

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: P269379

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-AFL-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 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: 27775.9 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 382  
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: 25 FT

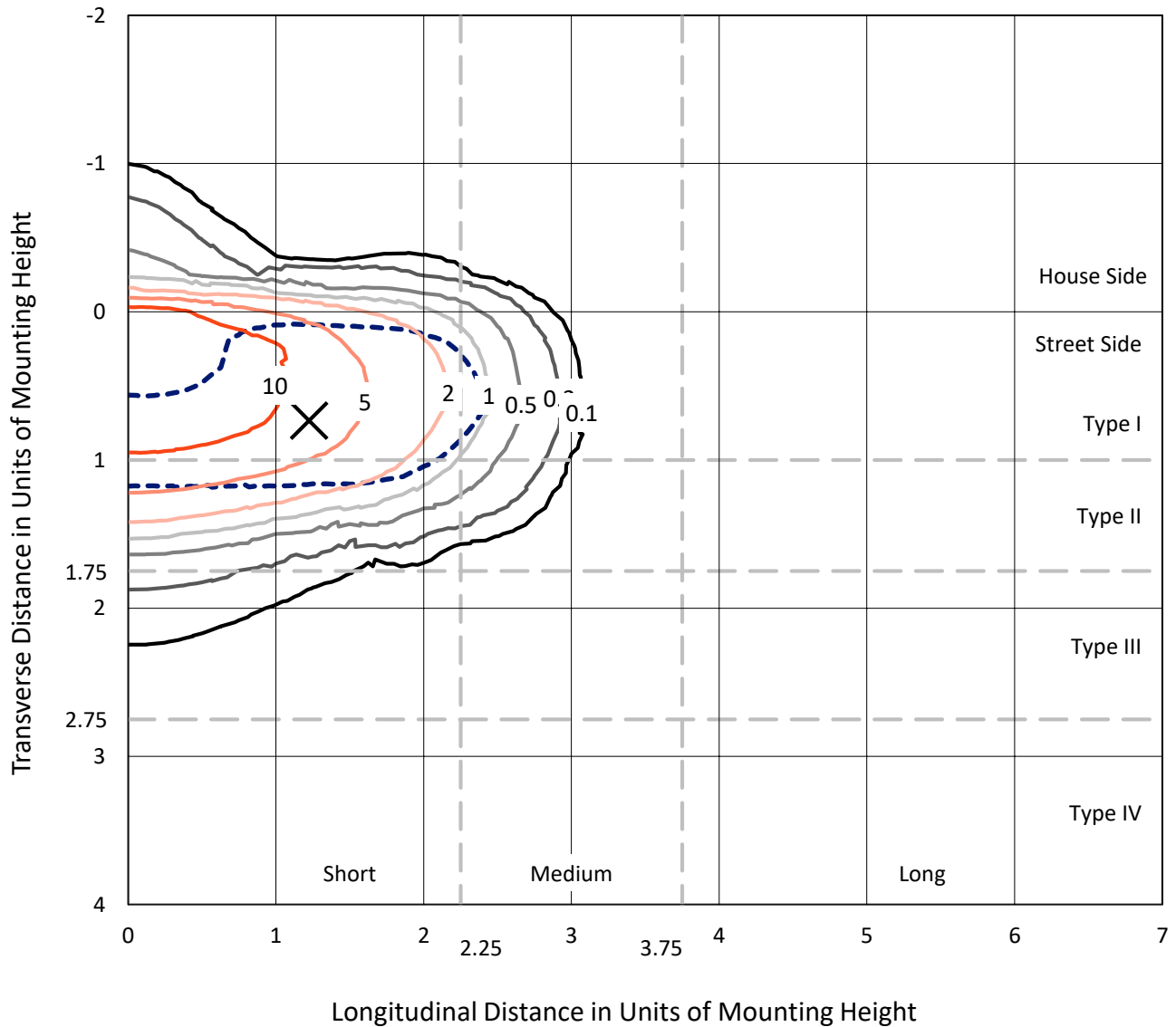


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

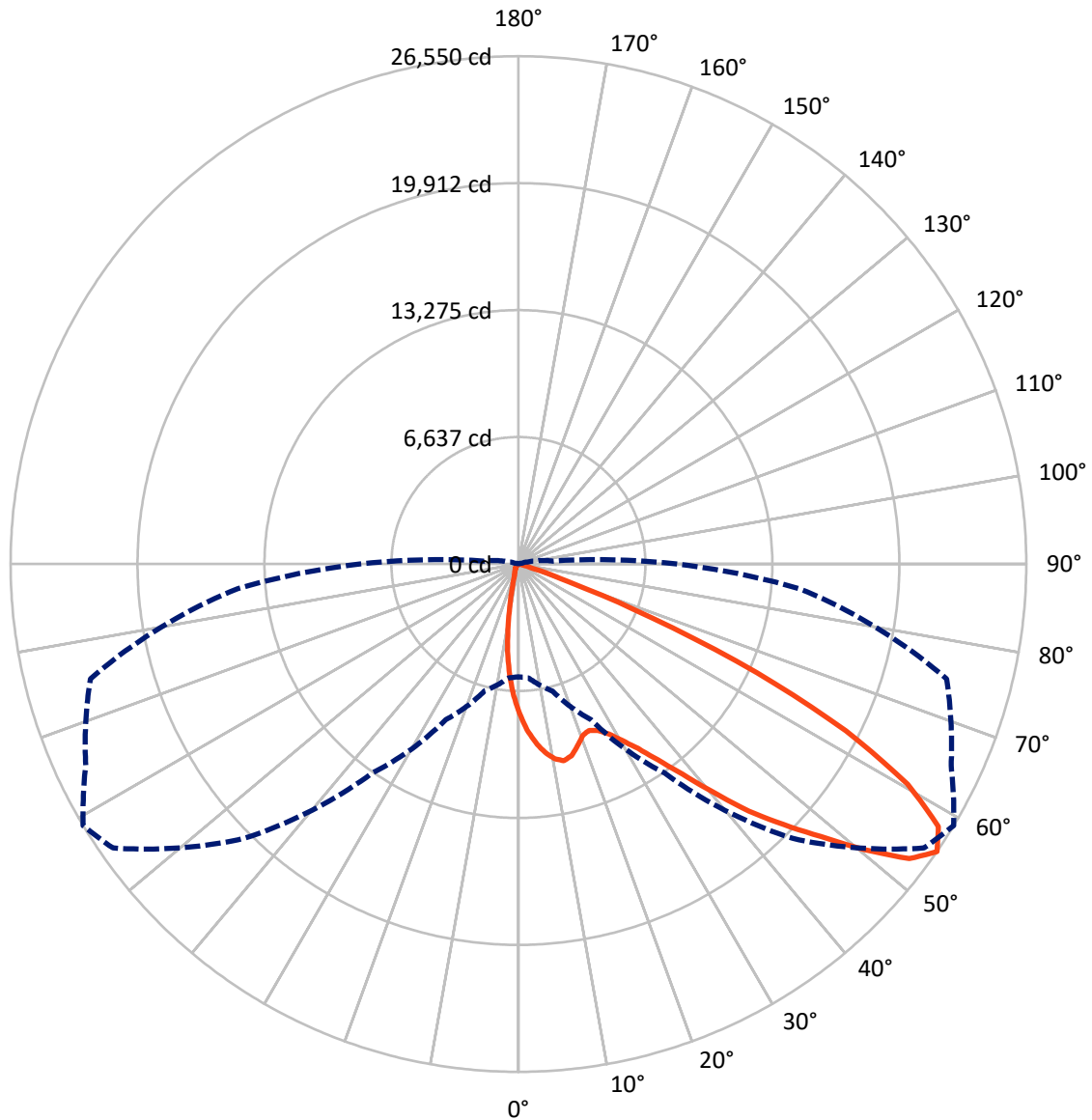


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1551.4	0.0	1551.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	26224.5	0.0	26224.5
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	27775.9	0.0	27775.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.9	2.4
10°-20°	1568.0	5.6
20°-30°	2668.2	9.6
30°-40°	4588.7	16.5
40°-50°	7084.5	25.5
50°-60°	7122.1	25.6
60°-70°	3652.3	13.1
70°-80°	395.8	1.4
80°-90°	41.4	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°	27775.9	100.0
0°-180°	27775.9	100.0

**Coefficient of Utilization**



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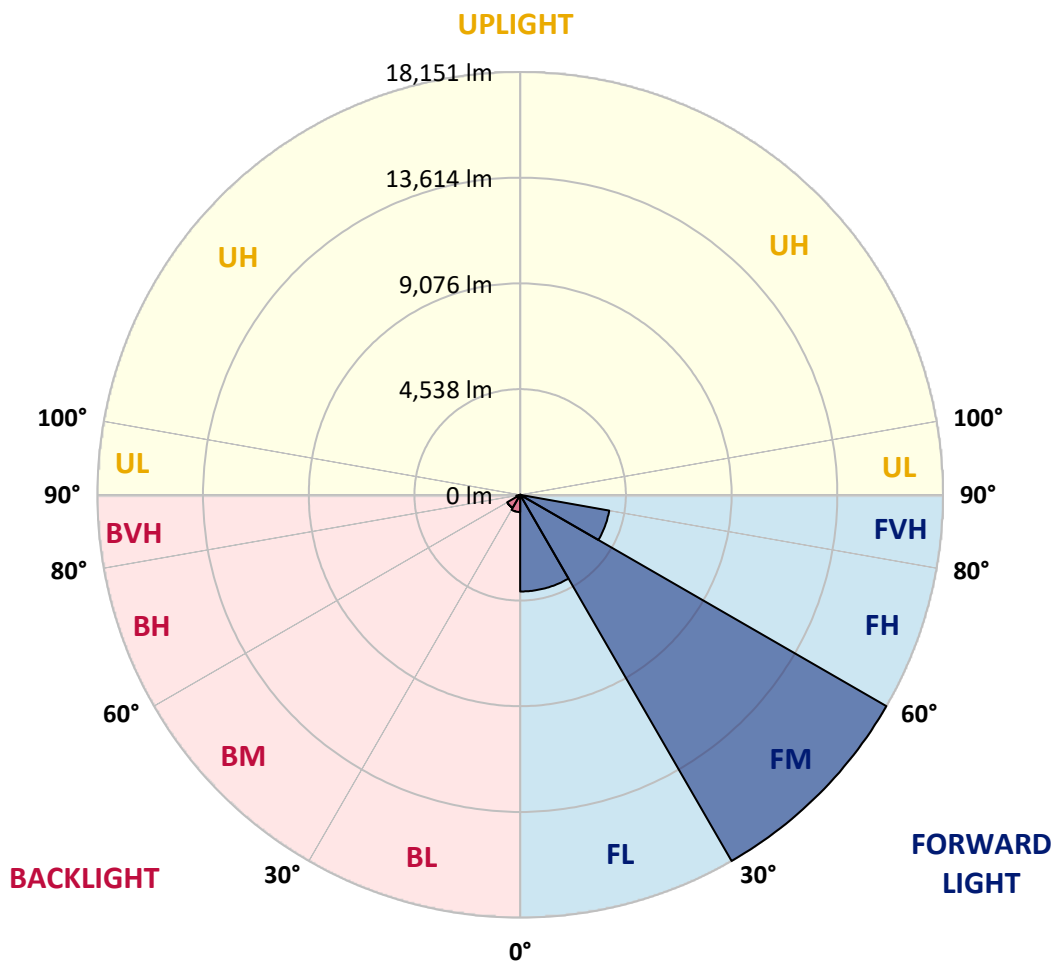
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4150.6	14.9			
FM	(30°-60°)	18151.4	65.3			
FH	(60°-80°)	3881.9	14.0			G2/5000
FVH	(80°-90°)	40.5	0.1			G1/100
BL	(0°-30°)	740.5	2.7	B2/1000		
BM	(30°-60°)	643.9	2.3	B1/1000		
BH	(60°-80°)	166.2	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8
2.5°	9251.5	9153.1	9123.5	9104.0	9013.8	8900.6	8746.5	8674.5	8526.9	8289.3	7997.5
5°	10098.8	10080.9	10015.4	9979.2	9882.6	9721.8	9476.0	9358.1	9123.5	8723.6	8200.7
7.5°	9728.5	9841.6	9931.8	10082.4	10272.7	10266.1	10059.6	9936.6	9674.3	9146.5	8427.0
10°	8297.5	8389.2	8536.8	8879.3	9577.6	10194.0	10436.6	10348.0	10138.2	9535.0	8645.0
12.5°	8017.2	8007.3	8033.5	8133.6	8499.0	9377.6	10372.6	10551.3	10508.7	9890.7	8851.4
15°	8166.3	8154.9	8151.6	8186.0	8274.5	8645.0	9892.3	10405.4	10734.8	10220.1	9026.9
17.5°	8584.4	8535.2	8508.9	8481.1	8454.8	8546.7	9315.3	9997.2	10769.3	10508.7	9172.8
20°	9300.6	9218.6	9122.0	8964.5	8817.0	8771.2	9072.8	9577.6	10646.4	10728.4	9267.9
22.5°	10200.6	10095.6	9928.4	9641.6	9341.7	9167.8	9192.4	9444.9	10462.7	10967.6	9312.1
25°	11211.8	11077.4	10854.6	10456.2	10015.4	9707.2	9546.5	9635.0	10379.1	11247.9	9362.9
27.5°	12295.5	12146.3	11854.5	11311.8	10811.9	10395.5	10067.8	10056.3	10521.8	11615.2	9444.9
30°	13369.0	13346.1	12965.7	12392.1	11729.9	11223.3	10751.3	10690.6	10920.2	12123.3	9607.2
32.5°	14801.6	14629.5	14164.0	13573.8	12810.1	12201.9	11643.0	11502.0	11531.5	12715.0	9857.9
35°	16608.0	16419.5	15763.8	14949.2	14095.1	13377.2	12759.3	12567.5	12495.3	13683.7	10280.8
37.5°	17775.1	17771.9	17360.5	16531.0	15614.7	14823.0	14150.9	13926.3	13780.4	14854.2	10936.5
40°	17806.3	17883.3	17937.4	17929.2	17276.8	16547.4	15950.8	15673.6	15334.3	16418.0	11784.0
42.5°	16850.6	17048.9	17525.9	18335.8	18722.6	18432.4	17929.2	17657.2	17152.2	18091.4	12816.7
45°	15559.0	15696.7	16531.0	18022.7	19506.1	20301.1	19917.5	19430.7	18765.1	19837.2	13742.8
47.5°	14980.3	15004.8	15544.2	17181.7	19565.1	21832.0	22064.8	21273.1	20230.5	21243.6	14467.3
50°	13251.0	13295.3	14039.5	15724.6	18873.4	22555.0	24222.0	23471.3	21828.8	22327.1	14731.1
52.5°	9987.4	10049.7	10993.8	13329.7	16971.9	22246.7	25766.1	25584.1	23579.4	22856.6	14745.9
55°	5892.8	5974.7	6876.3	8972.8	13349.4	20286.3	25880.8	26549.5	24961.3	23169.7	14723.0
57.5°	2752.1	2809.4	3325.9	4622.5	8302.3	16032.7	24153.1	25887.4	25723.4	23335.2	14885.3
60°	1462.1	1478.5	1603.1	2001.5	3752.0	10166.1	20781.4	23376.1	25028.4	23564.7	15083.6
62.5°	1117.9	1122.8	1116.2	1163.8	1576.9	4512.6	15708.1	19217.6	22230.4	23392.6	14864.0
65°	968.7	976.9	931.1	919.5	1011.3	1609.7	9331.8	13698.6	17468.6	21069.8	13367.4
67.5°	868.8	872.1	816.3	768.8	785.2	870.4	3681.6	7499.2	11562.7	15444.2	9689.1
70°	799.9	796.6	736.0	660.6	639.2	594.9	1170.3	2748.9	5525.7	7832.0	4506.1
72.5°	708.1	709.8	680.2	581.9	531.1	416.4	542.5	801.6	1649.0	2134.3	1055.6
75°	627.7	619.7	583.5	521.2	437.7	273.8	268.9	357.3	508.1	504.8	227.8
77.5°	454.1	445.9	457.3	427.9	336.1	177.1	134.3	172.1	206.5	200.1	63.9
80°	332.7	327.8	295.1	355.6	296.7	121.4	83.6	91.7	106.5	90.2	19.7
82.5°	227.8	226.3	208.1	196.6	168.8	73.8	52.5	57.4	68.8	50.8	9.8
85°	36.0	41.1	150.7	119.7	100.0	32.8	36.0	39.3	46.0	27.8	3.2
87.5°	0.0	0.0	70.4	62.3	19.7	13.1	21.3	22.9	22.9	14.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8	7818.8
2.5°	7848.3	7684.5	7381.2	7068.0	6777.9	6432.0	6194.4	6015.7	5809.2	5753.5	5874.7
5°	7902.4	7592.7	6940.2	6230.5	5563.4	4824.1	4258.5	3811.1	3406.3	3268.6	3393.1
7.5°	7987.6	7527.1	6463.2	5294.5	4134.0	2979.9	2189.9	1670.3	1339.3	1240.9	1293.3
10°	8072.9	7431.9	5910.8	4186.5	2599.8	1450.7	944.2	753.9	683.5	668.8	677.0
12.5°	8143.3	7304.1	5237.1	2976.8	1389.9	776.9	617.9	586.9	577.0	577.0	580.2
15°	8186.0	7110.8	4438.9	1893.3	799.9	586.9	539.3	529.5	529.5	531.1	534.4
17.5°	8181.0	6864.8	3565.3	1145.8	598.4	519.6	491.7	483.6	481.9	485.2	486.8
20°	8120.4	6543.6	2688.3	755.7	521.2	473.8	445.9	431.0	429.5	432.8	435.9
22.5°	8005.6	6146.9	1922.7	581.9	470.4	429.5	395.1	381.9	381.9	385.3	388.4
25°	7866.4	5661.7	1314.6	493.3	424.5	381.9	349.1	337.7	340.9	349.1	350.8
27.5°	7692.6	5115.8	893.4	422.9	368.8	334.3	309.7	301.7	309.7	321.2	324.6
30°	7543.4	4547.0	637.6	365.5	313.1	288.4	273.8	273.8	285.2	306.5	311.4
32.5°	7428.8	3996.3	491.7	322.9	272.0	250.7	242.6	250.7	268.9	290.2	295.1
35°	7413.9	3542.2	416.4	288.4	242.6	221.3	218.0	232.8	250.7	267.2	270.5
37.5°	7527.1	3122.6	375.4	260.6	216.4	196.6	193.4	211.5	229.4	249.2	254.1
40°	7741.9	2793.1	345.8	234.4	195.0	173.7	167.2	180.3	205.0	231.1	237.7
42.5°	8020.4	2521.1	313.1	208.1	173.7	144.3	136.1	150.7	177.1	205.0	213.1
45°	8286.0	2286.6	276.9	178.7	145.9	111.5	108.2	127.9	140.9	168.8	175.3
47.5°	8431.9	2080.0	245.9	145.9	113.0	90.2	90.2	95.1	108.2	140.9	147.5
50°	8382.8	1914.6	213.1	108.2	78.7	68.8	68.8	67.3	86.9	113.0	117.9
52.5°	8284.3	1819.4	183.7	83.6	54.1	49.1	44.2	49.1	60.6	72.1	73.8
55°	8269.5	1803.1	154.1	67.3	37.6	32.8	24.7	24.7	24.7	22.9	19.7
57.5°	8384.3	1829.3	129.4	54.1	27.8	21.3	13.1	0.0	0.0	0.0	0.0
60°	8502.4	1857.2	111.5	37.6	19.7	11.5	1.6	0.0	0.0	0.0	0.0
62.5°	8305.6	1795.0	93.5	22.9	14.7	4.9	0.0	0.0	0.0	0.0	0.0
65°	7295.9	1527.7	73.8	16.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5189.6	1022.8	49.1	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2368.7	427.9	31.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	506.6	132.8	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	103.2	96.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	32.8	152.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.7	109.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)