

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: P451170

Luminaire Tested: **GALN-SA2A-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6557 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

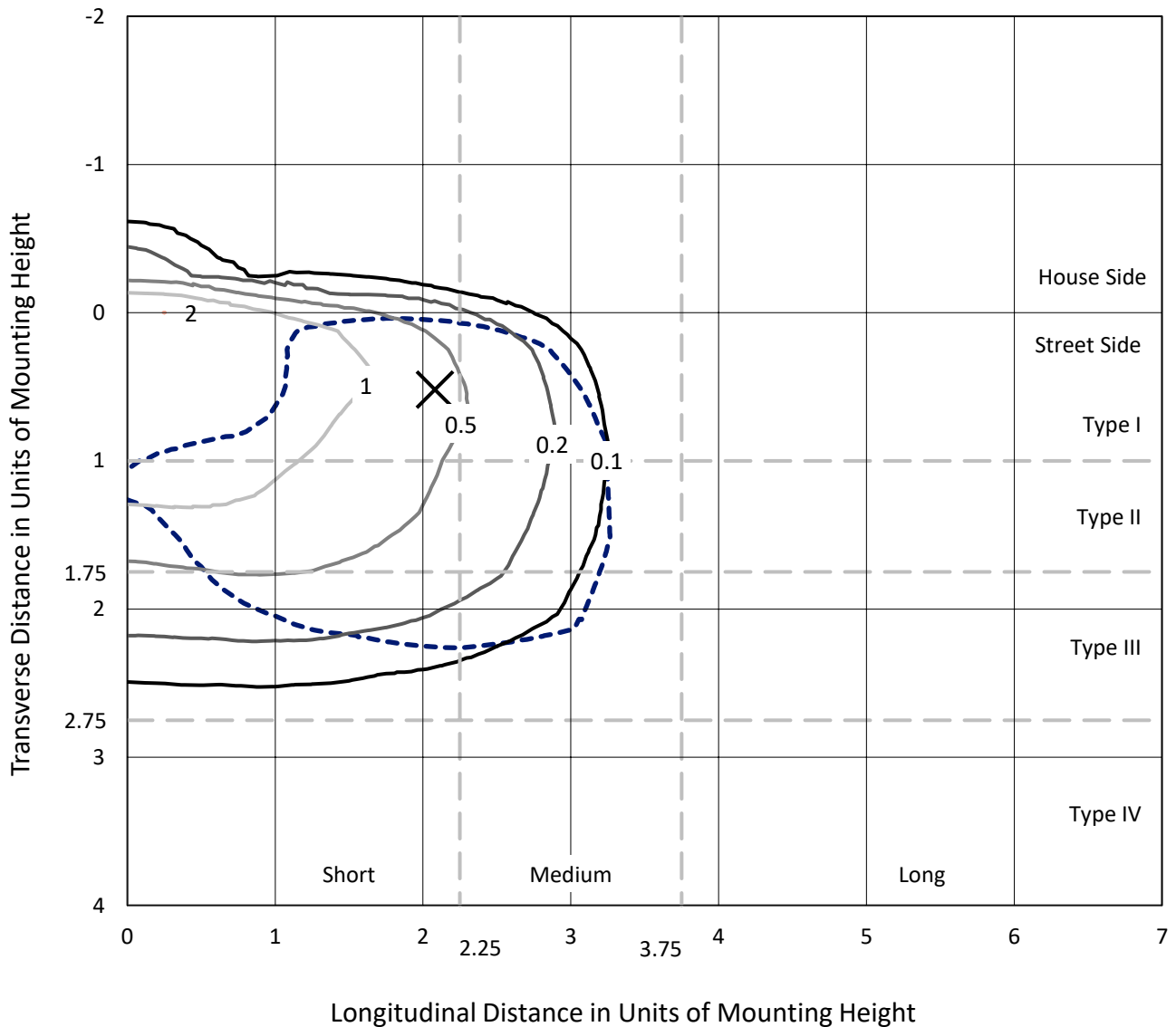
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

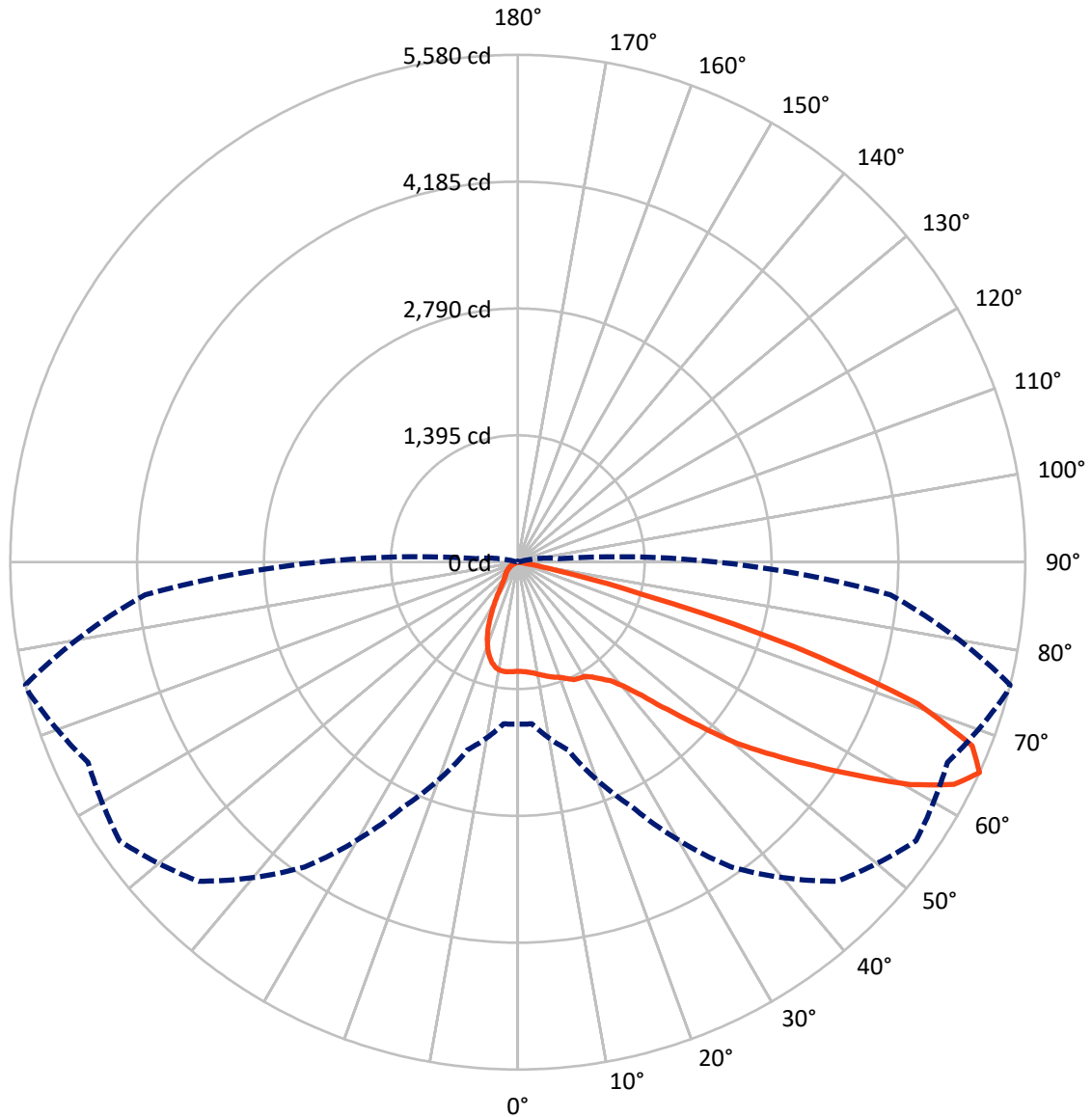
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.5	0.0	473.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6083.5	0.0	6083.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	6557.0	0.0	6557.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.5
10°-20°	220.0	3.4
20°-30°	354.5	5.4
30°-40°	616.4	9.4
40°-50°	1018.6	15.5
50°-60°	1573.5	24.0
60°-70°	1921.5	29.3
70°-80°	729.3	11.1
80°-90°	24.3	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°	6557.0	100.0
0°-180°	6557.0	100.0



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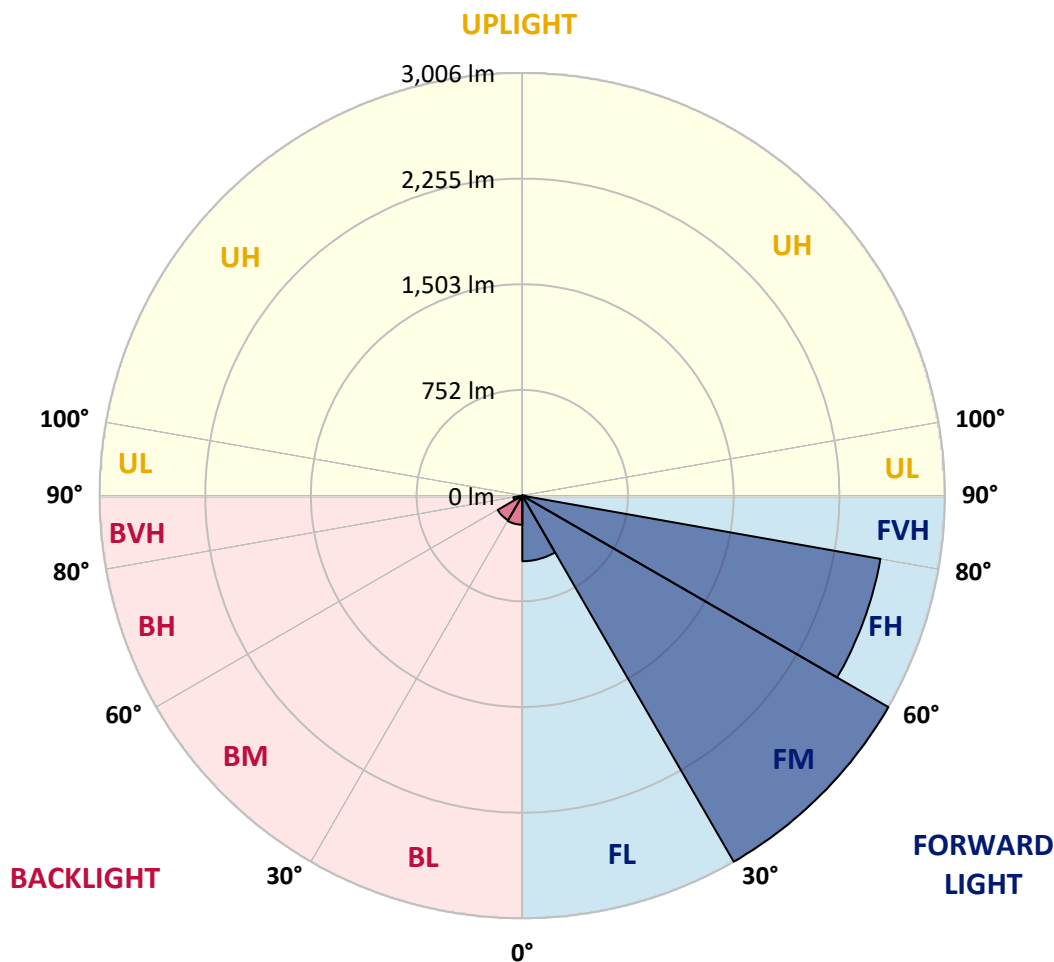
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.5	7.1			
FM	(30°-60°)	3006.5	45.9			
FH	(60°-80°)	2586.5	39.4			G2/5000
FVH	(80°-90°)	24.0	0.4			G1/100
BL	(0°-30°)	206.9	3.2	B1/500		
BM	(30°-60°)	202.1	3.1	B0/220		
BH	(60°-80°)	64.3	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	65°	75°	76°	85°
0°	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5
2.5°	1146.2	1146.7	1149.5	1156.4	1167.1	1175.9	1183.3	1195.3	1203.7	1204.6	1207.4
5°	1067.1	1061.5	1067.1	1085.1	1101.3	1125.9	1156.0	1186.1	1212.9	1214.8	1227.7
7.5°	978.2	982.8	991.6	1010.1	1040.7	1078.2	1121.7	1175.4	1226.3	1231.0	1256.4
10°	887.9	898.1	912.5	940.7	983.3	1031.9	1091.2	1168.0	1247.6	1254.1	1298.1
12.5°	804.6	809.2	826.8	864.8	917.6	986.1	1068.0	1163.8	1271.2	1279.1	1342.5
15°	740.7	746.7	762.0	796.3	855.1	943.0	1049.0	1162.4	1294.4	1305.5	1387.0
17.5°	728.7	732.4	738.9	762.0	813.4	908.8	1031.9	1162.0	1316.6	1330.0	1428.2
20°	778.2	775.0	768.5	766.2	794.4	882.4	1019.4	1165.7	1337.9	1353.2	1471.7
22.5°	902.3	906.4	868.5	823.6	814.3	878.2	1017.5	1183.3	1371.7	1389.8	1520.3
25°	1165.7	1133.7	1074.5	967.1	886.1	903.7	1038.4	1224.9	1411.0	1431.0	1564.3
27.5°	1456.9	1447.2	1355.0	1178.2	1027.3	957.4	1075.4	1256.9	1424.0	1444.4	1589.3
30°	1743.0	1754.6	1649.0	1453.6	1232.4	1056.9	1110.1	1268.9	1435.6	1456.9	1621.2
32.5°	2008.2	2022.1	1929.5	1736.0	1474.0	1229.1	1169.9	1315.7	1484.2	1506.0	1674.5
35°	2217.0	2218.9	2149.0	1994.8	1737.9	1438.4	1299.0	1397.6	1549.9	1575.4	1730.9
37.5°	2408.7	2405.9	2324.0	2191.1	1957.8	1646.2	1461.5	1492.1	1624.9	1651.3	1812.4
40°	2550.8	2552.7	2526.3	2401.3	2162.9	1838.3	1590.2	1580.5	1750.8	1792.1	1930.9
42.5°	2645.7	2662.8	2675.8	2612.4	2420.7	2074.9	1787.9	1769.8	1969.4	2003.6	2098.5
45°	2722.6	2753.1	2817.9	2814.7	2668.4	2365.2	2059.2	2022.1	2279.1	2315.6	2311.9
47.5°	2778.6	2809.6	2917.0	2981.8	2901.3	2646.6	2400.4	2368.4	2649.0	2688.8	2547.6
50°	2807.3	2844.3	2981.4	3106.8	3083.2	2917.9	2789.2	2791.1	3095.7	3134.1	2820.7
52.5°	2740.2	2788.3	3015.6	3241.5	3287.4	3177.6	3153.6	3214.7	3493.4	3526.2	3067.5
55°	2525.8	2586.5	2968.9	3356.3	3523.9	3484.1	3567.4	3660.5	3928.1	3949.4	3320.7
57.5°	2390.2	2454.5	2830.9	3454.0	3808.2	3869.3	4001.2	4069.3	4376.7	4430.8	3611.4
60°	2275.8	2326.3	2717.5	3474.8	4097.0	4340.6	4468.8	4539.2	4930.3	4965.5	3931.3
62.5°	2085.6	2143.4	2525.8	3329.5	4242.4	4717.8	4983.6	4952.1	5358.6	5383.1	4127.6
65°	1779.6	1784.6	2136.9	2964.2	4092.4	4962.7	5345.1	5213.2	5563.2	5579.8	4112.3
67.5°	1328.2	1377.3	1643.9	2330.0	3456.8	4753.5	5462.3	5220.1	5434.0	5387.7	3785.9
70°	855.5	893.0	1114.3	1615.7	2492.5	3967.0	5073.9	4862.3	4769.2	4666.5	3098.9
72.5°	394.9	443.0	662.0	923.1	1478.2	2825.8	4118.8	3950.3	3432.7	3179.0	1969.8
75°	172.2	184.3	326.8	487.0	693.0	1494.4	2715.6	2452.2	1550.4	1416.1	788.4
77.5°	105.1	113.0	171.3	261.1	272.2	569.4	1462.9	1069.9	479.1	422.7	213.9
80°	71.3	80.1	124.5	136.6	93.1	158.8	549.1	285.6	96.8	92.6	45.8
82.5°	34.7	44.0	92.1	76.4	40.3	50.9	159.7	61.1	28.2	26.4	16.2
85°	5.1	8.8	51.8	50.0	18.1	12.0	28.2	15.3	9.7	9.3	7.4
87.5°	0.0	0.0	17.6	7.9	1.9	1.9	3.2	3.2	3.7	3.2	3.7
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°	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5
2.5°	1208.7	1211.1	1202.3	1189.8	1176.3	1162.9	1143.9	1126.8	1116.6	1122.6	1107.8
5°	1230.5	1228.6	1205.5	1167.5	1117.1	1056.4	996.3	944.9	928.2	903.2	900.4
7.5°	1260.6	1255.5	1206.4	1119.4	1005.5	891.6	780.5	706.9	664.8	629.1	630.1
10°	1302.7	1287.9	1195.8	1034.7	847.2	675.4	533.8	436.6	394.4	381.0	370.4
12.5°	1346.2	1317.5	1166.2	920.3	659.7	461.6	324.5	265.3	239.3	231.0	230.1
15°	1385.1	1339.8	1114.3	782.8	479.6	294.9	221.3	201.8	198.6	199.1	198.6
17.5°	1423.5	1357.3	1042.5	637.0	325.9	211.6	190.3	185.6	187.0	188.9	188.4
20°	1455.5	1361.1	950.9	486.1	230.5	185.6	178.7	177.8	179.2	180.5	180.5
22.5°	1490.2	1363.8	842.1	336.6	188.4	172.7	169.0	169.0	170.8	172.7	173.1
25°	1516.1	1348.6	712.0	241.7	166.2	160.2	158.3	158.8	160.6	161.6	161.1
27.5°	1520.3	1305.5	574.0	185.2	150.9	144.9	143.0	144.9	142.6	144.0	143.0
30°	1524.0	1250.9	434.2	156.0	137.0	127.8	125.0	122.2	120.4	118.1	117.6
32.5°	1535.6	1186.5	317.1	140.3	124.1	113.9	107.4	99.5	93.5	91.7	91.2
35°	1540.7	1109.2	232.9	127.8	112.5	101.4	89.8	78.7	69.9	66.7	69.0
37.5°	1560.1	1034.2	180.5	118.5	102.3	88.4	73.6	59.7	51.4	49.5	50.5
40°	1599.9	952.7	151.4	110.6	93.5	76.4	58.3	44.9	39.4	37.5	37.0
42.5°	1663.8	871.7	134.7	103.2	84.7	64.3	45.8	35.2	30.6	29.2	29.2
45°	1741.6	793.9	123.1	95.4	75.5	51.8	36.1	28.2	25.5	24.5	24.5
47.5°	1843.9	725.9	113.4	87.5	65.3	41.2	29.2	24.5	22.7	23.1	23.6
50°	1947.6	675.4	102.8	78.7	53.7	33.8	25.0	21.8	21.3	21.8	21.8
52.5°	2025.8	645.8	88.4	66.7	42.1	28.2	22.2	20.4	19.9	19.0	19.0
55°	2131.4	639.3	70.4	54.2	33.3	23.6	19.9	18.5	17.1	16.2	15.7
57.5°	2267.0	646.7	54.2	42.1	25.9	19.4	17.6	15.3	13.4	11.6	11.6
60°	2351.3	630.1	42.1	32.4	19.0	15.7	13.4	11.1	8.8	7.4	6.9
62.5°	2324.4	559.7	33.3	24.1	13.4	11.6	8.8	7.4	5.1	3.7	3.2
65°	2186.0	451.8	26.9	16.7	9.7	6.9	4.6	4.6	2.3	0.5	0.0
67.5°	1913.3	334.7	21.3	11.1	5.6	3.2	2.3	1.4	0.0	0.0	0.0
70°	1557.3	241.7	16.7	6.9	3.2	2.3	0.9	0.5	0.0	0.0	0.0
72.5°	988.8	138.4	13.0	4.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0
75°	382.4	54.2	8.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	108.3	25.5	5.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.2	11.1	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	0.5	0.0	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)