

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: P450488

Luminaire Tested: **GALN-SA1B-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450488
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-SA1B-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4763 lumens
Efficiency: N/A
Efficacy: 108.2 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

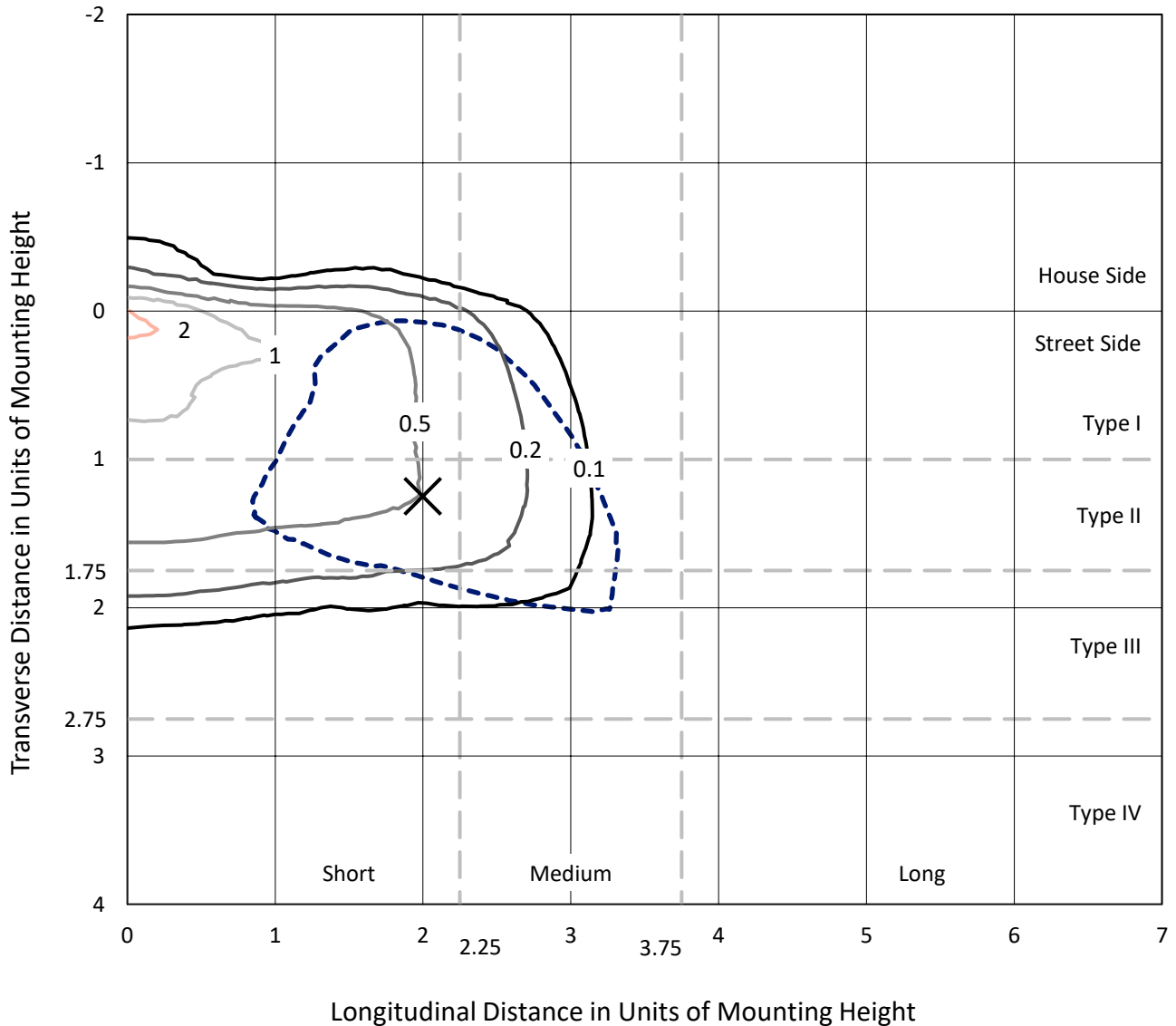
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

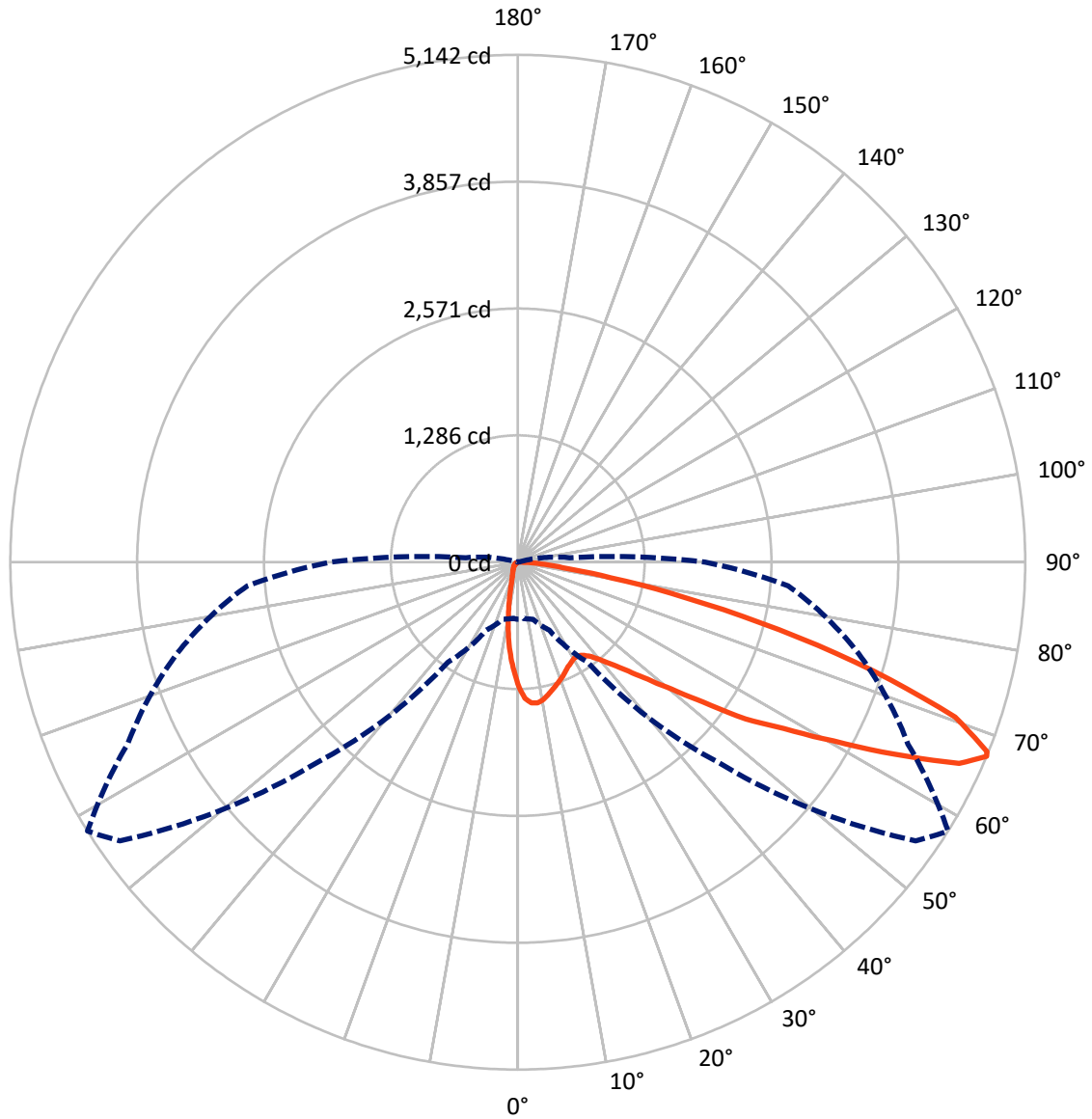
× Max cd
 - - - 1/2 Max cd



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	343.7	0.0	343.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4419.3	0.0	4419.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	4763.0	0.0	4763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	2.2
10°-20°	221.3	4.6
20°-30°	299.9	6.3
30°-40°	415.9	8.7
40°-50°	663.3	13.9
50°-60°	1146.6	24.1
60°-70°	1309.7	27.5
70°-80°	546.0	11.5
80°-90°	57.9	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°	4763.0	100.0
0°-180°	4763.0	100.0

Coefficient of Utilization



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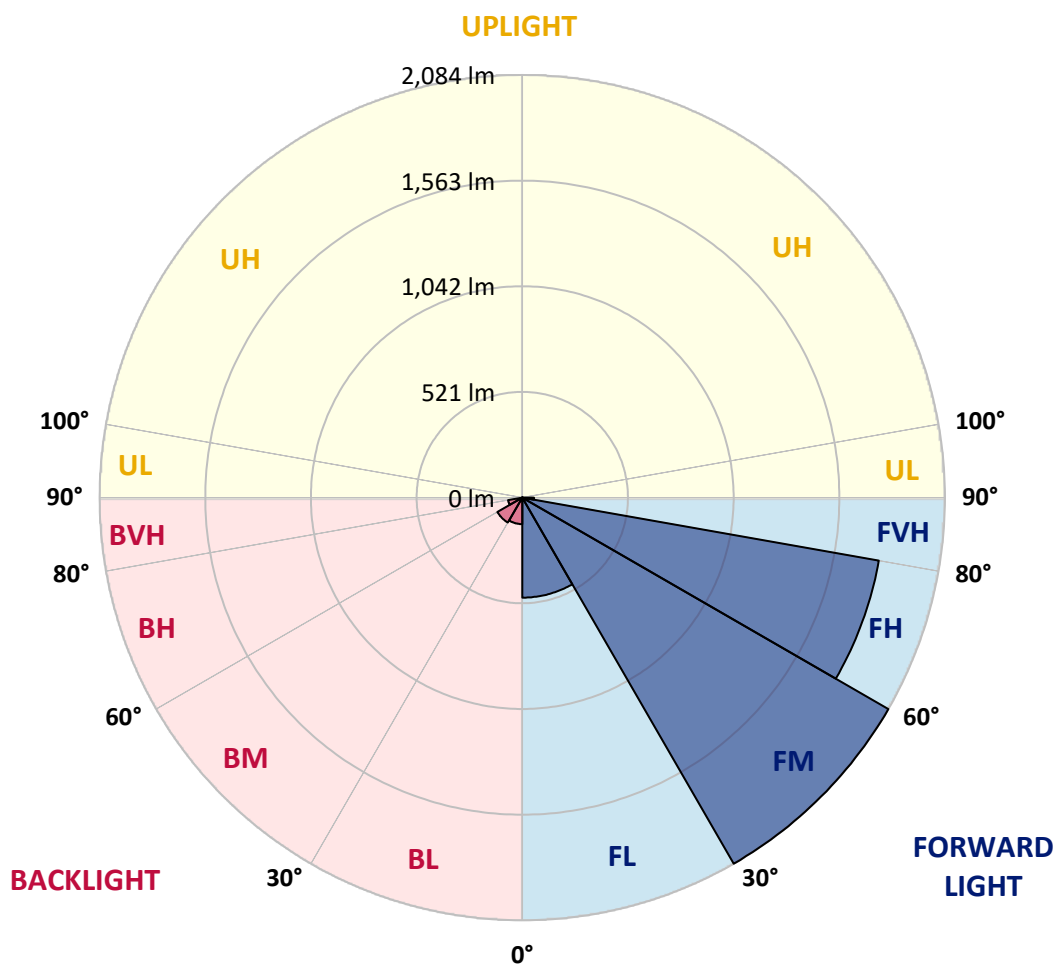
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.1	10.4			
FM (30°-60°)	2084.0	43.8			
FH (60°-80°)	1784.7	37.5			G1/1800
FVH (80°-90°)	57.5	1.2			G1/100
BL (0°-30°)	130.5	2.7	B1/500		
BM (30°-60°)	141.7	3.0	B0/220		
BH (60°-80°)	71.1	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°	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6
2.5°	1465.4	1467.6	1459.3	1452.6	1435.5	1417.0	1392.5	1379.4	1357.2	1318.6	1276.0
5°	1499.7	1502.6	1501.3	1499.7	1493.1	1475.2	1444.0	1432.6	1399.8	1337.1	1260.1
7.5°	1423.4	1433.9	1435.1	1447.5	1459.3	1460.9	1449.1	1440.5	1410.3	1336.8	1231.8
10°	1322.1	1329.1	1339.3	1353.7	1382.0	1405.5	1417.0	1415.7	1398.2	1326.9	1198.7
12.5°	1220.0	1223.8	1239.4	1263.9	1298.6	1338.7	1369.3	1375.3	1375.6	1315.1	1171.0
15°	1132.1	1130.5	1142.6	1171.0	1219.7	1269.9	1324.7	1334.2	1349.5	1303.7	1145.2
17.5°	1057.0	1065.3	1067.2	1098.4	1143.3	1208.5	1278.2	1295.1	1325.6	1293.8	1123.9
20°	1010.5	1015.0	1019.1	1036.6	1077.1	1145.8	1234.6	1257.9	1303.4	1284.9	1100.0
22.5°	996.9	999.7	996.2	1001.6	1030.3	1091.4	1187.2	1218.1	1282.0	1276.6	1080.6
25°	1007.4	1010.2	1002.0	995.6	1005.5	1047.2	1141.4	1178.9	1264.9	1275.0	1065.9
27.5°	1032.8	1038.2	1026.8	1015.3	1009.6	1023.3	1105.4	1149.0	1253.1	1282.7	1059.2
30°	1072.6	1075.8	1067.2	1053.2	1040.1	1026.5	1086.6	1128.3	1249.9	1300.5	1058.6
32.5°	1115.9	1122.6	1117.8	1108.6	1091.7	1059.2	1092.0	1128.9	1257.5	1326.3	1066.6
35°	1169.4	1177.0	1181.5	1179.6	1157.9	1117.5	1126.4	1157.6	1277.9	1373.7	1088.2
37.5°	1221.9	1228.6	1253.7	1262.3	1243.2	1205.0	1193.2	1213.9	1322.8	1435.8	1127.4
40°	1282.0	1291.0	1326.3	1359.1	1349.8	1309.7	1288.1	1305.3	1391.5	1529.3	1201.5
42.5°	1339.7	1355.6	1409.4	1467.3	1475.9	1431.0	1416.7	1422.4	1493.4	1664.0	1305.0
45°	1421.5	1436.4	1505.8	1584.4	1624.8	1589.8	1575.2	1574.2	1633.1	1853.4	1472.7
47.5°	1539.5	1552.9	1634.7	1712.4	1784.3	1789.1	1761.4	1770.9	1808.8	2074.9	1678.3
50°	1684.4	1715.9	1769.7	1850.5	1946.6	2024.3	2032.9	2020.1	2052.6	2331.4	1925.3
52.5°	1894.7	1906.8	1956.2	2022.7	2135.4	2267.1	2369.3	2351.8	2341.6	2575.9	2174.8
55°	2051.7	2067.9	2144.6	2235.9	2401.1	2574.9	2796.4	2802.5	2673.9	2810.8	2418.9
57.5°	2004.2	2029.1	2145.2	2328.9	2692.0	3009.7	3174.6	3178.7	2981.4	3039.0	2694.6
60°	1760.7	1772.5	1939.0	2184.1	2716.9	3480.7	3710.9	3677.4	3294.2	3294.2	2938.1
62.5°	1248.6	1267.1	1402.0	1762.6	2453.6	3644.3	4353.2	4284.1	3725.2	3538.3	3083.2
65°	797.9	780.1	869.5	1112.7	1827.9	3402.8	4912.4	4916.5	4130.7	3636.1	3004.0
67°	578.0	571.0	596.8	760.7	1239.4	2860.4	4924.2	5142.2	4363.7	3574.3	2750.6
67.5°	528.7	534.1	552.9	686.2	1126.1	2602.9	4870.7	5128.8	4416.2	3537.1	2658.9
70°	400.7	391.5	411.9	485.4	675.1	1642.0	4189.9	4703.9	4350.9	3167.5	2124.5
72.5°	294.7	293.8	322.1	396.9	519.8	874.6	3145.3	3771.7	3554.6	2411.9	1337.7
75°	198.9	207.8	253.0	331.7	471.1	567.2	2144.3	2736.3	2467.6	1369.6	546.8
77.5°	113.3	113.9	163.0	266.4	423.0	456.4	1270.6	1743.2	1306.2	455.5	162.3
80°	49.0	53.8	80.8	193.5	350.7	404.2	728.5	958.0	528.3	96.4	52.5
82.5°	18.1	21.3	35.6	119.0	255.9	332.9	440.2	457.4	179.2	34.1	32.8
85°	0.0	0.6	13.0	55.7	133.4	148.6	294.1	271.2	79.3	16.2	21.3
87.5°	0.0	0.0	0.0	5.7	17.5	55.4	91.3	101.9	19.1	5.7	5.1
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°	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6
2.5°	1253.1	1232.4	1180.5	1128.6	1090.1	1058.0	1009.6	983.2	969.2	948.5	949.8
5°	1221.6	1179.6	1088.2	993.7	917.3	842.8	753.7	717.7	687.5	670.3	658.8
7.5°	1174.8	1112.7	977.4	851.4	734.0	603.8	506.1	440.8	396.9	380.7	365.1
10°	1123.5	1041.1	865.1	690.4	527.4	393.1	310.3	250.5	229.2	209.4	211.3
12.5°	1076.1	975.9	762.0	544.9	369.5	249.9	194.8	170.3	163.3	161.1	161.1
15°	1037.3	913.5	651.2	409.6	253.4	179.5	156.0	149.3	146.7	146.1	146.1
17.5°	995.9	854.3	551.3	302.7	184.3	150.2	142.3	137.8	136.9	136.2	136.2
20°	959.0	794.8	456.4	225.3	149.0	135.3	130.2	127.3	126.4	125.7	126.0
22.5°	924.0	741.9	367.3	170.3	131.1	123.2	118.1	115.2	113.3	111.7	112.0
25°	892.8	691.0	295.4	139.4	118.1	111.1	106.0	101.9	97.7	95.8	95.5
27.5°	870.8	646.4	230.1	119.4	106.3	98.7	92.3	87.2	81.8	78.9	78.3
30°	852.7	601.2	182.1	105.4	94.5	87.2	79.3	71.9	66.2	63.3	62.1
32.5°	840.9	558.3	143.5	93.9	84.7	75.8	66.8	59.5	53.2	50.3	49.7
35°	839.0	522.3	117.4	84.3	75.8	66.2	57.0	49.0	43.6	40.7	40.1
37.5°	852.7	494.6	98.3	76.7	68.4	57.9	47.7	40.4	35.6	33.4	33.1
40°	889.3	477.1	85.3	70.3	61.7	50.3	40.7	34.4	29.6	27.4	27.4
42.5°	959.0	477.7	76.7	64.3	55.1	43.0	34.7	28.6	24.5	22.6	22.0
45°	1067.8	499.4	69.4	58.2	48.7	37.2	29.6	23.6	19.4	17.8	17.8
47.5°	1213.6	542.4	63.0	52.2	43.0	31.8	25.1	19.1	15.6	14.0	14.0
50°	1404.3	611.4	57.6	47.1	38.2	27.4	20.4	15.6	12.1	10.8	10.5
52.5°	1603.5	696.7	51.2	42.6	32.8	23.2	16.6	12.1	9.2	8.3	8.0
55°	1823.4	780.1	45.2	38.2	26.7	19.4	13.0	9.5	6.7	5.7	5.7
57.5°	2045.3	861.9	37.9	31.8	21.0	14.3	10.2	7.0	4.5	3.5	3.5
60°	2233.1	888.3	32.1	25.8	15.9	10.2	7.3	4.5	2.5	1.6	1.6
62.5°	2258.9	799.2	27.1	19.7	11.5	7.0	3.8	2.5	1.0	0.6	0.6
65°	2118.8	649.3	22.6	15.0	7.6	3.5	1.6	1.0	0.3	0.0	0.0
67°	1898.6	526.4	18.5	11.1	5.4	2.2	1.0	0.3	0.0	0.0	0.0
67.5°	1842.2	501.9	17.8	10.5	4.8	1.9	0.6	0.3	0.0	0.0	0.0
70°	1445.6	375.9	12.7	6.4	2.9	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	898.5	212.6	9.2	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0
75°	339.6	74.5	6.4	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	105.7	28.3	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.6	10.8	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.0	4.5	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	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)