

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: P383064

Luminaire Tested: **GLEON-SA4A-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383064  
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-SA4A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 14135.3 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

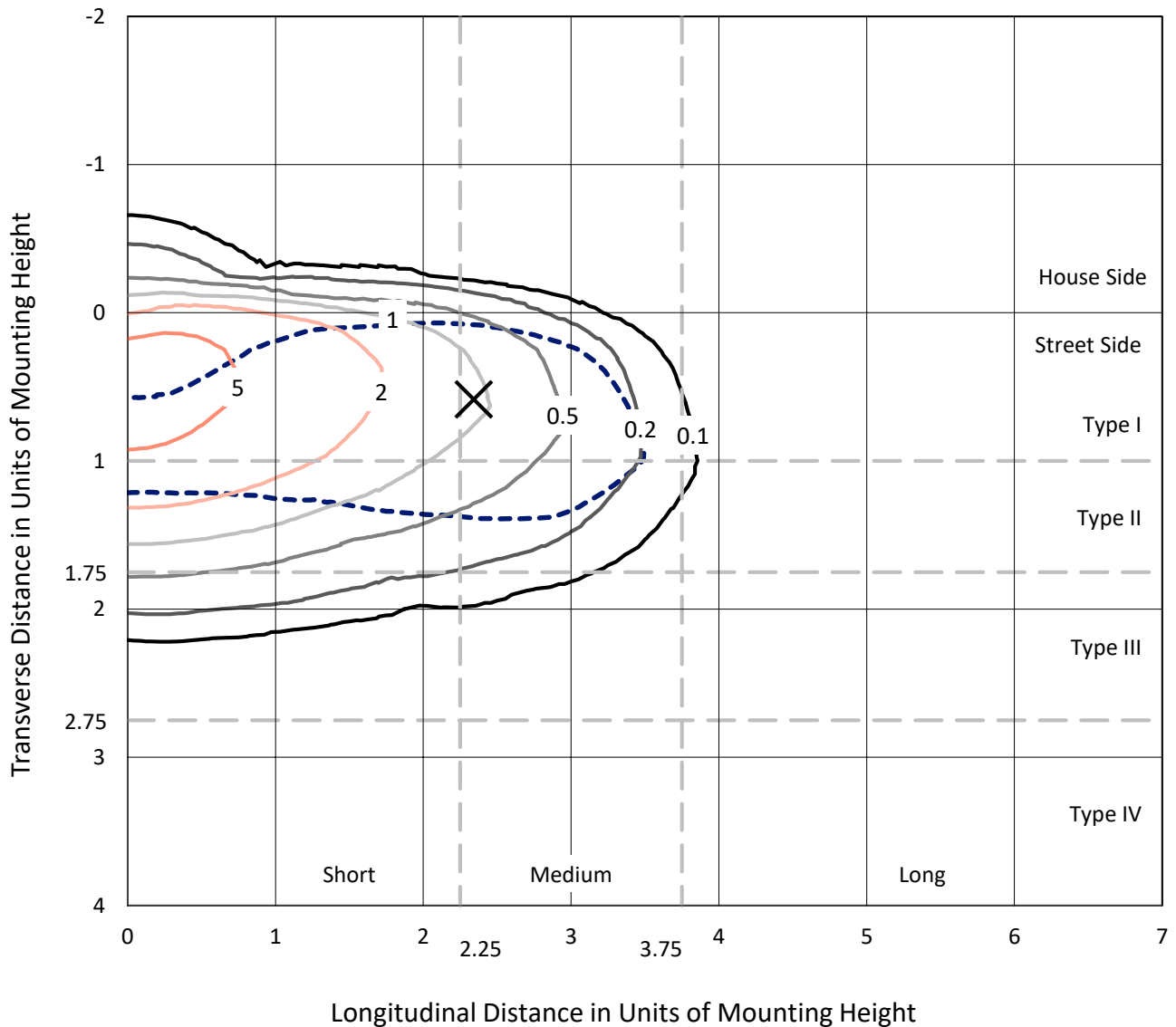
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

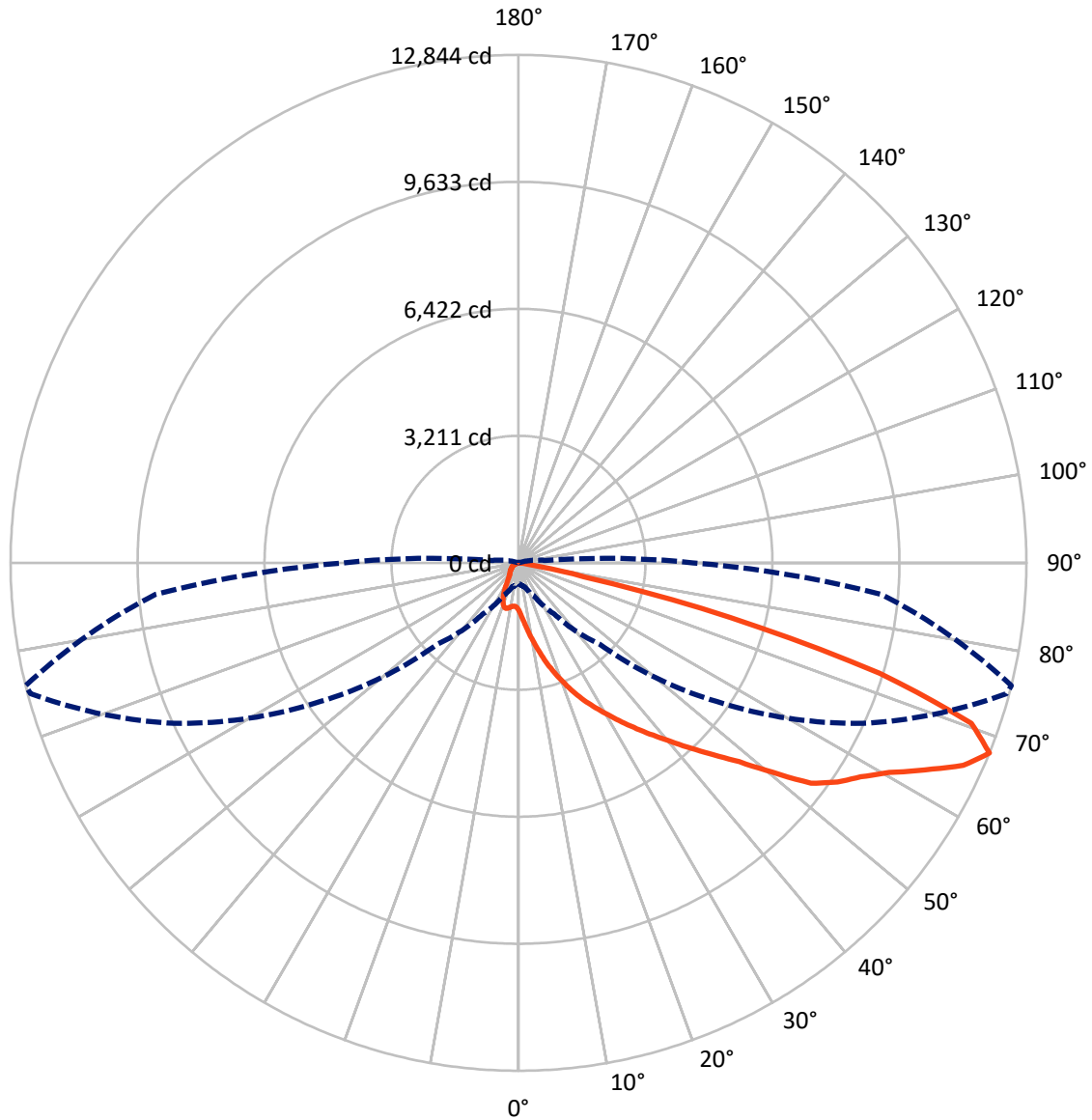
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	701.9	0.0	701.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	13433.4	0.0	13433.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	14135.3	0.0	14135.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.1	1.1
10°-20°	591.1	4.2
20°-30°	1202.6	8.5
30°-40°	2087.4	14.8
40°-50°	2949.2	20.9
50°-60°	3344.5	23.7
60°-70°	2774.0	19.6
70°-80°	1004.8	7.1
80°-90°	32.6	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°	14135.3	100.0
0°-180°	14135.3	100.0

**Coefficient of Utilization**

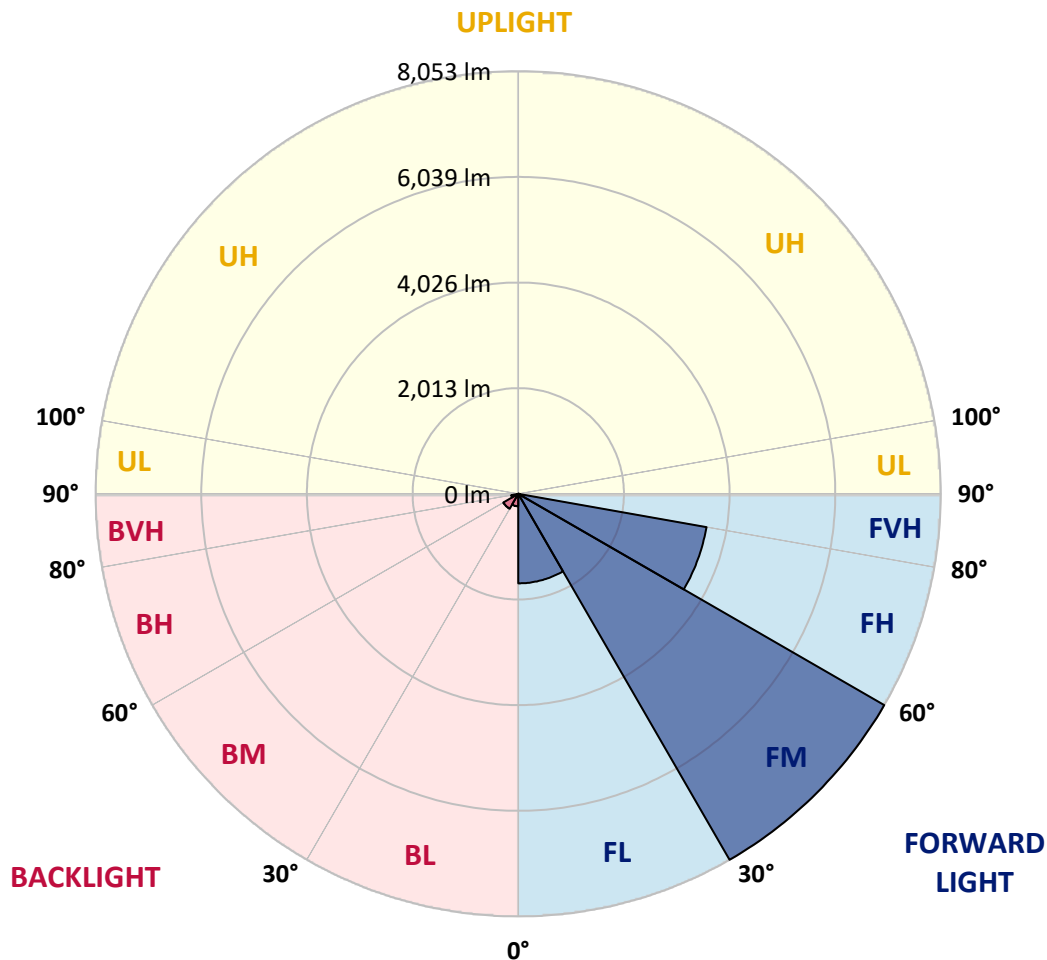


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.1	12.1			
FM (30°-60°)	8052.6	57.0			
FH (60°-80°)	3643.1	25.8			G2/5000
FVH (80°-90°)	31.6	0.2			G1/100
BL (0°-30°)	236.7	1.7	B1/500		
BM (30°-60°)	328.5	2.3	B1/1000		
BH (60°-80°)	135.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1
2.5°	1790.0	1749.7	1758.9	1733.0	1685.9	1589.3	1506.9	1428.9	1337.8	1334.7	1259.8
5°	2413.6	2379.5	2375.3	2322.6	2237.1	2073.0	1913.2	1731.1	1527.9	1513.1	1353.9
7.5°	2979.7	2952.5	2942.6	2880.1	2720.9	2561.1	2353.0	2085.4	1767.6	1740.4	1480.9
10°	3414.5	3401.5	3404.0	3359.4	3223.2	3074.5	2801.3	2460.1	2039.5	1997.4	1633.3
12.5°	3744.1	3747.2	3769.4	3742.2	3666.0	3555.7	3264.0	2859.6	2340.6	2282.9	1807.3
15°	3986.2	4001.6	4042.5	4076.6	4071.0	3975.7	3708.1	3265.3	2660.1	2596.3	2001.2
17.5°	4142.9	4160.3	4219.7	4295.3	4364.7	4342.3	4136.7	3656.7	2983.5	2909.8	2208.6
20°	4280.4	4300.9	4364.7	4464.3	4593.8	4621.7	4486.6	4036.4	3306.2	3216.4	2423.0
22.5°	4578.3	4577.7	4616.7	4675.0	4798.2	4870.0	4784.5	4388.8	3625.1	3531.6	2641.6
25°	5117.2	5096.7	5083.1	5037.3	5064.5	5109.1	5061.4	4718.3	3945.9	3851.2	2863.3
27.5°	5757.6	5770.0	5659.7	5536.5	5441.1	5395.2	5317.2	5023.6	4254.4	4150.3	3080.1
30°	6433.3	6437.0	6306.9	6149.6	5939.6	5765.6	5630.6	5315.3	4571.5	4458.2	3290.7
32.5°	7042.8	7018.6	6889.8	6675.5	6410.4	6214.6	5934.1	5641.2	4907.2	4797.6	3524.8
35°	7525.9	7497.4	7340.7	7145.5	6870.5	6673.6	6336.1	5966.3	5260.3	5153.0	3759.5
37.5°	7878.9	7845.4	7684.4	7483.8	7246.5	7131.9	6802.4	6320.0	5645.5	5530.3	4006.7
40°	8001.5	7972.4	7871.5	7724.7	7533.9	7507.9	7297.3	6726.9	6064.7	5942.2	4286.6
42.5°	7928.4	7900.0	7864.0	7814.5	7735.2	7760.0	7764.4	7190.8	6530.5	6409.8	4595.7
45°	7638.6	7613.2	7650.3	7722.8	7821.3	7944.0	8190.4	7689.4	7050.8	6922.0	4953.0
47.5°	7211.9	7193.2	7296.1	7477.0	7764.9	8103.1	8580.0	8213.4	7634.9	7515.4	5399.0
50°	6604.9	6601.8	6807.4	7137.5	7580.4	8179.9	8982.6	8809.2	8446.2	8320.5	6018.9
52.5°	5659.7	5666.0	6070.3	6598.7	7256.5	8127.8	9241.5	9574.7	9390.1	9259.5	6556.0
55°	4759.8	4796.9	5083.7	5845.6	6759.7	7934.6	9330.7	9932.1	9911.0	9787.1	6854.5
57.5°	3878.4	3945.9	4222.1	4933.8	6034.5	7489.3	9281.8	10086.9	10298.7	10204.0	7248.4
60°	2923.4	2954.3	3272.7	3937.9	5103.6	6676.7	8926.8	10171.1	10828.9	10763.3	7820.1
62.5°	1859.9	1937.3	2219.8	2861.4	3973.8	5548.2	8328.6	10169.9	11492.2	11528.2	8557.8
65°	979.8	1070.3	1220.1	1773.2	2730.7	4287.8	7428.6	10074.5	12306.1	12356.2	9134.4
67.5°	528.3	554.4	633.6	920.4	1583.7	2904.8	6106.3	9603.8	12777.4	12843.7	9214.9
70°	386.5	400.8	430.5	509.1	797.1	1687.1	4455.7	8536.6	12169.8	12145.1	8187.4
72.5°	296.7	319.0	341.2	372.9	458.3	900.5	2774.1	6684.8	9710.4	9546.9	6119.9
75°	234.1	237.8	269.4	297.9	343.7	512.8	1231.9	3893.3	5926.7	5539.5	3173.6
77.5°	187.1	189.6	208.1	232.9	276.2	336.9	381.6	1531.7	1892.2	1688.3	688.7
80°	110.9	117.1	154.8	179.6	229.2	212.5	139.4	332.6	295.4	267.5	115.8
82.5°	61.9	66.9	87.3	141.9	159.8	101.5	69.4	89.8	69.4	67.5	32.8
85°	0.0	3.1	56.4	87.9	65.0	22.3	29.1	29.7	20.4	19.2	13.0
87.5°	0.0	0.0	17.3	16.8	2.5	3.7	6.8	9.9	8.0	8.0	6.8
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°	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1	1199.1
2.5°	1222.7	1189.2	1126.0	1064.1	1012.0	969.3	930.9	915.4	903.0	901.2	891.3
5°	1277.2	1209.6	1088.8	989.8	923.4	876.4	836.2	811.4	792.2	784.7	777.9
7.5°	1359.5	1257.3	1083.9	969.9	890.7	811.4	737.0	656.6	606.3	587.2	576.0
10°	1459.8	1320.5	1102.5	964.3	825.6	658.4	535.2	432.9	391.4	377.8	374.1
12.5°	1576.9	1399.1	1134.6	929.7	686.8	467.6	369.2	334.4	325.2	320.8	320.8
15°	1711.3	1485.3	1157.5	829.4	507.9	353.6	319.6	303.5	293.5	288.0	288.6
17.5°	1848.7	1569.5	1146.5	683.8	374.7	314.7	289.2	271.9	258.3	252.7	251.4
20°	1987.5	1647.5	1084.5	509.1	317.1	285.5	257.0	237.8	224.2	218.6	217.4
22.5°	2131.2	1713.8	975.5	373.5	284.9	253.3	225.4	206.2	193.2	188.3	185.8
25°	2271.2	1767.6	823.1	302.3	254.6	223.0	196.4	178.4	166.7	161.6	161.1
27.5°	2401.9	1801.7	646.6	267.0	227.9	195.7	171.6	155.5	145.5	141.9	141.2
30°	2519.6	1804.8	478.2	240.9	204.4	172.1	149.9	135.6	127.0	123.2	122.0
32.5°	2638.5	1778.8	348.1	217.4	182.7	151.7	130.0	119.0	112.7	109.6	109.6
35°	2750.6	1718.7	271.3	196.9	161.6	131.9	114.6	106.6	102.8	99.7	99.7
37.5°	2860.2	1632.6	230.4	179.0	141.9	115.2	101.0	96.0	92.9	89.8	89.8
40°	2971.7	1524.3	209.3	162.3	125.8	102.2	89.8	85.5	82.3	79.9	79.3
42.5°	3108.6	1399.1	195.7	146.8	111.5	90.5	79.3	74.3	71.8	69.4	68.1
45°	3267.1	1291.4	184.5	131.3	99.7	80.5	68.7	63.8	60.1	57.0	56.4
47.5°	3495.6	1213.3	169.7	114.6	88.6	70.0	59.4	53.8	48.3	45.2	44.6
50°	3787.4	1148.9	150.5	99.7	77.4	59.4	49.6	42.8	37.8	34.7	34.7
52.5°	3932.3	1064.7	133.1	86.7	65.0	50.2	40.2	32.2	29.7	26.6	26.6
55°	3990.6	1000.3	115.8	73.7	53.8	41.5	31.6	24.8	22.9	21.1	20.4
57.5°	4154.1	981.7	101.0	62.6	44.6	32.8	24.1	18.5	17.3	14.9	14.9
60°	4417.3	991.0	87.3	53.3	36.0	25.4	18.0	14.3	13.0	10.5	10.5
62.5°	4701.6	979.2	73.7	45.8	27.9	18.5	12.4	10.5	10.5	6.1	5.6
65°	4756.1	872.0	63.2	37.8	21.7	13.6	8.0	6.8	9.3	1.2	0.0
67.5°	4414.2	676.3	54.5	29.1	16.1	10.5	6.1	3.1	8.0	0.0	0.0
70°	3529.7	429.8	44.0	21.1	12.4	8.7	4.9	1.2	6.1	0.0	0.0
72.5°	2496.0	249.6	34.7	14.9	10.5	6.8	3.7	0.0	3.7	0.0	0.0
75°	1262.2	133.1	21.7	11.2	8.0	4.9	2.5	0.0	0.7	0.0	0.0
77.5°	273.1	61.9	13.6	8.0	5.6	3.1	1.2	0.0	0.0	0.0	0.0
80°	59.4	27.3	8.7	4.9	3.1	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	21.7	14.3	4.4	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	7.5	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.5	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)