

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: P324944

Luminaire Tested: **GLEON-SA0D-827-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324944  
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-SA0D-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 1200mA 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: 46216 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

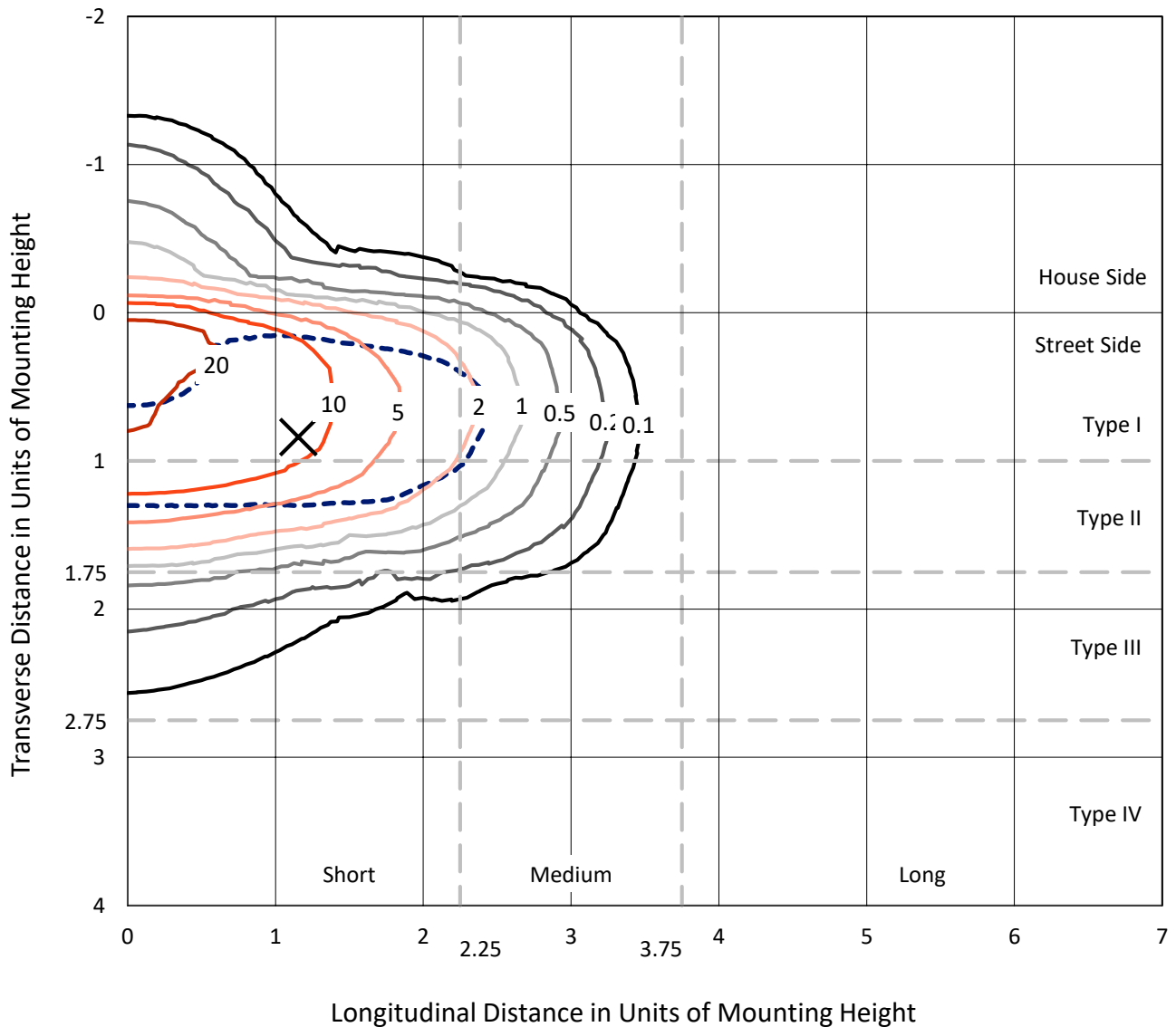
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

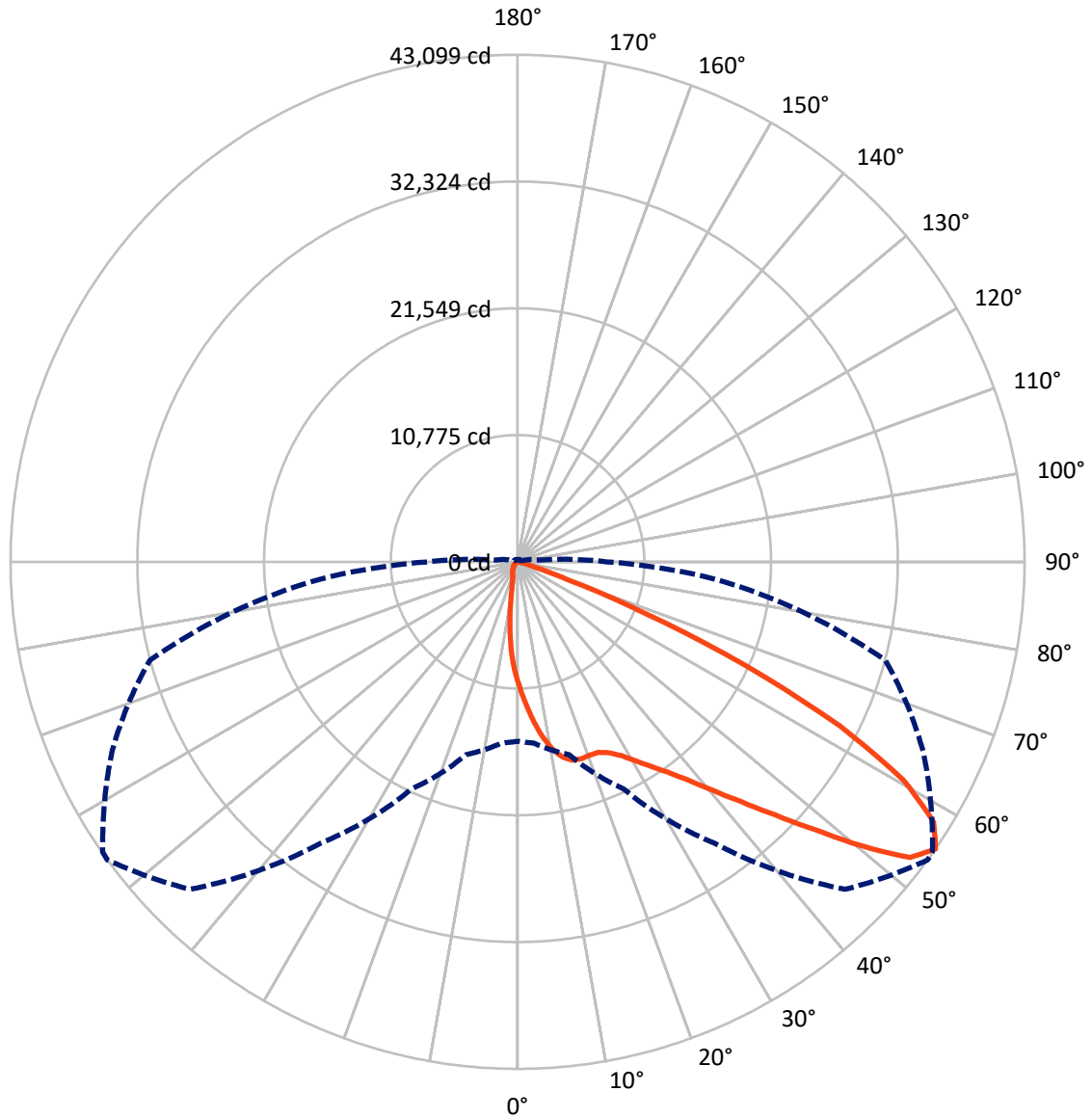
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 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	2305.8	0.0	2305.8
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	43910.2	0.0	43910.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	46216.0	0.0	46216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	953.2	2.1
10°-20°	2614.1	5.7
20°-30°	4463.1	9.7
30°-40°	7162.5	15.5
40°-50°	11445.8	24.8
50°-60°	12264.4	26.5
60°-70°	6296.9	13.6
70°-80°	953.8	2.1
80°-90°	62.1	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°	46216.0	100.0
0°-180°	46216.0	100.0

**Coefficient of Utilization**

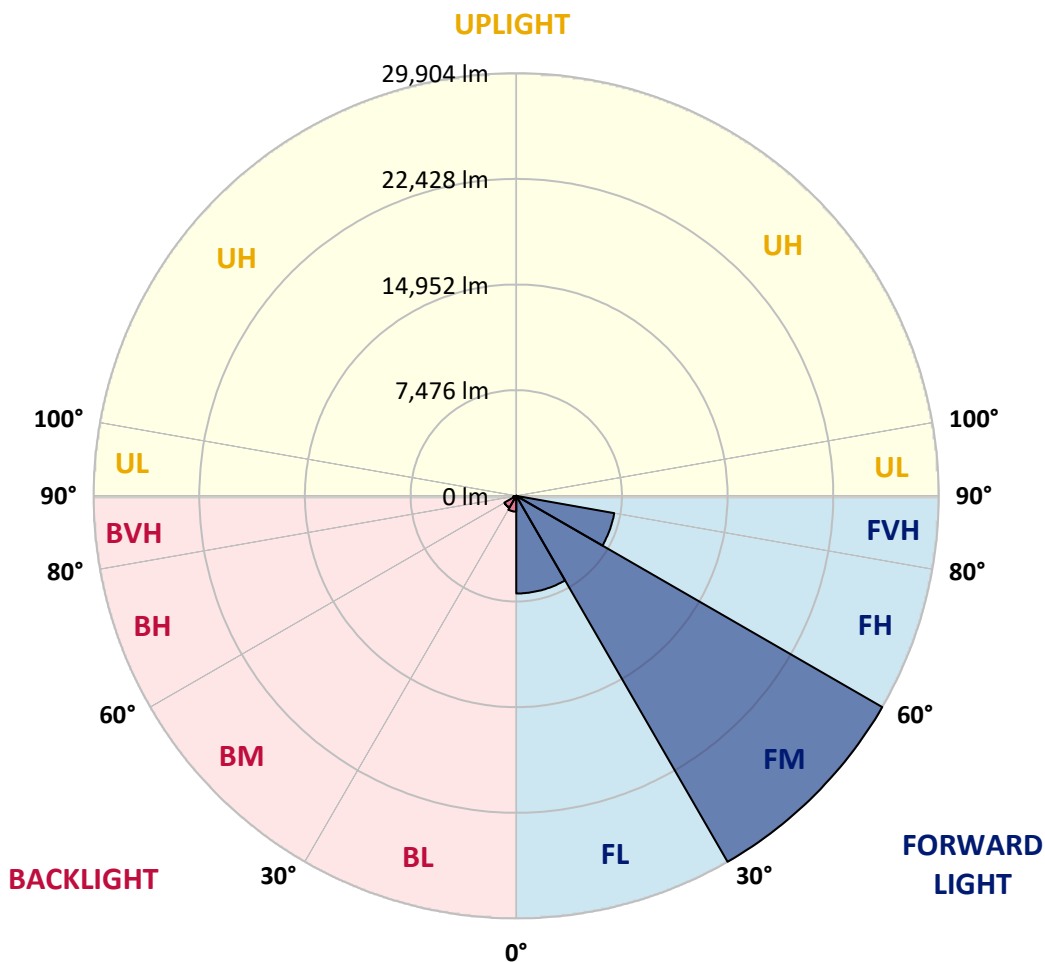


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6908.5	14.9			
FM (30°-60°)	29903.8	64.7			
FH (60°-80°)	7038.3	15.2			G3/7500
FVH (80°-90°)	59.6	0.1			G1/100
BL (0°-30°)	1121.9	2.4	B3/2500		
BM (30°-60°)	969.0	2.1	B1/1000		
BH (60°-80°)	212.5	0.5	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5
2.5°	12989.1	12795.5	12801.4	12713.6	12392.3	12140.8	11879.4	11817.5	11410.3	10983.2	10572.1
5°	15234.4	15092.7	15058.8	14889.1	14442.0	13969.0	13462.1	13344.3	12548.0	11673.8	10813.6
7.5°	16388.0	16390.0	16362.1	16300.2	16020.8	15561.7	14943.0	14819.3	13735.5	12424.2	11065.0
10°	16052.7	16128.5	16284.2	16489.8	16703.4	16645.5	16180.4	16068.7	14891.1	13218.6	11344.5
12.5°	15270.3	15280.3	15453.9	15791.2	16406.0	17036.7	17044.6	17006.7	15994.8	14048.9	11651.8
15°	14881.1	14919.1	14982.9	15200.5	15783.3	16793.2	17515.7	17569.6	17006.7	14931.0	11979.2
17.5°	15136.6	15190.5	15136.6	15162.5	15499.8	16408.0	17597.5	17735.2	17890.9	15803.2	12288.5
20°	15829.2	15879.1	15783.3	15677.5	15743.3	16296.2	17539.6	17725.2	18583.5	16577.6	12548.0
22.5°	16763.2	16783.2	16637.5	16463.8	16415.9	16675.4	17587.5	17779.1	19138.3	17278.2	12711.6
25°	17791.1	17809.1	17627.4	17427.8	17314.1	17419.9	17980.7	18124.4	19627.3	17946.8	12805.4
27.5°	18910.8	18926.7	18699.2	18453.7	18322.0	18326.0	18629.4	18783.0	20148.2	18709.2	12881.3
30°	20094.3	20086.3	19876.8	19535.5	19367.8	19363.8	19563.4	19719.1	20902.6	19687.2	12985.1
32.5°	21423.6	21407.6	21110.2	20687.1	20497.5	20525.4	20703.1	20792.9	21838.7	20729.0	13170.7
35°	23173.9	23128.0	22679.0	22154.0	21804.8	21794.8	21944.5	22016.3	23032.2	21990.4	13480.0
37.5°	25445.2	25403.3	24794.6	24032.1	23541.2	23357.5	23535.2	23627.0	24734.7	23609.0	13977.0
40°	27684.6	27642.7	27281.4	26582.9	25826.4	25385.3	25525.1	25622.8	26860.3	25573.0	14603.7
42.5°	29229.4	29265.3	29391.0	29448.9	28740.4	27814.3	27878.2	27980.0	29093.6	27672.6	15320.2
45°	29636.5	29714.4	30424.9	31820.0	32085.4	31362.9	30694.3	30750.2	31362.9	29772.2	16036.7
47.5°	28413.1	28556.8	29927.9	32522.5	34769.9	35280.8	34015.4	33941.6	33540.4	31470.7	16545.7
50°	25632.8	25764.6	27540.9	31378.9	35584.2	39021.1	37995.2	37777.6	35450.5	32486.6	16725.3
52.5°	21609.2	21768.8	23211.8	27778.4	34049.4	40689.6	41763.4	41581.7	36851.6	32566.4	16755.2
55°	15260.3	15453.9	16980.8	21289.8	29185.5	39362.3	43098.6	43044.7	38015.1	32354.9	16819.1
57.5°	8576.2	8715.9	10362.5	13647.7	21375.7	34284.9	41703.5	42060.8	38717.7	31987.6	16914.9
60°	3808.1	3846.0	4698.3	6793.9	12514.0	26201.6	37709.8	38312.5	38114.9	31496.7	17076.6
62.5°	2111.6	2079.7	2079.7	2824.1	5438.7	16220.4	30750.2	31746.1	35542.3	30915.9	17084.6
65°	1654.6	1624.6	1538.8	1550.8	2071.7	7199.1	21293.8	23064.2	30656.4	29213.4	16509.8
67.5°	1403.1	1377.1	1291.3	1257.4	1287.3	2375.1	11699.7	13537.9	23261.7	24788.6	14300.3
70°	1185.5	1167.6	1123.7	1081.8	1005.9	1173.6	4476.7	5726.1	14334.3	16489.8	9761.8
72.5°	954.0	946.0	962.0	926.1	834.3	782.4	1530.8	1854.2	6438.6	7358.7	4021.7
75°	822.3	818.3	826.3	790.4	686.6	544.9	778.4	850.2	1816.2	1800.3	814.3
77.5°	534.9	540.9	684.6	668.6	590.8	363.2	403.2	435.1	550.9	413.1	247.5
80°	341.3	337.3	347.3	554.8	530.9	277.4	201.6	211.6	265.4	203.6	119.8
82.5°	207.6	203.6	227.5	259.5	267.4	193.6	123.7	125.7	165.7	131.7	63.9
85°	18.0	24.0	137.7	127.7	91.8	59.9	59.9	63.9	87.8	77.8	35.9
87.5°	0.0	0.0	24.0	35.9	20.0	22.0	22.0	24.0	33.9	33.9	18.0
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°	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5	10350.5
2.5°	10358.5	10150.9	9731.8	9328.6	8987.4	8658.0	8282.8	7911.6	7737.9	7668.1	7596.2
5°	10376.5	9949.4	9085.2	8215.0	7312.8	6500.5	5808.0	5097.4	4742.2	4586.5	4514.6
7.5°	10400.4	9749.8	8352.7	6891.7	5438.7	4337.0	3375.0	2756.3	2488.8	2446.9	2343.1
10°	10404.4	9508.3	7502.4	5430.7	3646.4	2614.6	2011.8	1692.5	1574.7	1554.8	1520.8
12.5°	10412.4	9222.9	6558.4	4021.7	2431.0	1748.4	1455.0	1349.2	1317.3	1315.3	1315.3
15°	10436.4	8923.5	5578.4	2898.0	1746.4	1385.1	1277.4	1235.4	1223.5	1229.4	1227.5
17.5°	10436.4	8570.2	4616.4	2159.5	1411.1	1245.4	1185.5	1157.6	1153.6	1159.6	1161.6
20°	10360.5	8141.1	3734.3	1680.5	1251.4	1155.6	1101.7	1075.8	1065.8	1069.8	1071.8
22.5°	10178.9	7614.2	3015.7	1391.1	1145.6	1073.8	1015.9	976.0	960.0	962.0	962.0
25°	9895.5	6989.5	2359.1	1203.5	1059.8	986.0	918.1	872.2	862.2	860.2	864.2
27.5°	9532.2	6298.9	1878.1	1059.8	958.0	888.2	820.3	782.4	774.4	776.4	778.4
30°	9175.0	5582.4	1480.9	938.1	844.2	778.4	726.5	708.5	708.5	714.5	716.5
32.5°	8847.6	4893.8	1171.6	832.3	742.5	682.6	652.6	650.7	660.6	664.6	666.6
35°	8566.2	4257.2	970.0	750.4	662.6	610.7	600.8	608.7	620.7	628.7	630.7
37.5°	8366.6	3688.3	848.2	682.6	600.8	558.8	556.8	572.8	588.8	606.7	610.7
40°	8282.8	3207.3	764.4	622.7	550.9	518.9	512.9	534.9	564.8	590.8	594.8
42.5°	8213.0	2814.2	692.6	564.8	510.9	465.0	463.0	491.0	526.9	552.9	558.8
45°	8153.1	2498.8	626.7	503.0	459.0	399.2	405.2	441.1	469.0	497.0	503.0
47.5°	8029.3	2239.4	554.8	437.1	379.2	341.3	353.3	385.2	407.2	449.1	455.1
50°	7807.8	2027.8	481.0	357.3	309.4	295.4	313.3	335.3	363.2	399.2	403.2
52.5°	7658.1	1868.1	417.1	299.4	255.5	259.5	277.4	285.4	301.4	315.3	311.4
55°	7572.3	1780.3	365.2	259.5	217.5	229.5	233.5	223.5	215.6	201.6	195.6
57.5°	7562.3	1700.5	325.3	225.5	191.6	197.6	183.6	149.7	121.7	105.8	101.8
60°	7546.3	1602.7	293.4	189.6	169.6	161.7	131.7	81.8	57.9	53.9	53.9
62.5°	7372.7	1451.0	269.4	159.7	143.7	121.7	75.8	37.9	31.9	33.9	33.9
65°	6819.9	1239.4	245.5	129.7	113.8	87.8	37.9	22.0	12.0	14.0	14.0
67.5°	5798.0	988.0	219.5	99.8	85.8	55.9	22.0	10.0	0.0	0.0	0.0
70°	3881.9	612.7	185.6	69.9	55.9	33.9	16.0	2.0	0.0	0.0	0.0
72.5°	1488.9	331.3	149.7	41.9	35.9	24.0	10.0	0.0	0.0	0.0	0.0
75°	335.3	217.5	103.8	29.9	25.9	16.0	4.0	0.0	0.0	0.0	0.0
77.5°	127.7	157.7	59.9	20.0	18.0	10.0	0.0	0.0	0.0	0.0	0.0
80°	61.9	93.8	27.9	12.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.9	35.9	12.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	18.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	6.0	2.0	2.0	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)