

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: P646850

Luminaire Tested: **GALN-SA3C-835-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12284.5 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

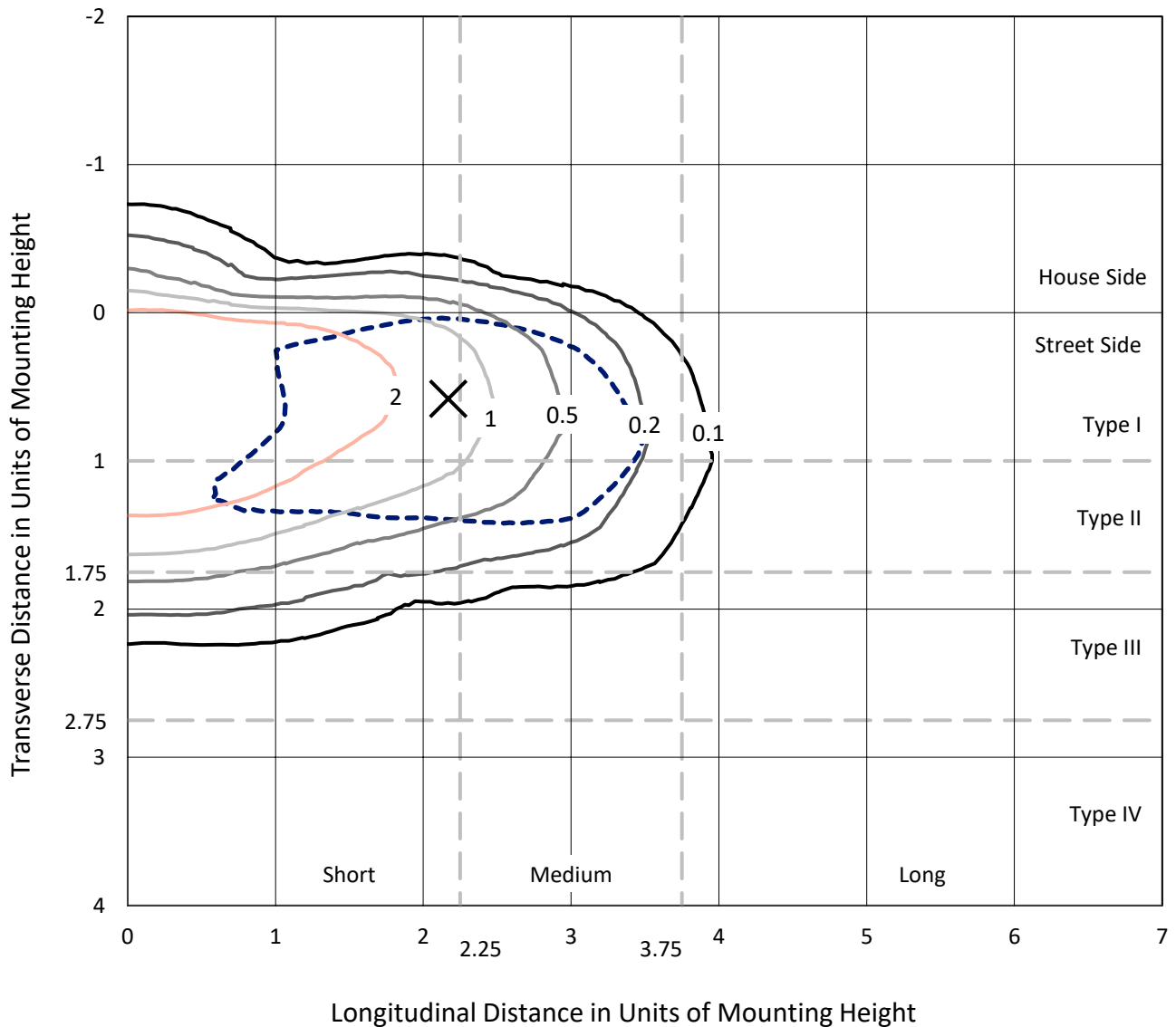
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

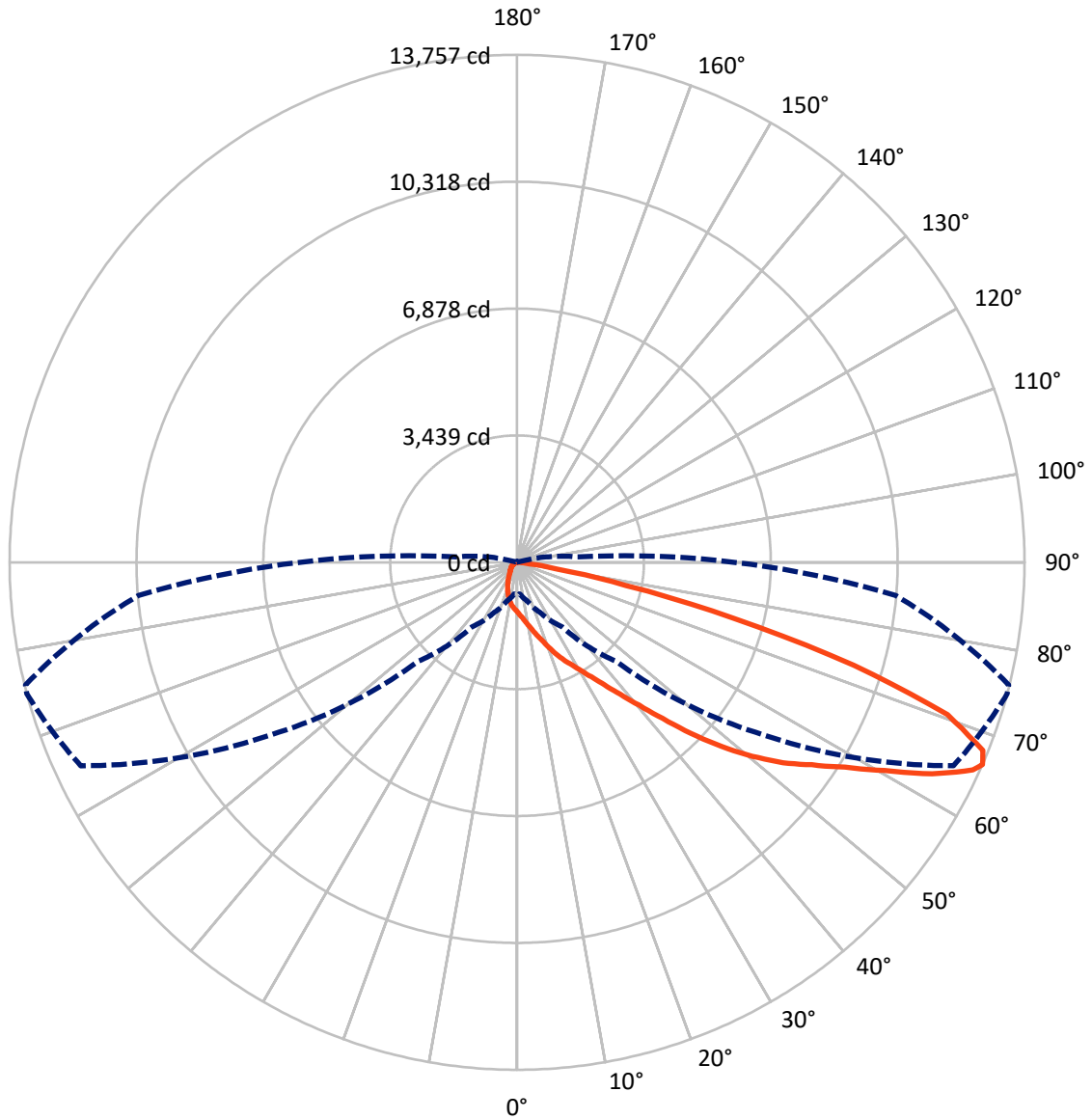
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	758.4	0.0	758.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11526.1	0.0	11526.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	12284.5	0.0	12284.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	1.1
10°-20°	381.4	3.1
20°-30°	658.5	5.4
30°-40°	1187.8	9.7
40°-50°	2145.8	17.5
50°-60°	3345.3	27.2
60°-70°	3177.9	25.9
70°-80°	1191.0	9.7
80°-90°	67.2	0.5
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°	12284.5	100.0
0°-180°	12284.5	100.0

**Coefficient of Utilization**

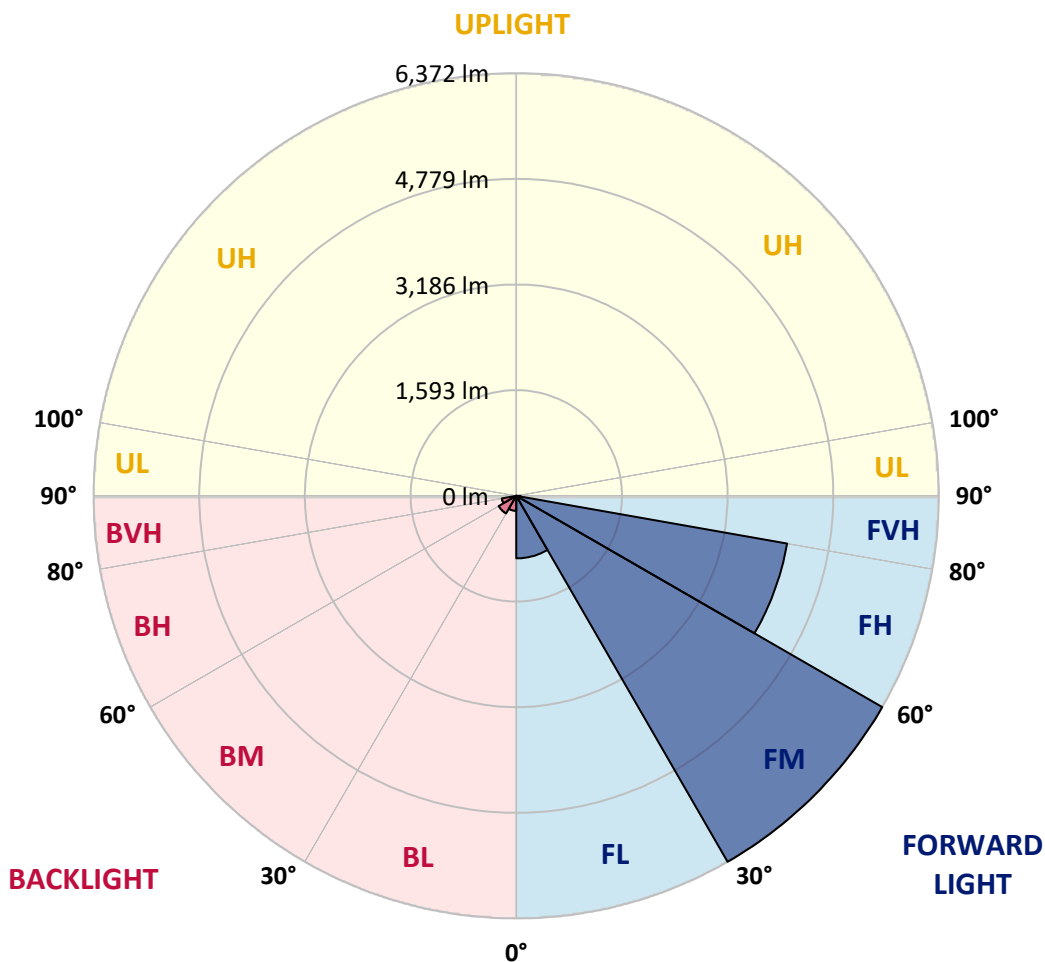


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.9	7.7			
FM (30°-60°)	6372.0	51.9			
FH (60°-80°)	4147.5	33.8			G2/5000
FVH (80°-90°)	63.7	0.5			G1/100
BL (0°-30°)	226.5	1.8	B1/500		
BM (30°-60°)	307.0	2.5	B1/1000		
BH (60°-80°)	221.4	1.8	B1/500		G1/500
BVH (80°-90°)	3.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4
2.5°	1605.0	1585.0	1591.4	1582.3	1561.5	1530.5	1503.3	1464.2	1425.2	1418.8	1375.2
5°	1816.6	1811.2	1804.0	1777.6	1763.1	1715.9	1659.6	1592.3	1511.5	1496.9	1417.9
7.5°	1961.1	1958.4	1962.0	1948.4	1935.7	1893.0	1833.0	1741.3	1616.0	1607.7	1476.0
10°	2008.3	2015.6	2029.2	2051.0	2071.0	2057.4	2012.0	1897.5	1751.3	1727.7	1542.4
12.5°	1981.1	1989.3	2021.9	2080.1	2144.6	2181.8	2163.7	2080.1	1894.8	1875.7	1616.8
15°	1911.1	1921.2	1967.4	2057.4	2172.7	2278.1	2323.6	2263.6	2062.0	2031.0	1706.8
17.5°	1807.6	1822.1	1888.4	2007.5	2165.5	2347.1	2475.2	2455.3	2239.9	2210.9	1804.9
20°	1729.5	1740.4	1796.7	1932.9	2134.6	2385.3	2619.6	2676.0	2459.8	2409.8	1920.2
22.5°	1781.2	1784.8	1804.0	1885.7	2079.2	2395.3	2746.8	2905.8	2693.2	2648.7	2040.1
25°	2034.7	1998.4	1979.3	1961.1	2067.4	2386.2	2862.2	3145.5	2925.8	2878.5	2159.1
27.5°	2434.3	2418.0	2321.7	2192.7	2168.2	2398.0	2938.4	3372.6	3144.7	3093.8	2275.4
30°	2869.5	2841.3	2782.2	2593.3	2403.5	2481.6	2993.9	3593.3	3403.5	3336.3	2381.7
32.5°	3269.1	3287.3	3199.2	3004.8	2785.0	2659.6	3065.6	3834.1	3700.5	3617.0	2505.2
35°	3735.1	3771.4	3636.1	3449.9	3192.8	2981.2	3205.5	4105.7	4077.6	3972.2	2695.9
37.5°	4208.3	4230.2	4147.5	3885.9	3654.3	3389.9	3468.9	4440.9	4541.7	4451.7	2924.0
40°	4606.2	4636.1	4575.3	4342.8	4095.7	3863.2	3851.3	4806.0	5094.0	5001.3	3263.6
42.5°	4910.5	4933.2	4935.0	4770.6	4548.1	4442.7	4339.2	5272.0	5786.1	5678.9	3657.9
45°	5294.7	5327.4	5308.3	5196.6	5030.4	5011.3	4957.7	5835.2	6614.5	6479.2	4169.2
47.5°	5888.8	5910.6	5863.3	5731.6	5562.7	5592.7	5560.9	6466.5	7459.2	7343.0	4698.9
50°	6301.1	6337.4	6404.7	6457.4	6334.7	6223.9	6129.5	7055.9	8261.4	8156.9	5240.2
52.5°	6296.6	6356.6	6569.1	6834.3	7102.3	7068.7	6797.1	7707.2	9027.1	8898.1	5748.9
55°	5872.4	5988.7	6301.1	6771.6	7513.7	7883.5	7759.9	8461.2	9688.3	9601.1	6338.4
57.5°	4996.8	5067.6	5501.8	6159.5	7283.9	8266.8	8875.4	9483.1	10481.3	10440.4	7253.9
60°	3360.9	3392.7	3951.3	4764.2	6201.2	7884.3	9692.8	10719.3	11457.8	11437.8	8323.1
62.5°	1925.7	1939.3	2344.4	3030.2	4412.7	6681.7	9761.9	12244.4	12628.6	12639.5	9560.3
65°	1036.4	1043.7	1370.6	1778.5	2685.1	4762.4	8778.1	13080.0	13575.1	13596.0	10326.9
66°	894.7	860.2	1090.9	1516.0	2136.4	3790.5	8156.0	13050.1	13756.8	13734.1	10299.7
67.5°	680.3	711.2	871.1	1165.4	1583.2	2695.0	6733.5	12469.7	13618.7	13547.9	9880.9
70°	486.9	499.6	620.4	831.2	1078.2	1478.8	4302.8	10356.8	12377.9	12282.5	8608.3
72.5°	314.3	327.9	439.7	601.3	779.3	807.5	2408.9	7482.9	9543.0	9529.3	6482.8
75°	224.3	237.1	290.6	430.6	585.8	499.6	1159.9	5043.1	6066.8	6025.9	4010.3
77.5°	162.6	169.0	194.4	281.6	418.7	357.9	537.8	2693.2	3020.2	3162.9	1772.2
80°	93.6	99.0	135.4	171.7	283.4	244.4	257.1	1080.9	1114.5	1061.0	554.1
82.5°	46.4	52.7	80.8	117.1	177.1	164.4	118.1	325.2	343.3	334.3	139.9
85°	10.9	13.6	45.4	77.2	86.3	73.6	57.2	95.4	118.1	115.3	53.6
87.5°	0.9	1.8	16.4	13.6	14.6	24.5	20.0	24.5	38.1	35.4	19.1
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°	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4
2.5°	1355.2	1338.0	1288.0	1238.9	1198.1	1155.4	1116.3	1093.6	1084.5	1074.6	1079.1
5°	1374.3	1332.5	1231.7	1144.5	1059.1	986.4	928.3	891.1	872.9	870.1	865.6
7.5°	1399.8	1328.0	1171.8	1035.5	923.8	842.9	776.7	723.0	706.7	692.2	680.3
10°	1430.6	1319.8	1097.3	921.0	802.0	700.3	613.1	549.5	516.9	507.8	514.1
12.5°	1463.3	1304.4	1019.2	815.7	678.5	548.6	467.8	436.0	426.9	423.3	424.2
15°	1496.0	1285.3	937.4	713.9	540.4	437.9	400.6	392.4	388.8	387.0	385.2
17.5°	1526.0	1254.4	845.6	615.0	437.9	374.2	360.6	353.4	346.1	343.3	338.8
20°	1561.5	1219.0	763.0	504.1	370.6	338.8	322.4	308.8	297.9	290.6	289.8
22.5°	1595.0	1173.6	676.7	417.8	337.9	304.3	278.0	263.4	250.7	241.6	244.4
25°	1613.2	1118.1	599.5	364.3	308.0	269.7	240.7	222.5	208.9	204.4	203.5
27.5°	1613.2	1050.0	524.1	333.3	280.7	238.9	208.9	191.7	182.6	176.3	177.1
30°	1600.5	974.7	454.1	309.8	257.1	211.6	183.5	168.0	160.7	156.2	155.3
32.5°	1590.5	902.9	394.2	287.0	232.6	188.0	163.5	151.7	144.5	139.9	139.9
35°	1605.9	841.1	347.9	264.3	209.8	169.8	148.1	137.2	129.9	126.3	125.4
37.5°	1646.8	784.8	312.5	239.8	188.9	154.4	137.2	124.4	117.1	112.6	110.8
40°	1747.7	753.0	286.1	217.1	169.0	141.7	124.4	112.6	103.5	99.0	98.1
42.5°	1909.3	754.0	260.7	196.2	153.5	130.8	113.5	99.9	89.9	85.3	84.5
45°	2152.8	788.4	240.7	176.3	139.9	119.0	101.7	87.2	78.1	73.6	73.6
47.5°	2444.4	855.7	223.5	158.9	127.2	108.1	89.9	75.4	66.3	62.6	62.6
50°	2760.5	942.9	206.2	140.8	116.3	96.3	77.2	65.4	58.1	55.4	55.4
52.5°	3082.9	1048.2	188.9	126.3	104.5	83.5	66.3	58.1	51.8	50.0	49.0
55°	3506.2	1182.6	170.8	110.8	91.8	71.7	59.0	50.9	43.6	40.9	39.9
57.5°	4157.5	1385.2	150.8	97.2	75.4	60.0	50.9	42.7	34.5	30.0	29.0
60°	4943.2	1632.3	129.9	85.3	60.8	49.0	40.9	32.7	25.4	20.0	19.1
62.5°	5678.9	1789.4	109.9	71.7	48.2	37.3	29.0	24.5	18.2	12.7	11.8
65°	6004.1	1736.8	90.8	58.1	38.1	26.3	19.1	17.2	10.9	5.5	4.5
66°	5896.0	1658.6	83.5	52.7	34.5	22.7	16.4	14.6	8.1	2.7	2.7
67.5°	5577.2	1474.2	72.7	45.4	30.0	18.2	12.7	10.9	4.5	0.9	0.0
70°	4778.7	1192.7	57.2	33.6	21.8	12.7	7.3	5.5	2.7	0.0	0.0
72.5°	3670.6	888.4	45.4	25.4	15.4	7.3	3.6	1.8	2.7	0.0	0.0
75°	2249.0	507.8	35.4	19.1	10.0	4.5	2.7	0.0	2.7	0.9	0.0
77.5°	998.2	228.0	23.6	12.7	7.3	3.6	1.8	0.0	1.8	0.9	0.0
80°	252.5	74.5	13.6	9.1	5.5	2.7	0.9	0.0	1.8	1.8	0.9
82.5°	69.1	27.2	10.0	7.3	4.5	2.7	0.9	0.0	1.8	1.8	1.8
85°	27.2	12.7	9.1	7.3	5.5	2.7	0.9	0.0	1.8	1.8	1.8
87.5°	12.7	9.1	9.1	8.1	6.3	2.7	0.9	0.0	1.8	0.9	1.8
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)