1	534.9	362.8	245.3	191.2	167.2	160.3	158.1	158.1
15°	1018.3	896.8	639.3	402.1	248.7	176.2	153.1	146.5	144.0	143.4	143.4
17.5°	977.7	838.7	541.2	297.2	180.9	147.5	139.7	135.3	134.4	133.7	133.7
20°	941.5	780.2	448.1	221.2	146.2	132.8	127.8	125.0	124.1	123.4	123.7
22.5°	907.1	728.4	360.6	167.2	128.7	120.9	115.9	113.1	111.2	109.7	110.0
25°	876.5	678.4	290.0	136.9	115.9	109.1	104.1	100.0	95.9	94.1	93.7
27.5°	854.9	634.6	225.9	117.2	104.4	96.9	90.6	85.6	80.3	77.5	76.9
30°	837.1	590.3	178.7	103.4	92.8	85.6	77.8	70.6	65.0	62.2	60.9
32.5°	825.5	548.1	140.9	92.2	83.1	74.4	65.6	58.4	52.2	49.4	48.7
35°	823.7	512.8	115.3	82.8	74.4	65.0	55.9	48.1	42.8	40.0	39.4
37.5°	837.1	485.6	96.6	75.3	67.2	56.9	46.9	39.7	35.0	32.8	32.5
40°	873.0	468.4	83.7	69.1	60.6	49.4	40.0	33.7	29.1	26.9	26.9
42.5°	941.5	469.0	75.3	63.1	54.1	42.2	34.1	28.1	24.1	22.2	21.6
45°	1048.3	490.3	68.1	57.2	47.8	36.6	29.1	23.1	19.1	17.5	17.5
47.5°	1191.4	532.4	61.9	51.2	42.2	31.2	24.7	18.7	15.3	13.7	13.7
50°	1378.6	600.3	56.6	46.2	37.5	26.9	20.0	15.3	11.9	10.6	10.3
52.5°	1574.2	684.0	50.3	41.9	32.2	22.8	16.2	11.9	9.1	8.1	7.8
55°	1790.1	765.9	44.4	37.5	26.2	19.1	12.8	9.4	6.6	5.6	5.6
57.5°	2007.9	846.2	37.2	31.2	20.6	14.1	10.0	6.9	4.4	3.4	3.4
60°	2192.3	872.1	31.6	25.3	15.6	10.0	7.2	4.4	2.5	1.6	1.6
62.5°	2217.6	784.6	26.6	19.4	11.2	6.9	3.7	2.5	0.9	0.6	0.6
65°	2080.1	637.4	22.2	14.7	7.5	3.4	1.6	0.9	0.3	0.0	0.0
67°	1863.9	516.8	18.1	10.9	5.3	2.2	0.9	0.3	0.0	0.0	0.0
67.5°	1808.6	492.8	17.5	10.3	4.7	1.9	0.6	0.3	0.0	0.0	0.0
70°	1419.2	369.0	12.5	6.2	2.8	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	882.1	208.7	9.1	3.7	1.9	0.6	0.0	0.0	0.0	0.0	0.0
75°	333.4	73.1	6.2	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	103.7	27.8	3.7	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.0	10.6	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.6	4.4	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.6	0.3	0.0	0.0	0.0	0.0	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)