

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: P383176

Luminaire Tested: **GLEON-SA5A-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17514 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 162  
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

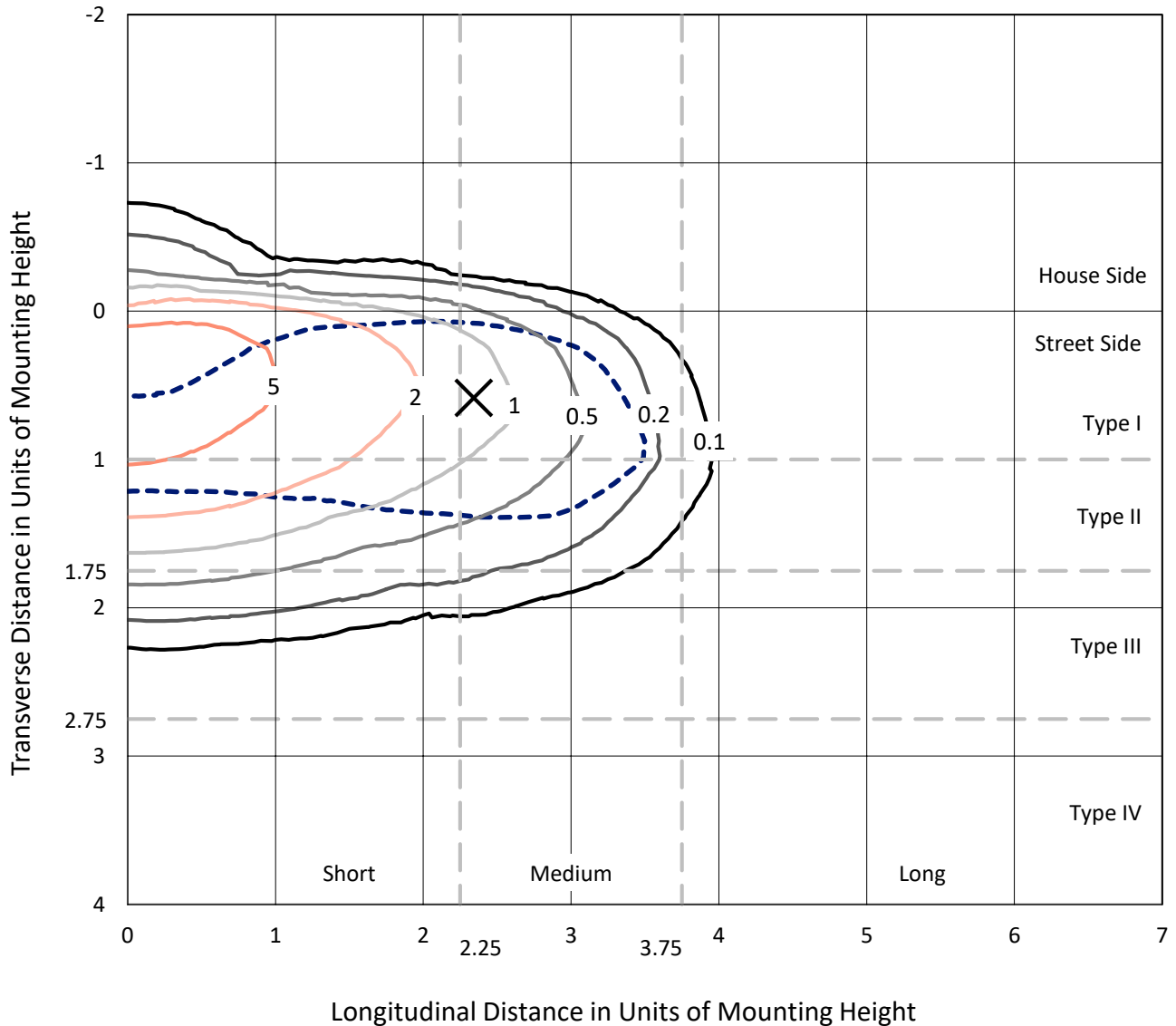




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### Iso-Footcandle Lines of Horizontal Illumination

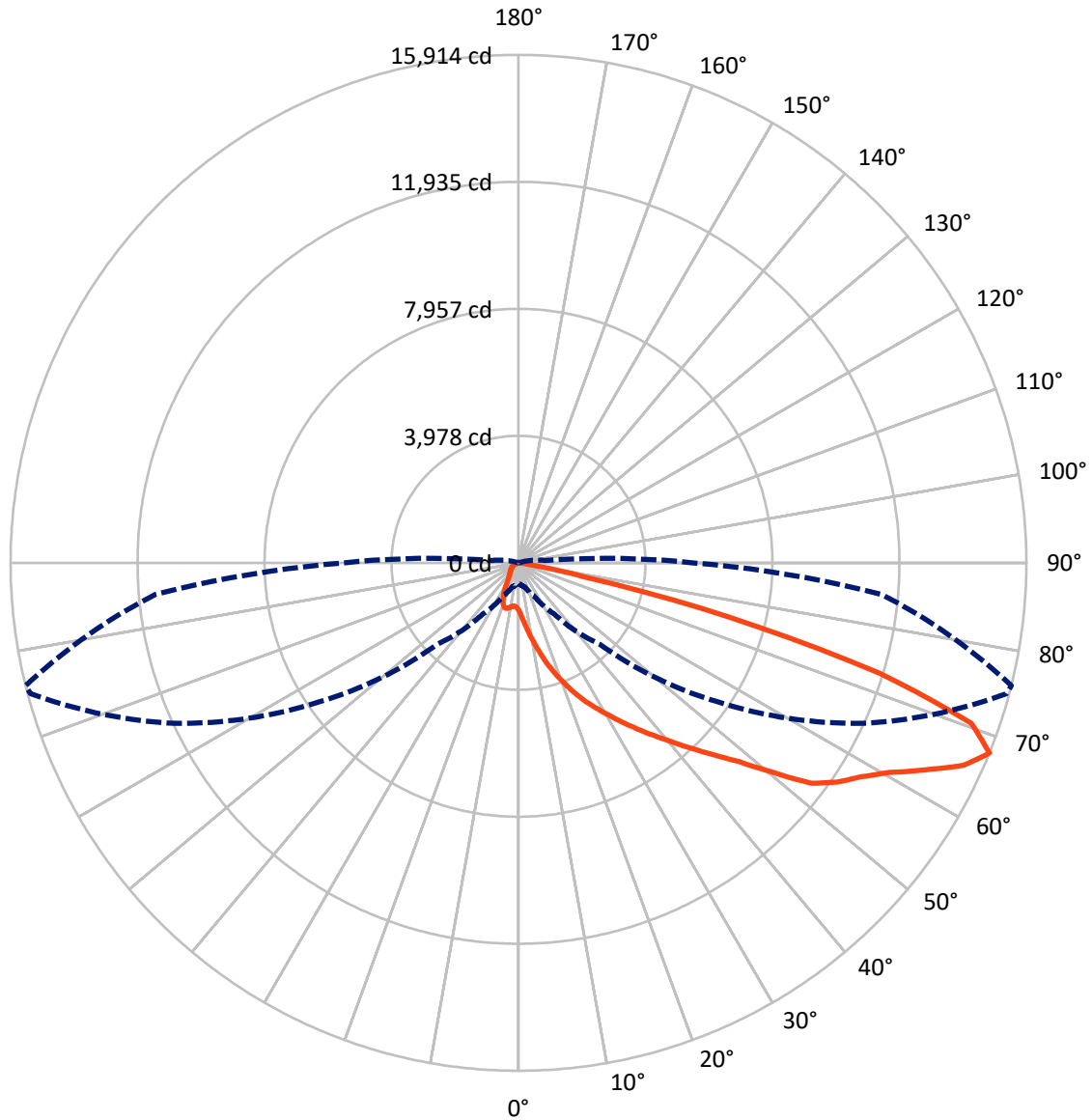
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	869.7	0.0	869.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	16644.3	0.0	16644.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	17514.0	0.0	17514.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	1.1
10°-20°	732.4	4.2
20°-30°	1490.1	8.5
30°-40°	2586.3	14.8
40°-50°	3654.1	20.9
50°-60°	4144.0	23.7
60°-70°	3437.0	19.6
70°-80°	1245.0	7.1
80°-90°	40.4	0.2
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°	17514.0	100.0
0°-180°	17514.0	100.0

**Coefficient of Utilization**

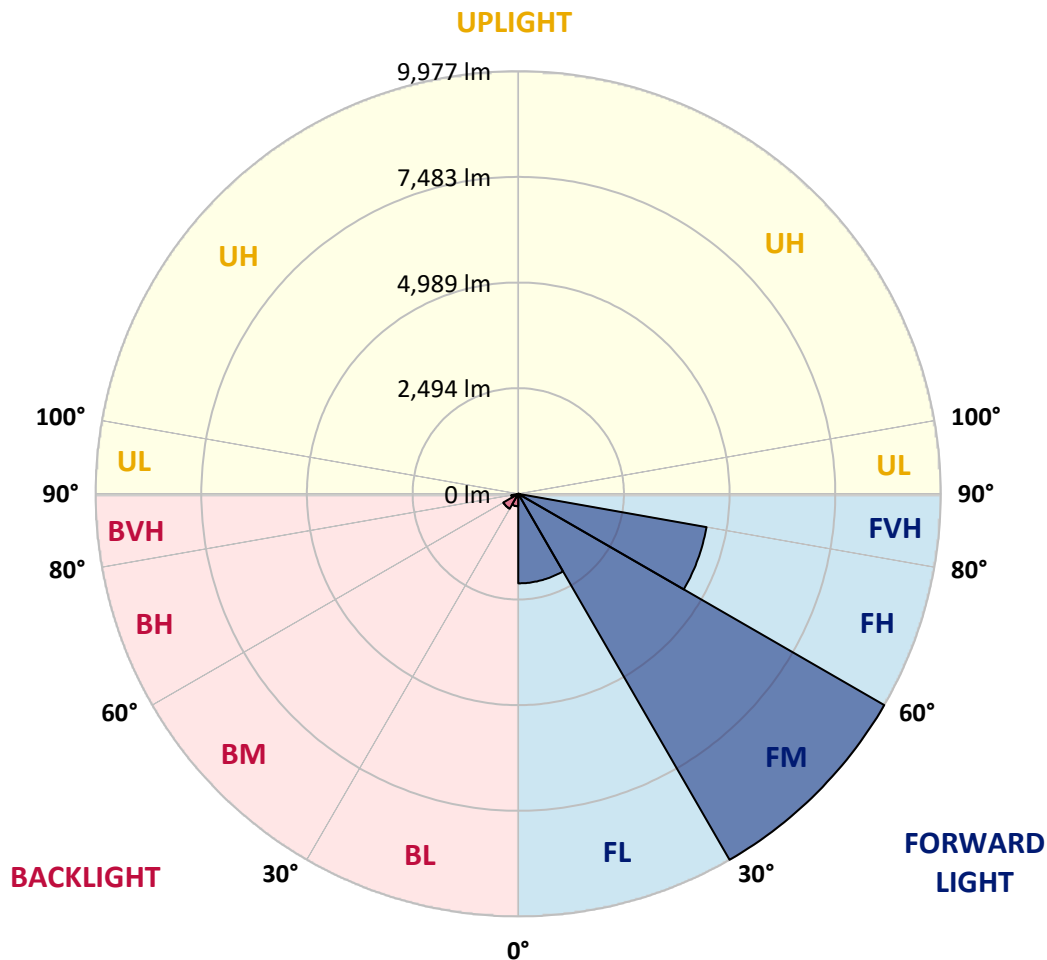


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.9	12.1			
FM (30°-60°)	9977.4	57.0			
FH (60°-80°)	4513.9	25.8			G2/5000
FVH (80°-90°)	39.1	0.2			G1/100
BL (0°-30°)	293.3	1.7	B1/500		
BM (30°-60°)	407.0	2.3	B1/1000		
BH (60°-80°)	168.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7
2.5°	2217.8	2167.9	2179.4	2147.2	2088.9	1969.2	1867.1	1770.4	1657.6	1653.8	1560.9
5°	2990.5	2948.3	2943.0	2877.7	2771.9	2568.5	2370.5	2144.9	1893.2	1874.7	1677.5
7.5°	3692.0	3658.2	3646.0	3568.5	3371.2	3173.2	2915.4	2583.8	2190.2	2156.4	1834.9
10°	4230.7	4214.6	4217.7	4162.4	3993.5	3809.4	3470.9	3048.1	2527.1	2474.8	2023.7
12.5°	4638.9	4642.8	4670.4	4636.7	4542.2	4405.7	4044.2	3543.1	2900.0	2828.6	2239.3
15°	4939.1	4958.2	5008.8	5051.0	5044.1	4925.9	4594.5	4045.8	3296.0	3217.0	2479.5
17.5°	5133.2	5154.6	5228.3	5321.9	5407.9	5380.2	5125.5	4530.8	3696.6	3605.3	2736.6
20°	5303.6	5328.8	5407.9	5531.4	5691.8	5726.4	5559.1	5001.2	4096.4	3985.2	3002.1
22.5°	5672.7	5671.9	5720.3	5792.4	5945.0	6034.1	5928.2	5437.8	4491.6	4375.8	3273.0
25°	6340.3	6315.0	6298.1	6241.3	6275.1	6330.3	6271.3	5846.1	4889.1	4771.8	3547.7
27.5°	7133.8	7149.2	7012.5	6859.8	6741.6	6684.9	6588.2	6224.4	5271.3	5142.4	3816.3
30°	7971.1	7975.6	7814.5	7619.6	7359.4	7143.8	6976.5	6585.9	5664.2	5523.8	4077.2
32.5°	8726.2	8696.3	8536.6	8271.1	7942.7	7700.2	7352.5	6989.5	6080.1	5944.3	4367.3
35°	9324.7	9289.5	9095.3	8853.5	8512.9	8268.8	7850.5	7392.4	6517.6	6384.8	4658.1
37.5°	9762.2	9720.7	9521.2	9272.5	8978.6	8836.7	8428.5	7830.6	6994.9	6852.2	4964.3
40°	9914.1	9878.0	9752.9	9571.1	9334.8	9302.5	9041.6	8334.7	7514.4	7362.5	5311.2
42.5°	9823.5	9788.2	9743.7	9682.3	9584.1	9614.8	9620.2	8909.6	8091.5	7941.9	5694.2
45°	9464.4	9432.9	9479.0	9568.8	9690.8	9842.7	10148.2	9527.3	8736.1	8576.5	6136.9
47.5°	8935.7	8912.7	9040.0	9264.1	9620.9	10039.9	10630.8	10176.6	9459.8	9311.7	6689.4
50°	8183.6	8179.7	8434.5	8843.6	9392.2	10135.1	11129.7	10914.9	10465.1	10309.3	7457.7
52.5°	7012.5	7020.2	7521.3	8175.9	8990.9	10070.7	11450.5	11863.4	11634.7	11472.8	8123.0
55°	5897.5	5943.6	6298.8	7242.8	8375.5	9831.3	11561.0	12306.1	12280.0	12126.5	8492.9
57.5°	4805.5	4889.1	5231.4	6113.2	7476.8	9279.4	11500.3	12497.9	12760.4	12643.0	8981.0
60°	3622.1	3660.5	4054.9	4879.2	6323.4	8272.6	11060.6	12602.3	13417.4	13335.9	9689.3
62.5°	2304.6	2400.4	2750.4	3545.4	4923.7	6874.4	10319.3	12600.8	14239.2	14283.7	10603.2
65°	1214.0	1326.1	1511.8	2197.1	3383.5	5312.7	9204.2	12482.6	15247.6	15309.7	11317.7
67.5°	654.6	686.8	785.0	1140.4	1962.2	3599.1	7565.8	11899.4	15831.6	15913.7	11417.4
70°	478.8	496.5	533.3	630.8	987.6	2090.4	5520.7	10577.2	15078.8	15048.0	10144.4
72.5°	367.6	395.3	422.8	462.0	567.9	1115.8	3437.2	8282.6	12031.4	11828.8	7582.7
75°	290.1	294.6	333.9	369.1	425.9	635.4	1526.3	4823.9	7343.3	6863.6	3932.2
77.5°	231.8	234.8	257.9	288.5	342.3	417.4	472.8	1897.7	2344.4	2092.0	853.4
80°	137.4	145.0	191.8	222.5	283.9	263.3	172.7	412.1	366.1	331.5	143.5
82.5°	76.8	82.9	108.2	175.7	198.0	125.9	86.0	111.3	86.0	83.7	40.7
85°	0.0	3.8	69.9	109.0	80.6	27.7	36.1	36.8	25.3	23.8	16.1
87.5°	0.0	0.0	21.5	20.7	3.1	4.6	8.5	12.3	10.0	10.0	8.5
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°	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7	1485.7
2.5°	1514.9	1473.4	1395.2	1318.4	1254.0	1201.0	1153.4	1134.3	1118.9	1116.6	1104.3
5°	1582.4	1498.8	1349.1	1226.3	1144.2	1085.9	1036.0	1005.3	981.5	972.3	963.9
7.5°	1684.4	1557.8	1342.9	1201.8	1103.5	1005.3	913.2	813.4	751.3	727.5	713.7
10°	1808.8	1636.1	1366.0	1194.9	1022.9	815.8	663.1	536.4	485.0	468.1	463.5
12.5°	1953.8	1733.6	1405.9	1151.9	851.1	579.4	457.4	414.4	402.9	397.5	397.5
15°	2120.3	1840.3	1434.3	1027.6	629.3	438.2	396.0	376.1	363.8	356.9	357.6
17.5°	2290.7	1944.6	1420.4	847.2	464.3	389.9	358.4	336.8	320.0	313.1	311.6
20°	2462.6	2041.3	1343.8	630.8	392.9	353.8	318.5	294.6	277.8	270.9	269.4
22.5°	2640.7	2123.4	1208.7	462.7	353.0	313.8	279.4	255.5	239.4	233.3	230.2
25°	2814.1	2190.2	1019.9	374.5	315.4	276.3	243.2	221.1	206.4	200.3	199.5
27.5°	2976.0	2232.4	801.1	330.8	282.4	242.5	212.6	192.6	180.3	175.7	174.9
30°	3121.8	2236.2	592.5	298.6	253.3	213.3	185.8	168.1	157.3	152.7	151.2
32.5°	3269.2	2203.9	431.3	269.4	226.4	188.0	161.2	147.4	139.6	135.8	135.8
35°	3408.1	2129.5	336.1	244.1	200.3	163.5	142.0	132.0	127.4	123.5	123.5
37.5°	3543.9	2022.9	285.5	221.8	175.7	142.7	125.1	119.0	115.1	111.3	111.3
40°	3682.0	1888.6	259.3	201.0	155.8	126.6	111.3	105.9	102.1	99.0	98.2
42.5°	3851.6	1733.6	242.5	181.8	138.1	112.1	98.2	92.1	89.1	86.0	84.4
45°	4048.0	1600.0	228.7	162.6	123.5	99.8	85.1	79.1	74.4	70.6	69.9
47.5°	4331.2	1503.3	210.3	142.0	109.7	86.7	73.7	66.8	59.9	56.0	55.2
50°	4692.7	1423.5	186.5	123.5	95.9	73.7	61.4	52.9	46.9	42.9	42.9
52.5°	4872.3	1319.2	165.0	107.4	80.6	62.1	49.8	39.9	36.8	33.0	33.0
55°	4944.4	1239.3	143.5	91.3	66.8	51.4	39.1	30.7	28.4	26.1	25.3
57.5°	5147.0	1216.3	125.1	77.5	55.2	40.7	29.9	23.0	21.5	18.4	18.4
60°	5473.1	1227.9	108.2	66.0	44.5	31.5	22.3	17.6	16.1	13.0	13.0
62.5°	5825.3	1213.2	91.3	56.8	34.6	23.0	15.4	13.0	13.0	7.6	6.9
65°	5892.9	1080.5	78.2	46.9	26.8	16.9	10.0	8.5	11.6	1.5	0.0
67.5°	5469.3	838.0	67.5	36.1	19.9	13.0	7.6	3.8	10.0	0.0	0.0
70°	4373.4	532.6	54.5	26.1	15.4	10.7	6.1	1.5	7.6	0.0	0.0
72.5°	3092.6	309.3	42.9	18.4	13.0	8.5	4.6	0.0	4.6	0.0	0.0
75°	1564.0	165.0	26.8	13.8	10.0	6.1	3.1	0.0	0.7	0.0	0.0
77.5°	338.4	76.8	16.9	10.0	6.9	3.8	1.5	0.0	0.0	0.0	0.0
80°	73.7	33.7	10.7	6.1	3.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.8	17.6	5.4	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	9.2	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.1	0.7	0.7	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)