

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: P382881

Luminaire Tested: **GLEON-SA2C-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11036 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

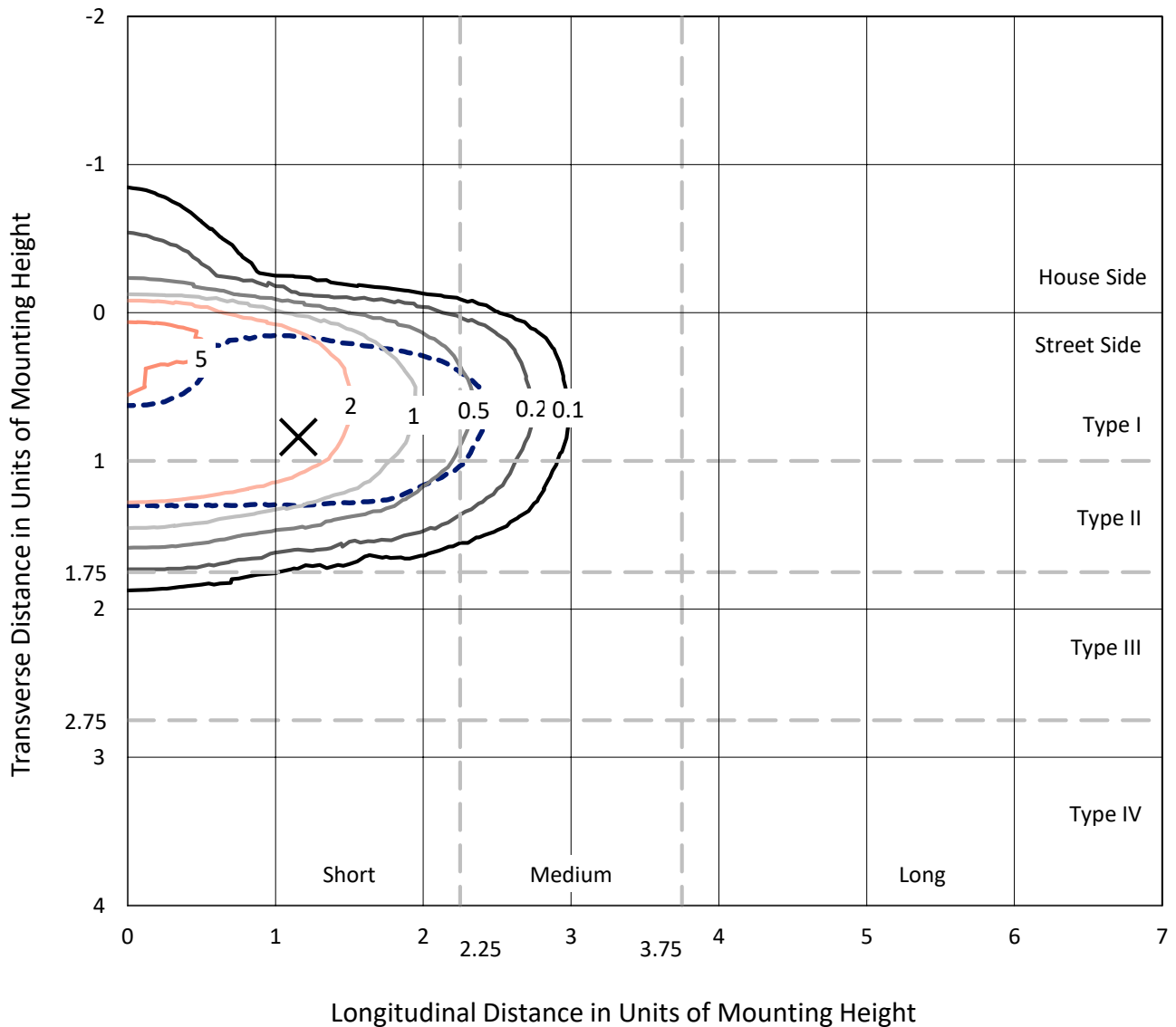
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

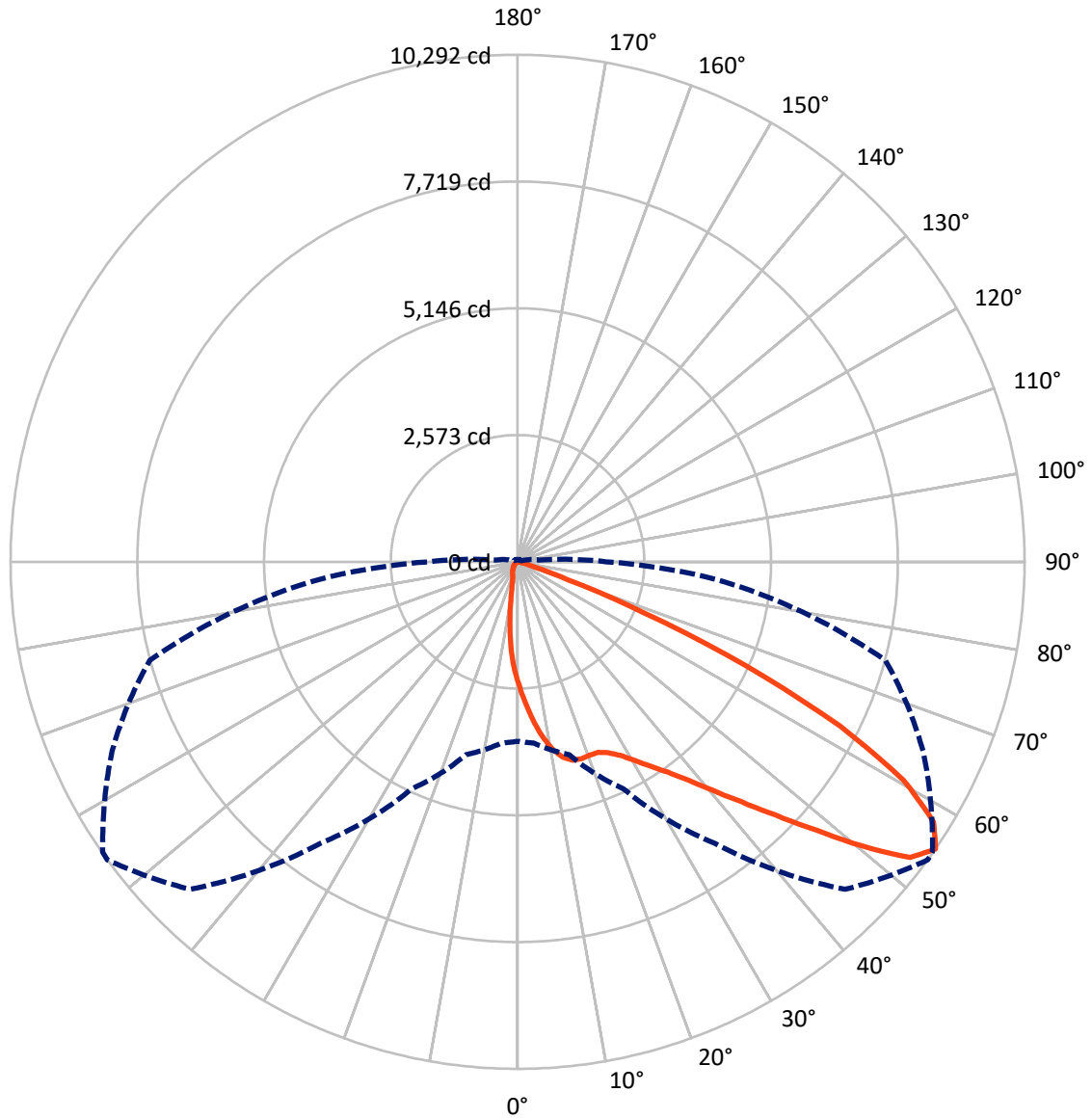
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	550.6	0.0	550.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	10485.4	0.0	10485.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	11036.0	0.0	11036.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	2.1
10°-20°	624.2	5.7
20°-30°	1065.8	9.7
30°-40°	1710.4	15.5
40°-50°	2733.2	24.8
50°-60°	2928.7	26.5
60°-70°	1503.7	13.6
70°-80°	227.8	2.1
80°-90°	14.8	0.1
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°	11036.0	100.0
0°-180°	11036.0	100.0

**Coefficient of Utilization**

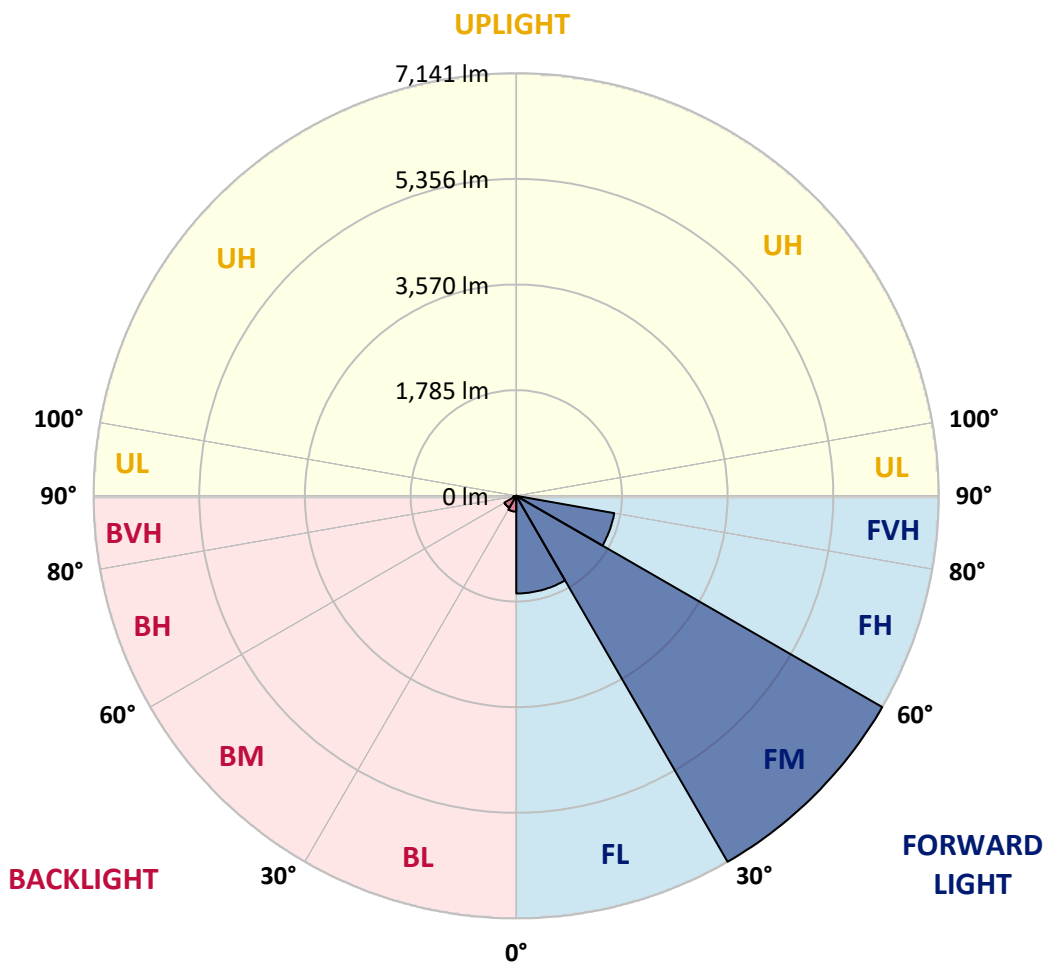


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.7	14.9			
FM (30°-60°)	7140.8	64.7			
FH (60°-80°)	1680.7	15.2			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	267.9	2.4	B1/500		
BM (30°-60°)	231.4	2.1	B1/1000		
BH (60°-80°)	50.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7
2.5°	3101.7	3055.5	3056.9	3035.9	2959.2	2899.2	2836.7	2821.9	2724.7	2622.7	2524.5
5°	3637.9	3604.1	3596.0	3555.4	3448.7	3335.7	3214.7	3186.5	2996.3	2787.7	2582.2
7.5°	3913.3	3913.8	3907.1	3892.4	3825.7	3716.0	3568.3	3538.8	3280.0	2966.8	2642.2
10°	3833.2	3851.4	3888.6	3937.7	3988.6	3974.8	3863.8	3837.0	3555.9	3156.5	2708.9
12.5°	3646.4	3648.8	3690.3	3770.8	3917.6	4068.3	4070.1	4061.1	3819.4	3354.8	2782.3
15°	3553.5	3562.5	3577.8	3629.8	3768.9	4010.1	4182.6	4195.5	4061.1	3565.4	2860.5
17.5°	3614.5	3627.4	3614.5	3620.7	3701.2	3918.1	4202.1	4235.0	4272.2	3773.7	2934.4
20°	3779.8	3791.8	3768.9	3743.7	3759.4	3891.4	4188.3	4232.7	4437.6	3958.6	2996.3
22.5°	4003.0	4007.7	3973.0	3931.4	3920.0	3982.0	4199.8	4245.5	4570.1	4125.9	3035.4
25°	4248.4	4252.7	4209.3	4161.7	4134.5	4159.7	4293.7	4328.0	4686.9	4285.6	3057.8
27.5°	4515.8	4519.6	4465.3	4406.6	4375.2	4376.1	4448.5	4485.2	4811.3	4467.6	3076.0
30°	4798.4	4796.4	4746.4	4664.9	4624.9	4623.9	4671.6	4708.8	4991.4	4701.1	3100.7
32.5°	5115.8	5112.0	5041.0	4939.9	4894.6	4901.3	4943.7	4965.1	5214.9	4950.0	3145.1
35°	5533.8	5522.8	5415.6	5290.3	5206.8	5204.5	5240.1	5257.4	5500.0	5251.1	3219.0
37.5°	6076.1	6066.1	5920.7	5738.7	5621.4	5577.6	5620.0	5641.9	5906.5	5637.6	3337.6
40°	6610.9	6600.9	6514.6	6347.8	6167.1	6061.9	6095.2	6118.6	6414.1	6106.7	3487.2
42.5°	6979.8	6988.4	7018.4	7032.2	6863.0	6641.8	6657.1	6681.4	6947.4	6608.0	3658.4
45°	7077.0	7095.6	7265.2	7598.4	7661.8	7489.3	7329.6	7342.9	7489.3	7109.4	3829.5
47.5°	6784.8	6819.1	7146.6	7766.1	8302.8	8424.8	8122.6	8105.0	8009.2	7515.0	3951.0
50°	6120.9	6152.4	6576.5	7493.1	8497.2	9317.9	9073.0	9021.0	8465.3	7757.6	3993.9
52.5°	5160.1	5198.2	5542.8	6633.3	8130.7	9716.4	9972.8	9929.5	8799.9	7776.7	4001.0
55°	3644.0	3690.3	4054.8	5083.8	6969.3	9399.4	10291.6	10278.8	9077.7	7726.1	4016.3
57.5°	2047.9	2081.3	2474.5	3258.9	5104.3	8187.0	9958.5	10043.8	9245.5	7638.4	4039.2
60°	909.4	918.4	1121.9	1622.3	2988.2	6256.7	9004.8	9148.7	9101.6	7521.1	4077.8
62.5°	504.2	496.6	496.6	674.3	1298.8	3873.3	7342.9	7580.7	8487.2	7382.5	4079.7
65°	395.1	388.0	367.5	370.3	494.7	1719.1	5084.9	5507.6	7320.6	6976.0	3942.4
67.5°	335.1	328.8	308.3	300.2	307.4	567.1	2793.8	3232.7	5554.7	5919.3	3414.8
70°	283.1	278.8	268.3	258.3	240.2	280.2	1069.0	1367.3	3422.9	3937.7	2331.0
72.5°	227.9	225.9	229.7	221.1	199.3	186.9	365.5	442.8	1537.5	1757.2	960.3
75°	196.4	195.4	197.3	188.7	164.0	130.1	185.8	203.0	433.7	429.9	194.4
77.5°	127.7	129.1	163.5	159.7	141.0	86.7	96.2	103.9	131.5	98.7	59.1
80°	81.5	80.6	82.9	132.5	126.8	66.2	48.2	50.5	63.3	48.6	28.6
82.5°	49.6	48.6	54.3	61.9	63.9	46.2	29.5	30.0	39.6	31.5	15.3
85°	4.3	5.7	32.9	30.5	21.9	14.3	14.3	15.3	21.0	18.6	8.6
87.5°	0.0	0.0	5.7	8.6	4.8	5.2	5.2	5.7	8.1	8.1	4.3
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°	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7	2471.7
2.5°	2473.5	2424.0	2323.9	2227.6	2146.1	2067.5	1977.9	1889.3	1847.7	1831.0	1813.9
5°	2477.8	2375.8	2169.5	1961.7	1746.3	1552.2	1386.9	1217.3	1132.4	1095.2	1078.1
7.5°	2483.5	2328.2	1994.5	1645.7	1298.8	1035.6	805.9	658.1	594.3	584.3	559.5
10°	2484.5	2270.5	1791.6	1296.8	870.7	624.3	480.4	404.2	376.1	371.3	363.2
12.5°	2486.4	2202.4	1566.1	960.3	580.5	417.5	347.5	322.2	314.6	314.1	314.1
15°	2492.2	2130.8	1332.1	692.0	417.1	330.8	305.0	295.0	292.1	293.6	293.1
17.5°	2492.2	2046.5	1102.4	515.7	336.9	297.3	283.1	276.4	275.5	276.9	277.4
20°	2474.0	1944.0	891.7	401.3	298.8	275.9	263.1	256.9	254.5	255.4	255.9
22.5°	2430.7	1818.2	720.2	332.2	273.6	256.5	242.6	233.1	229.3	229.7	229.7
25°	2363.0	1669.1	563.3	287.4	253.1	235.4	219.2	208.3	205.9	205.4	206.3
27.5°	2276.2	1504.2	448.4	253.1	228.8	212.1	195.9	186.9	184.9	185.4	185.8
30°	2190.9	1333.0	353.6	224.0	201.6	185.8	173.5	169.2	169.2	170.7	171.1
32.5°	2112.7	1168.6	279.7	198.7	177.3	163.0	155.8	155.4	157.7	158.7	159.2
35°	2045.6	1016.6	231.6	179.2	158.3	145.9	143.5	145.3	148.2	150.2	150.6
37.5°	1997.9	880.8	202.5	163.0	143.5	133.5	132.9	136.8	140.6	144.9	145.9
40°	1977.9	765.9	182.5	148.7	131.5	123.9	122.5	127.7	134.9	141.0	142.1
42.5°	1961.2	672.0	165.3	134.9	122.0	111.0	110.6	117.3	125.9	132.0	133.5
45°	1946.9	596.7	149.6	120.1	109.6	95.3	96.8	105.4	112.0	118.7	120.1
47.5°	1917.3	534.7	132.5	104.3	90.5	81.5	84.4	91.9	97.3	107.2	108.6
50°	1864.5	484.2	114.9	85.3	73.9	70.5	74.8	80.1	86.7	95.3	96.2
52.5°	1828.7	446.1	99.6	71.4	61.0	61.9	66.2	68.2	72.0	75.3	74.3
55°	1808.2	425.2	87.2	61.9	52.0	54.8	55.8	53.4	51.5	48.2	46.7
57.5°	1805.8	406.1	77.7	53.8	45.7	47.2	43.9	35.8	29.1	25.2	24.3
60°	1802.0	382.7	70.1	45.3	40.5	38.6	31.5	19.6	13.8	12.9	12.9
62.5°	1760.5	346.4	64.4	38.1	34.3	29.1	18.1	9.0	7.6	8.1	8.1
65°	1628.5	296.0	58.6	31.0	27.2	21.0	9.0	5.2	2.9	3.4	3.4
67.5°	1384.6	236.0	52.4	23.8	20.5	13.3	5.2	2.4	0.0	0.0	0.0
70°	927.0	146.3	44.3	16.7	13.3	8.1	3.8	0.5	0.0	0.0	0.0
72.5°	355.6	79.1	35.8	10.0	8.6	5.7	2.4	0.0	0.0	0.0	0.0
75°	80.1	52.0	24.8	7.2	6.2	3.8	0.9	0.0	0.0	0.0	0.0
77.5°	30.5	37.6	14.3	4.8	4.3	2.4	0.0	0.0	0.0	0.0	0.0
80°	14.8	22.4	6.7	2.9	2.4	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	8.6	2.9	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	4.3	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.4	0.5	0.5	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)