

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: P451518

Luminaire Tested: **GALN-SA2B-827-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451518  
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-SA2B-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA 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: 6586 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

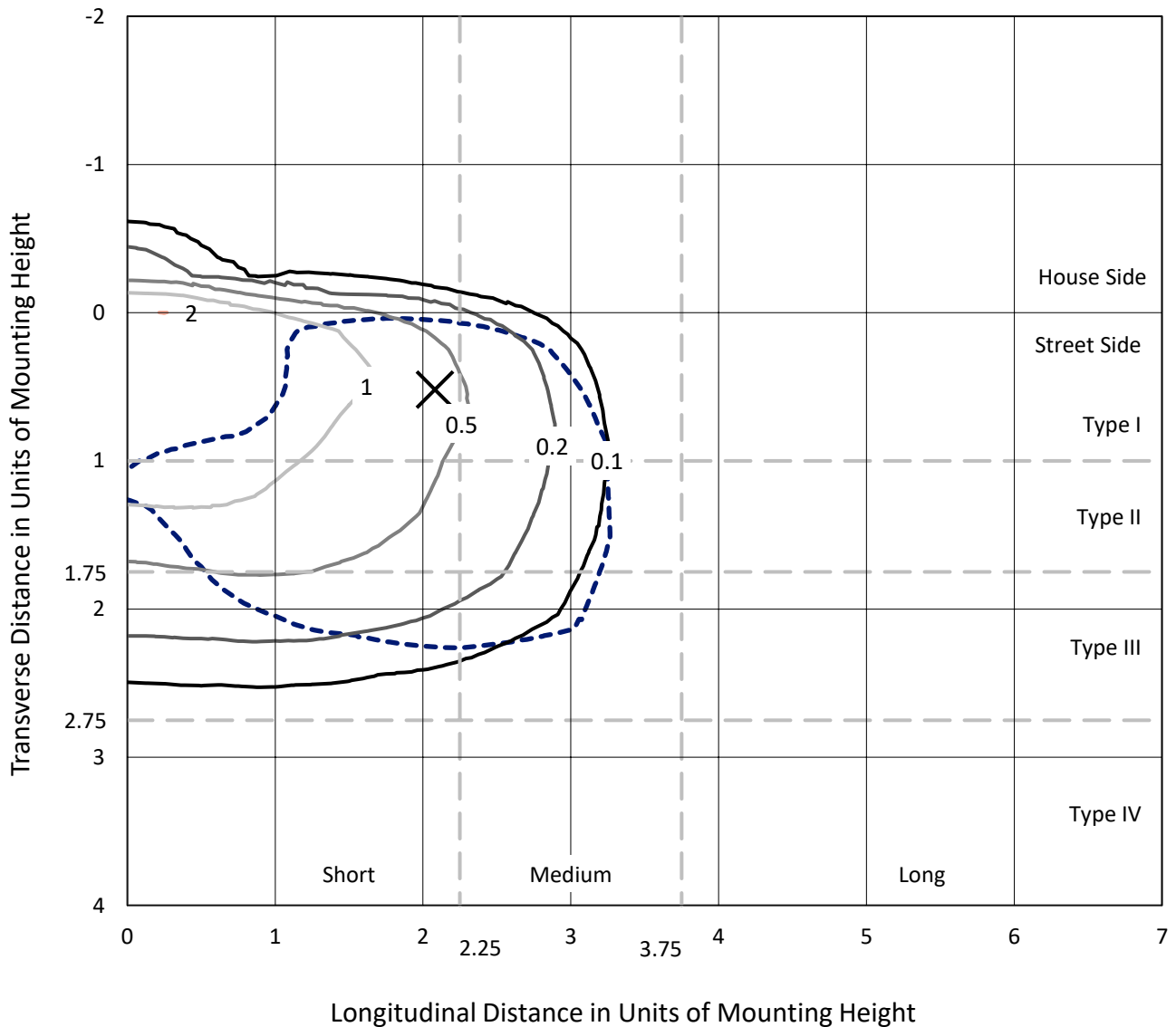
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

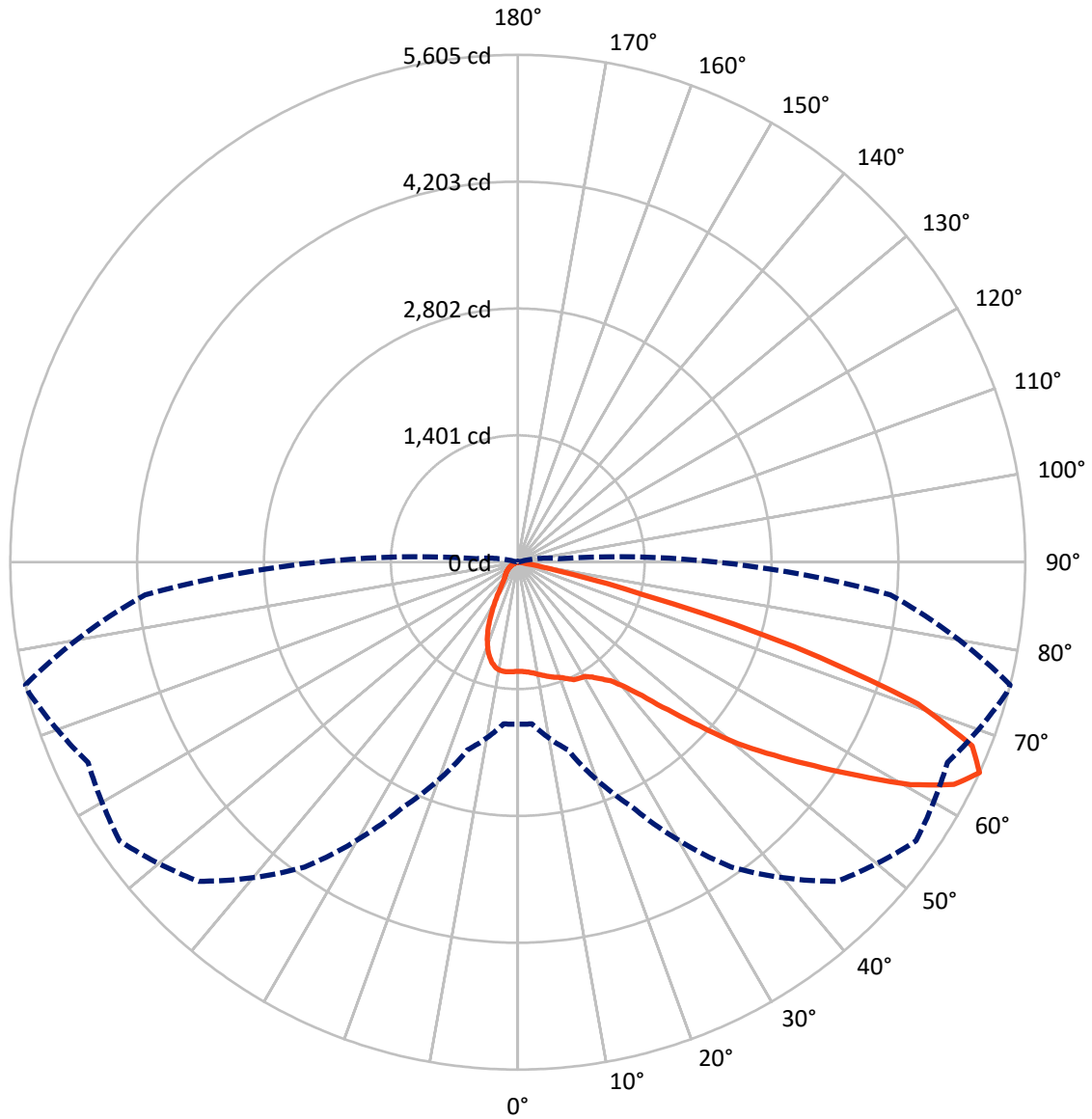
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	475.6	0.0	475.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	6110.4	0.0	6110.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	6586.0	0.0	6586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	1.5
10°-20°	221.0	3.4
20°-30°	356.1	5.4
30°-40°	619.1	9.4
40°-50°	1023.1	15.5
50°-60°	1580.5	24.0
60°-70°	1930.0	29.3
70°-80°	732.5	11.1
80°-90°	24.4	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°	6586.0	100.0
0°-180°	6586.0	100.0

**Coefficient of Utilization**

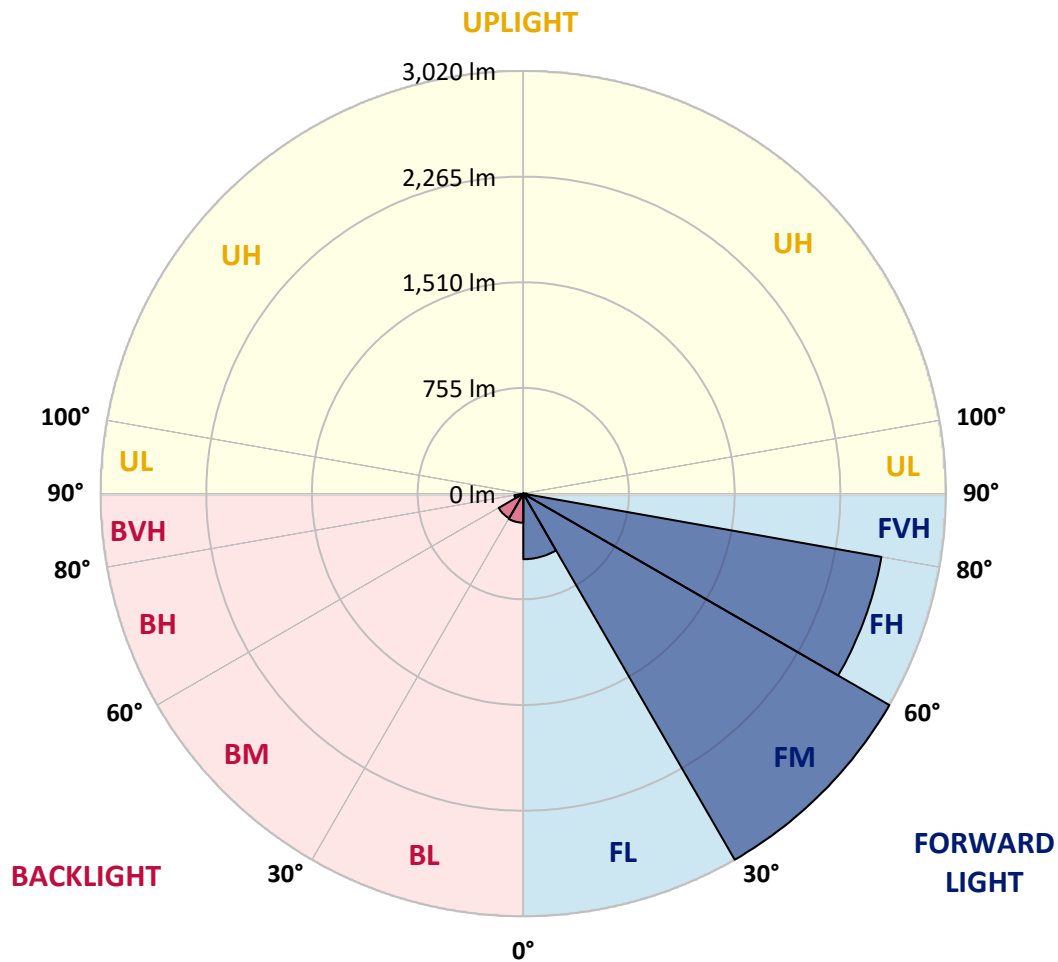


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.5	7.1			
FM (30°-60°)	3019.8	45.9			
FH (60°-80°)	2598.0	39.4			G2/5000
FVH (80°-90°)	24.1	0.4			G1/100
BL (0°-30°)	207.8	3.2	B1/500		
BM (30°-60°)	203.0	3.1	B0/220		
BH (60°-80°)	64.5	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°	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1151.3	1151.8	1154.6	1161.5	1172.2	1181.1	1188.5	1200.6	1209.0	1209.9	1212.7
5°	1071.8	1066.2	1071.8	1089.9	1106.2	1130.9	1161.1	1191.3	1218.3	1220.1	1233.2
7.5°	982.5	987.2	996.0	1014.6	1045.3	1083.0	1126.7	1180.6	1231.8	1236.4	1262.0
10°	891.9	902.1	916.5	944.9	987.6	1036.5	1096.0	1173.2	1253.1	1259.7	1303.8
12.5°	808.2	812.8	830.5	868.6	921.6	990.4	1072.7	1169.0	1276.9	1284.8	1348.5
15°	744.0	750.0	765.4	799.8	858.8	947.2	1053.7	1167.6	1300.1	1311.3	1393.1
17.5°	731.9	735.6	742.1	765.4	817.0	912.8	1036.5	1167.1	1322.4	1335.9	1434.5
20°	781.6	778.4	771.9	769.6	797.9	886.3	1023.9	1170.8	1343.8	1359.2	1478.2
22.5°	906.3	910.5	872.3	827.2	817.9	882.1	1022.0	1188.5	1377.8	1395.9	1527.0
25°	1170.8	1138.8	1079.2	971.4	890.0	907.7	1043.0	1230.4	1417.3	1437.3	1571.2
27.5°	1463.3	1453.6	1361.0	1183.4	1031.8	961.6	1080.2	1262.4	1430.3	1450.8	1596.3
30°	1750.7	1762.3	1656.3	1460.1	1237.8	1061.6	1115.0	1274.5	1441.9	1463.3	1628.4
32.5°	2017.1	2031.1	1938.1	1743.7	1480.5	1234.5	1175.0	1321.5	1490.8	1512.6	1681.9
35°	2226.8	2228.7	2158.5	2003.6	1745.6	1444.7	1304.8	1403.8	1556.8	1582.4	1738.6
37.5°	2419.3	2416.6	2334.3	2200.8	1966.4	1653.5	1468.0	1498.7	1632.1	1658.6	1820.4
40°	2562.1	2564.0	2537.5	2411.9	2172.4	1846.5	1597.2	1587.5	1758.6	1800.0	1939.5
42.5°	2657.4	2674.6	2687.6	2623.9	2431.4	2084.1	1795.8	1777.7	1978.1	2012.5	2107.8
45°	2734.6	2765.3	2830.4	2827.1	2680.2	2375.6	2068.3	2031.1	2289.1	2325.9	2322.2
47.5°	2790.9	2822.0	2929.9	2995.0	2914.1	2658.3	2411.0	2378.9	2660.7	2700.7	2558.8
50°	2819.7	2856.9	2994.5	3120.5	3096.8	2930.8	2801.6	2803.4	3109.4	3148.0	2833.2
52.5°	2752.3	2800.6	3028.9	3255.9	3301.9	3191.7	3167.5	3228.9	3508.8	3541.8	3081.0
55°	2537.0	2597.9	2982.0	3371.2	3539.5	3499.5	3583.2	3676.7	3945.4	3966.8	3335.4
57.5°	2400.7	2465.4	2843.4	3469.3	3825.0	3886.4	4018.9	4087.3	4396.0	4450.4	3627.4
60°	2285.9	2336.6	2729.5	3490.2	4115.2	4359.7	4488.6	4559.2	4952.1	4987.5	3948.7
62.5°	2094.8	2152.9	2537.0	3344.2	4261.2	4738.7	5005.6	4974.0	5382.3	5406.9	4145.9
65°	1787.4	1792.5	2146.4	2977.3	4110.5	4984.7	5368.8	5236.3	5587.8	5604.5	4130.5
67.5°	1334.1	1383.3	1651.2	2340.3	3472.1	4774.5	5486.4	5243.2	5458.1	5411.6	3802.7
70°	859.3	897.0	1119.2	1622.8	2503.5	3984.5	5096.3	4883.8	4790.3	4687.1	3112.6
72.5°	396.6	445.0	664.9	927.2	1484.7	2838.3	4137.0	3967.8	3447.9	3193.1	1978.5
75°	173.0	185.1	328.3	489.2	696.1	1501.0	2727.6	2463.1	1557.3	1422.4	791.9
77.5°	105.6	113.5	172.0	262.3	273.4	571.9	1469.4	1074.6	481.3	424.5	214.8
80°	71.6	80.4	125.1	137.2	93.5	159.5	551.5	286.9	97.2	93.0	46.0
82.5°	34.9	44.2	92.5	76.7	40.5	51.1	160.4	61.4	28.4	26.5	16.3
85°	5.1	8.8	52.1	50.2	18.1	12.1	28.4	15.3	9.8	9.3	7.4
87.5°	0.0	0.0	17.7	7.9	1.9	1.9	3.3	3.3	3.7	3.3	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°	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1214.1	1216.4	1207.6	1195.0	1181.5	1168.1	1149.0	1131.8	1121.6	1127.6	1112.7
5°	1235.9	1234.1	1210.8	1172.7	1122.0	1061.1	1000.7	949.0	932.3	907.2	904.4
7.5°	1266.2	1261.1	1211.8	1124.3	1010.0	895.6	784.0	710.0	667.7	631.9	632.9
10°	1308.5	1293.6	1201.1	1039.3	850.9	678.4	536.1	438.5	396.2	382.7	372.0
12.5°	1352.2	1323.4	1171.3	924.4	662.6	463.6	326.0	266.4	240.4	232.0	231.1
15°	1391.3	1345.7	1119.2	786.3	481.7	296.2	222.3	202.7	199.5	199.9	199.5
17.5°	1429.8	1363.4	1047.2	639.8	327.4	212.5	191.1	186.5	187.9	189.7	189.3
20°	1461.9	1367.1	955.1	488.2	231.6	186.5	179.5	178.6	180.0	181.3	181.3
22.5°	1496.8	1369.9	845.8	338.0	189.3	173.4	169.7	169.7	171.6	173.4	173.9
25°	1522.8	1354.5	715.2	242.7	166.9	160.9	159.0	159.5	161.4	162.3	161.8
27.5°	1527.0	1311.3	576.6	186.0	151.6	145.5	143.7	145.5	143.2	144.6	143.7
30°	1530.7	1256.4	436.2	156.7	137.6	128.3	125.5	122.8	120.9	118.6	118.1
32.5°	1542.4	1191.8	318.5	140.9	124.6	114.4	107.9	100.0	93.9	92.1	91.6
35°	1547.5	1114.1	233.9	128.3	113.0	101.8	90.2	79.0	70.2	67.0	69.3
37.5°	1567.0	1038.8	181.3	119.0	102.8	88.8	73.9	60.0	51.6	49.8	50.7
40°	1607.0	956.9	152.1	111.1	93.9	76.7	58.6	45.1	39.5	37.7	37.2
42.5°	1671.2	875.6	135.3	103.7	85.1	64.6	46.0	35.3	30.7	29.3	29.3
45°	1749.3	797.5	123.7	95.8	75.8	52.1	36.3	28.4	25.6	24.6	24.6
47.5°	1852.1	729.1	113.9	87.9	65.6	41.4	29.3	24.6	22.8	23.2	23.7
50°	1956.2	678.4	103.2	79.0	53.9	33.9	25.1	21.9	21.4	21.9	21.9
52.5°	2034.8	648.7	88.8	67.0	42.3	28.4	22.3	20.5	20.0	19.1	19.1
55°	2140.8	642.2	70.7	54.4	33.5	23.7	20.0	18.6	17.2	16.3	15.8
57.5°	2277.1	649.6	54.4	42.3	26.0	19.5	17.7	15.3	13.5	11.6	11.6
60°	2361.7	632.9	42.3	32.5	19.1	15.8	13.5	11.2	8.8	7.4	7.0
62.5°	2334.7	562.2	33.5	24.2	13.5	11.6	8.8	7.4	5.1	3.7	3.3
65°	2195.7	453.8	27.0	16.7	9.8	7.0	4.6	4.6	2.3	0.5	0.0
67.5°	1921.8	336.2	21.4	11.2	5.6	3.3	2.3	1.4	0.0	0.0	0.0
70°	1564.2	242.7	16.7	7.0	3.3	2.3	0.9	0.5	0.0	0.0	0.0
72.5°	993.2	139.0	13.0	4.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0
75°	384.1	54.4	8.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	108.8	25.6	5.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.4	11.2	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.5	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)