

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: P323634

Luminaire Tested: **GLEON-SA0A-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28969 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

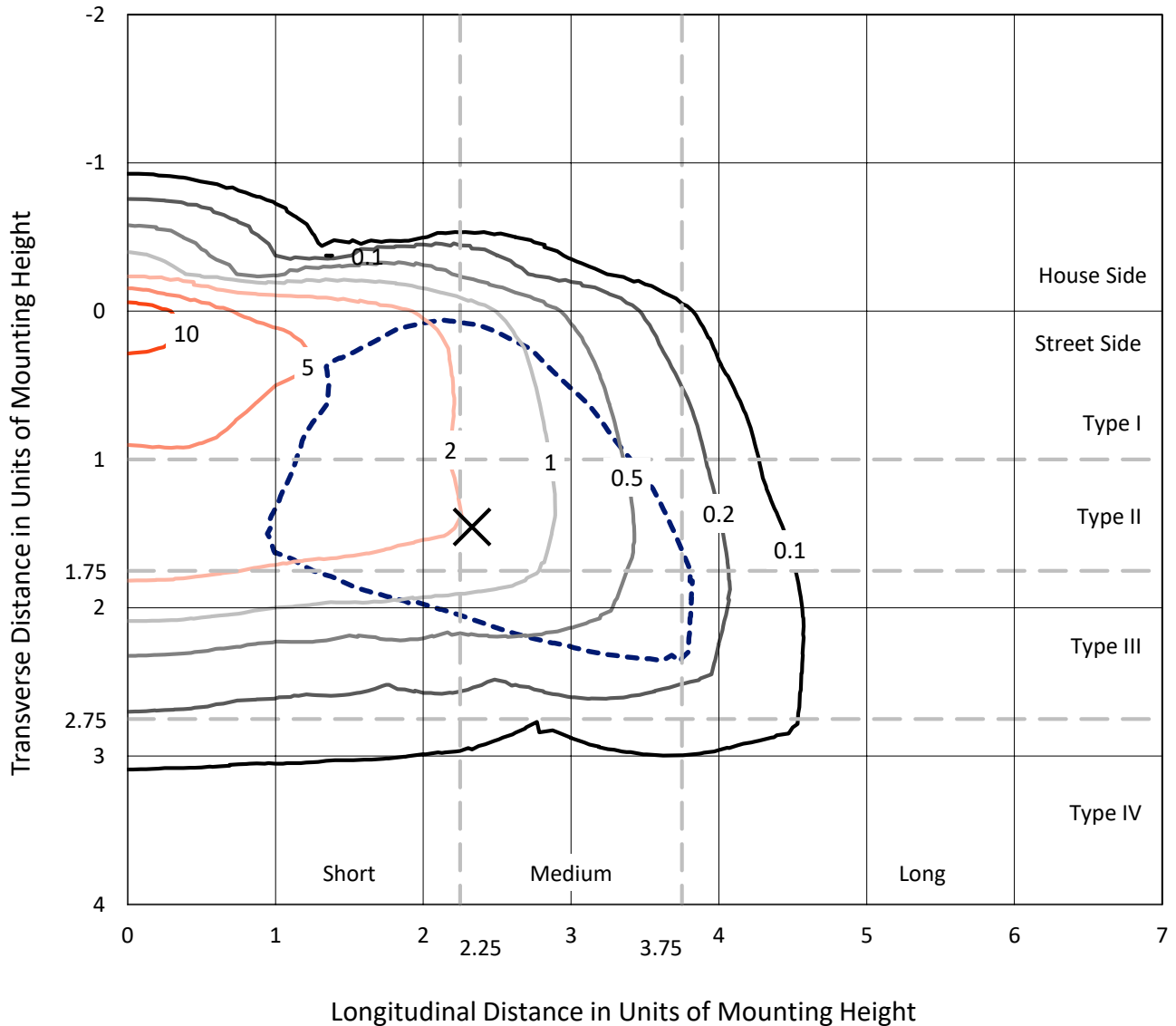
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

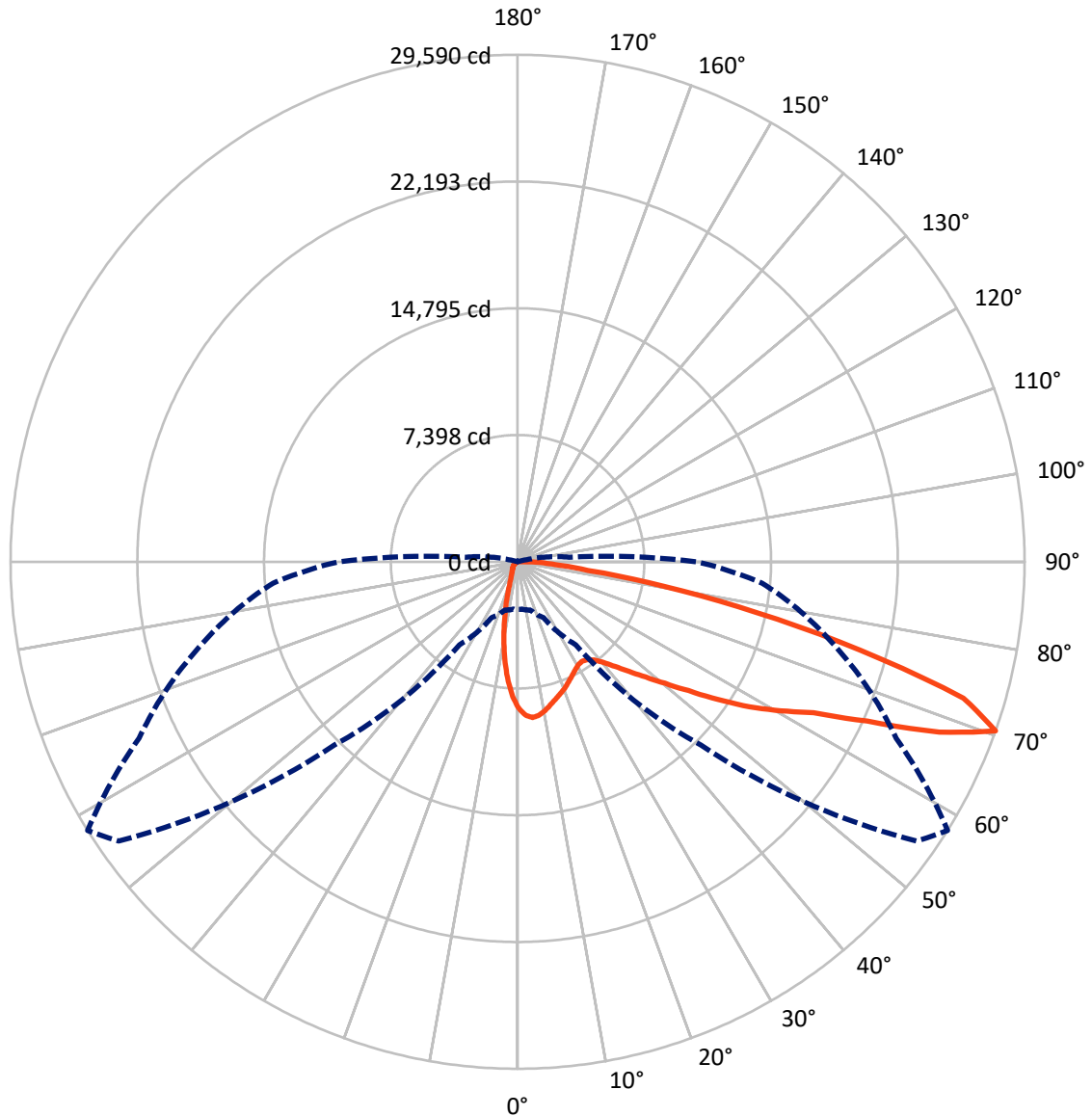
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2479.1	0.0	2479.1
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	26489.9	0.0	26489.9
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	28969.0	0.0	28969.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.8	2.4
10°-20°	1468.7	5.1
20°-30°	1930.8	6.7
30°-40°	2557.1	8.8
40°-50°	3822.1	13.2
50°-60°	6122.8	21.1
60°-70°	7717.7	26.6
70°-80°	4162.9	14.4
80°-90°	487.3	1.7
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°	28969.0	100.0
0°-180°	28969.0	100.0

**Coefficient of Utilization**

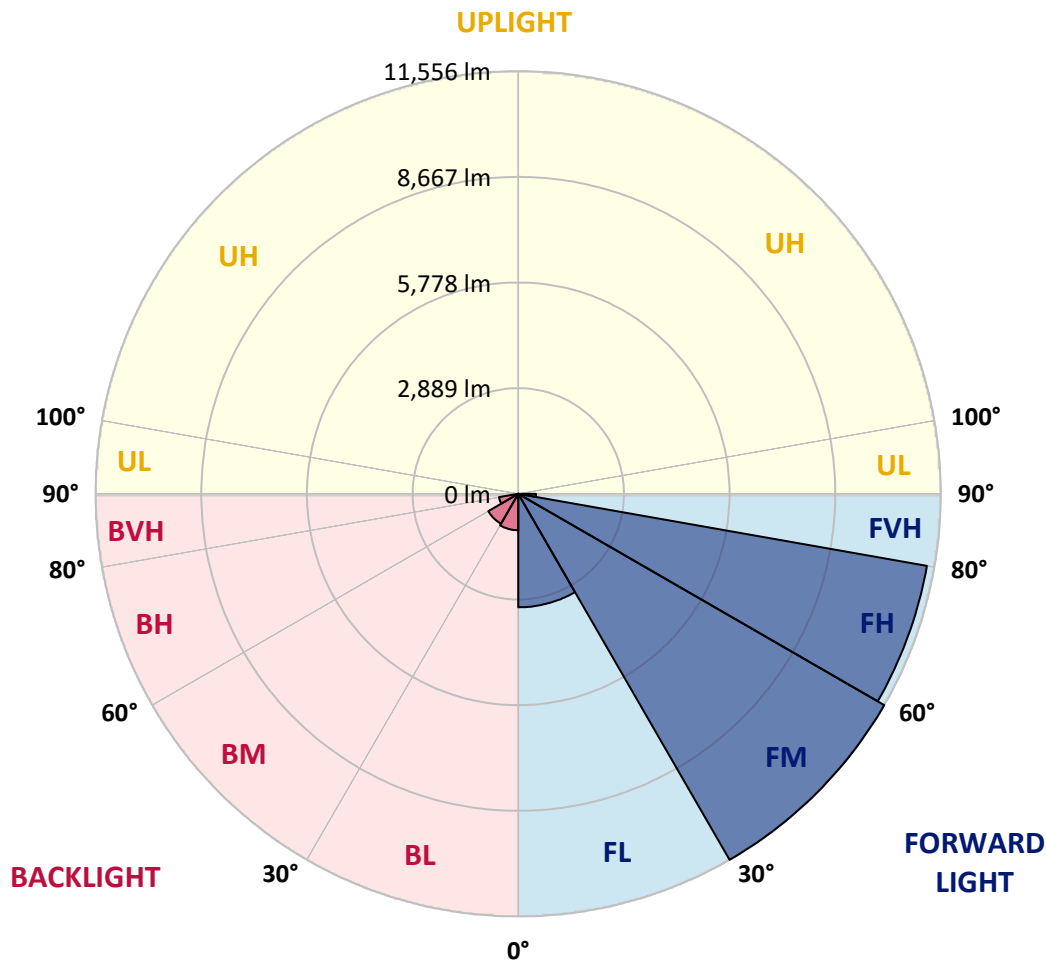


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3103.2	10.7			
FM (30°-60°)	11556.2	39.9			
FH (60°-80°)	11347.5	39.2			G4/12000
FVH (80°-90°)	483.1	1.7			G3/500
BL (0°-30°)	996.0	3.4	B2/1000		
BM (30°-60°)	945.7	3.3	B1/1000		
BH (60°-80°)	533.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.2	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3
2.5°	9266.8	9243.9	9235.5	9221.0	9165.6	9111.4	9004.2	8974.1	8906.6	8746.4	8576.6
5°	9274.0	9272.8	9298.1	9292.1	9272.8	9247.5	9170.4	9130.7	9016.2	8787.4	8476.6
7.5°	8827.1	8850.0	8906.6	8952.4	9005.4	9074.1	9083.7	9045.2	8951.2	8704.3	8292.3
10°	8227.3	8263.4	8342.9	8433.2	8571.8	8709.1	8831.9	8827.1	8794.6	8551.3	8070.7
12.5°	7626.2	7668.3	7759.9	7893.6	8089.9	8314.0	8533.2	8563.3	8617.5	8414.0	7865.9
15°	7099.8	7135.9	7226.2	7390.1	7633.4	7934.5	8256.2	8311.6	8451.3	8306.8	7694.8
17.5°	6652.9	6675.8	6742.0	6923.9	7205.8	7570.8	7988.7	8097.2	8305.5	8222.4	7546.7
20°	6340.9	6344.5	6387.9	6515.5	6797.4	7205.8	7711.7	7867.1	8151.4	8150.2	7393.7
22.5°	6186.7	6174.7	6183.1	6256.6	6463.8	6857.6	7434.6	7618.9	8012.8	8088.7	7238.3
25°	6157.8	6148.2	6124.1	6133.7	6259.0	6552.9	7155.2	7368.4	7891.2	8051.4	7103.4
27.5°	6248.1	6257.8	6216.8	6173.5	6183.1	6355.3	6907.0	7154.0	7792.4	8051.4	7008.2
30°	6430.0	6434.8	6404.7	6348.1	6272.2	6299.9	6734.8	6981.7	7743.0	8106.8	6948.0
32.5°	6631.2	6657.7	6654.1	6608.3	6499.9	6387.9	6693.8	6919.1	7739.4	8229.7	6942.0
35°	6880.5	6910.7	6961.2	6951.6	6838.4	6654.1	6833.6	7010.6	7810.5	8432.0	7007.0
37.5°	7145.5	7191.3	7299.7	7351.5	7278.0	7069.7	7146.7	7273.2	8000.8	8759.7	7172.0
40°	7402.1	7453.9	7651.5	7855.0	7799.6	7585.2	7621.4	7722.5	8339.3	9230.7	7485.2
42.5°	7653.9	7731.0	8021.3	8356.1	8422.4	8251.3	8270.6	8351.3	8841.6	9878.7	7997.2
45°	7955.0	8041.7	8471.8	8885.0	9062.0	8987.3	9069.3	9122.3	9498.1	10735.2	8687.4
47.5°	8397.1	8497.1	9024.7	9495.7	9806.5	9854.6	10019.7	10054.6	10328.0	11732.6	9587.2
50°	9259.6	9287.3	9764.3	10191.9	10640.0	10929.1	11117.0	11143.5	11332.6	12822.7	10711.1
52.5°	10344.9	10363.0	10632.8	10919.5	11429.0	12019.3	12458.9	12496.3	12536.0	13885.1	11820.5
55°	11423.0	11420.6	11598.9	11767.5	12350.5	13208.2	14162.2	14185.1	13899.6	14893.4	12668.5
57.5°	12096.3	12161.4	12432.4	12649.2	13463.5	14563.3	15887.1	15971.5	15331.8	15640.2	13506.9
60°	11881.9	11913.3	12514.3	13316.6	14850.0	16489.4	17632.6	17654.3	16408.7	16385.8	14566.9
62.5°	10123.3	10140.1	11084.5	12738.4	15552.3	18987.7	19738.2	19385.2	17647.0	17420.6	15835.4
65°	6938.4	7048.0	7837.0	9881.1	14262.2	20554.9	22997.8	22413.5	19534.6	18911.8	16982.1
67.5°	4085.9	4063.0	4453.3	5959.0	10475.0	19514.1	27121.0	26540.4	22108.8	19910.4	16646.0
70°	2791.0	2775.3	2924.7	3607.7	5913.3	15137.9	28418.3	29590.4	24381.8	19238.3	14326.0
72.5°	1992.4	2000.8	2221.2	2803.0	3712.5	8819.9	24438.4	27212.6	23669.9	16771.3	10889.4
75°	1352.7	1375.6	1691.2	2299.5	3254.8	4487.0	17342.3	20686.2	19274.4	12189.1	6259.0
77.5°	727.6	752.9	1125.1	1852.6	2942.8	3117.4	11155.6	14236.9	12107.2	5479.6	1814.1
80°	303.6	318.0	526.4	1346.7	2542.9	2738.0	6563.7	8633.2	5159.2	1080.5	404.7
82.5°	131.3	138.5	219.2	803.5	1900.8	2311.6	3475.2	4153.4	1563.5	237.3	203.6
85°	25.3	26.5	90.3	425.2	1213.0	1304.6	2252.6	2208.0	702.3	102.4	148.2
87.5°	0.0	0.0	21.7	133.7	356.6	710.7	1374.4	1357.6	238.5	49.4	55.4
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°	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3	8557.3
2.5°	8489.8	8406.7	8232.1	8016.5	7851.4	7669.5	7525.0	7341.9	7262.4	7266.0	7222.6
5°	8299.5	8128.5	7741.8	7254.0	6878.1	6490.3	6156.6	5824.1	5627.8	5563.9	5503.7
7.5°	8027.3	7756.3	7139.5	6387.9	5751.8	5130.3	4589.4	4113.6	3812.5	3665.5	3611.3
10°	7720.1	7339.5	6446.9	5456.7	4548.5	3707.7	3006.6	2397.1	2153.8	1988.8	1946.6
12.5°	7450.3	6934.7	5769.9	4501.5	3423.4	2409.2	1740.6	1361.2	1196.1	1131.1	1120.3
15°	7196.1	6556.5	5118.2	3636.6	2370.6	1482.8	1107.0	978.1	939.6	928.7	928.7
17.5°	6956.4	6196.3	4481.0	2785.0	1568.4	1039.5	916.7	887.8	875.7	874.5	875.7
20°	6705.9	5836.2	3854.6	2040.6	1095.0	880.5	846.8	831.2	827.5	827.5	827.5
22.5°	6466.2	5476.0	3245.1	1457.5	878.1	803.5	786.6	775.7	772.1	770.9	768.5
25°	6236.1	5133.9	2650.1	1029.9	770.9	736.0	721.5	707.1	696.2	690.2	686.6
27.5°	6047.0	4829.1	2096.0	826.3	696.2	666.1	648.1	626.4	599.9	587.8	583.0
30°	5896.4	4550.9	1615.3	697.4	626.4	596.3	568.6	531.2	492.7	472.2	471.0
32.5°	5778.3	4277.4	1226.3	616.7	563.7	526.4	486.6	439.7	395.1	372.2	371.0
35°	5720.5	4036.5	937.2	557.7	508.3	461.4	412.0	360.2	316.8	295.1	292.7
37.5°	5759.1	3833.0	731.2	508.3	461.4	407.1	349.3	295.1	256.6	237.3	236.1
40°	5900.0	3702.9	593.9	466.2	421.6	355.3	292.7	242.1	209.6	193.9	192.7
42.5°	6200.0	3654.7	507.1	431.2	383.1	307.2	243.3	200.0	169.8	159.0	156.6
45°	6701.1	3725.8	448.1	397.5	343.3	261.4	201.2	163.8	137.3	128.9	127.7
47.5°	7368.4	3912.5	405.9	365.0	307.2	220.4	167.4	132.5	112.0	103.6	102.4
50°	8228.5	4208.8	371.0	332.5	273.4	186.7	138.5	104.8	86.7	80.7	80.7
52.5°	9164.4	4561.7	339.7	302.3	239.7	155.4	112.0	80.7	68.7	61.4	61.4
55°	9937.7	4870.1	306.0	279.5	198.8	128.9	85.5	61.4	50.6	47.0	47.0
57.5°	10709.9	5198.9	267.4	239.7	159.0	104.8	65.0	45.8	37.3	34.9	34.9
60°	11710.9	5601.3	230.1	195.1	125.3	79.5	48.2	32.5	27.7	26.5	26.5
62.5°	12811.9	5837.4	196.3	156.6	97.6	59.0	34.9	21.7	20.5	20.5	19.3
65°	13485.2	5503.7	165.0	125.3	75.9	44.6	22.9	15.7	18.1	16.9	14.5
67.5°	12626.4	4308.8	134.9	97.6	59.0	33.7	14.5	10.8	19.3	15.7	12.0
70°	10454.5	3016.3	104.8	68.7	47.0	28.9	9.6	7.2	20.5	15.7	9.6
72.5°	7823.7	2018.9	83.1	45.8	34.9	25.3	8.4	3.6	18.1	13.3	8.4
75°	4275.0	813.1	66.3	28.9	21.7	18.1	6.0	2.4	12.0	9.6	6.0
77.5°	1125.1	214.4	48.2	19.3	12.0	7.2	3.6	1.2	6.0	4.8	2.4
80°	286.7	83.1	31.3	13.3	8.4	3.6	0.0	0.0	1.2	0.0	0.0
82.5°	153.0	34.9	19.3	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	115.6	22.9	10.8	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.6	7.2	3.6	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)