

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: P323660

Luminaire Tested: **GLEON-SA6D-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323660  
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-SA6D-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA 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: 29145 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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: 24 FT

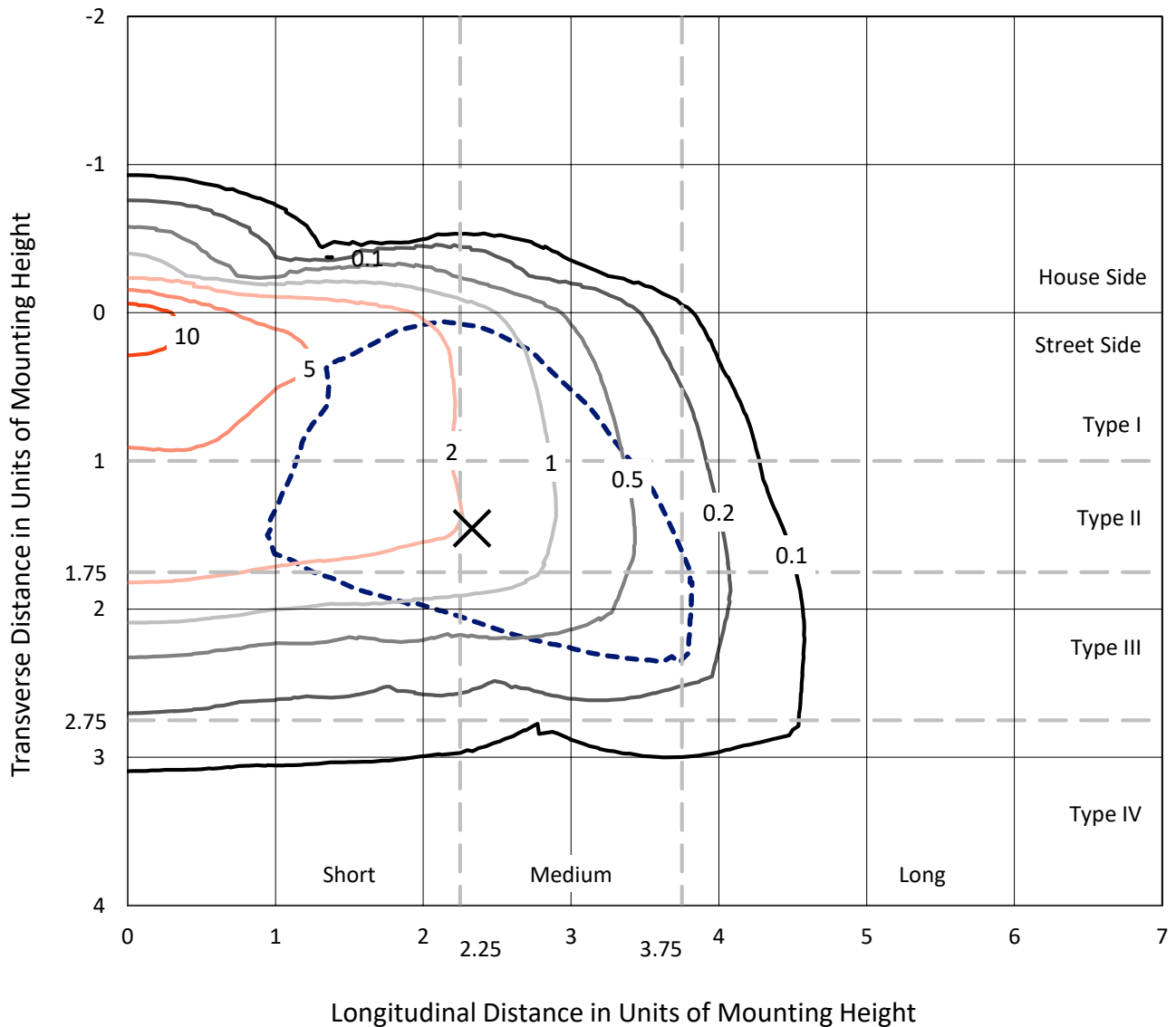




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### Iso-Footcandle Lines of Horizontal Illumination

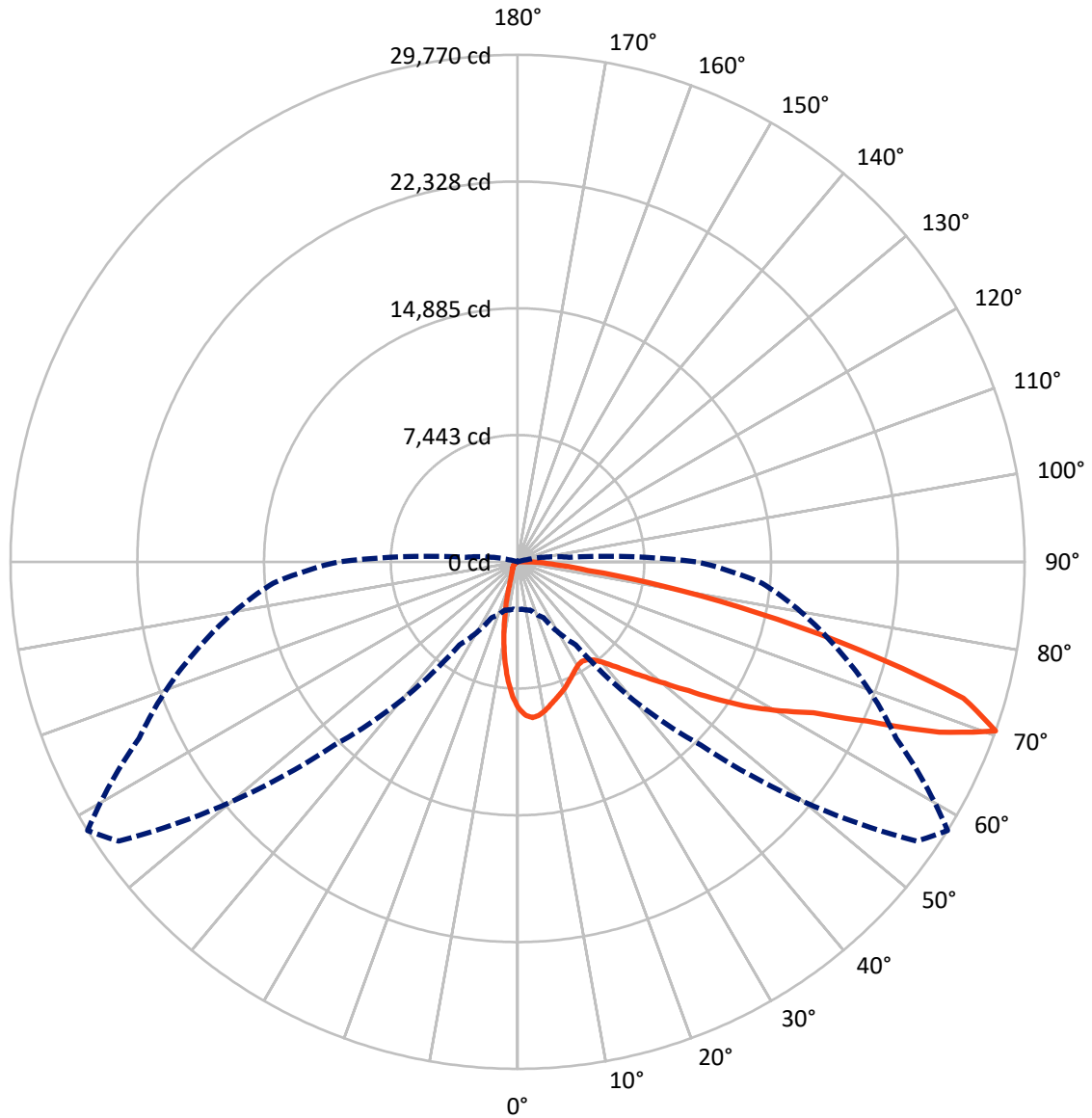
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	2494.2	0.0	2494.2
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	26650.8	0.0	26650.8
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	29145.0	0.0	29145.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	704.0	2.4
10°-20°	1477.6	5.1
20°-30°	1942.5	6.7
30°-40°	2572.6	8.8
40°-50°	3845.3	13.2
50°-60°	6160.0	21.1
60°-70°	7764.6	26.6
70°-80°	4188.2	14.4
80°-90°	490.2	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°	29145.0	100.0
0°-180°	29145.0	100.0

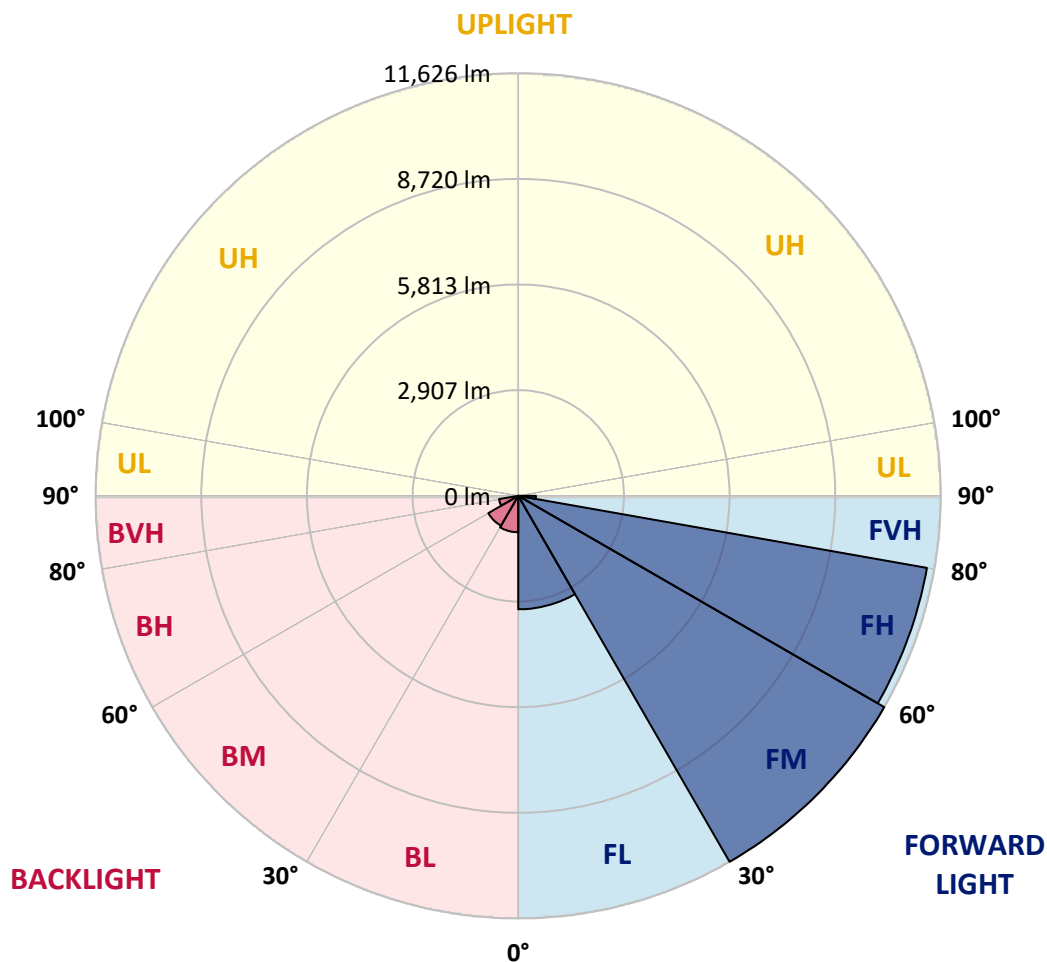


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3122.0	10.7			
FM (30°-60°)	11626.4	39.9			
FH (60°-80°)	11416.4	39.2			G4/12000
FVH (80°-90°)	486.0	1.7			G3/500
BL (0°-30°)	1002.1	3.4	B3/2500		
BM (30°-60°)	951.5	3.3	B1/1000		
BH (60°-80°)	536.4	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: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3
2.5°	9323.1	9300.1	9291.6	9277.0	9221.3	9166.8	9058.9	9028.6	8960.7	8799.6	8628.7
5°	9330.4	9329.2	9354.6	9348.6	9329.2	9303.7	9226.1	9186.2	9071.0	8840.8	8528.1
7.5°	8880.8	8903.8	8960.7	9006.8	9060.1	9129.2	9138.9	9100.1	9005.6	8757.1	8342.7
10°	8277.2	8313.6	8393.6	8484.5	8623.8	8762.0	8885.6	8880.8	8848.0	8603.2	8119.7
12.5°	7672.5	7714.9	7807.0	7941.5	8139.1	8364.5	8585.1	8615.4	8669.9	8465.1	7913.7
15°	7142.9	7179.3	7270.2	7435.0	7679.8	7982.7	8306.3	8362.1	8502.6	8357.2	7741.6
17.5°	6693.3	6716.3	6783.0	6966.0	7249.5	7616.8	8037.3	8146.4	8356.0	8272.4	7592.5
20°	6379.4	6383.0	6426.7	6555.1	6838.7	7249.5	7758.5	7914.9	8200.9	8199.7	7438.6
22.5°	6224.3	6212.2	6220.7	6294.6	6503.0	6899.3	7479.8	7665.2	8061.5	8137.9	7282.3
25°	6195.2	6185.5	6161.3	6171.0	6297.0	6592.7	7198.7	7413.2	7939.1	8100.3	7146.5
27.5°	6286.1	6295.8	6254.6	6211.0	6220.7	6394.0	6949.0	7197.4	7839.7	8100.3	7050.8
30°	6469.1	6473.9	6443.6	6386.7	6310.3	6338.2	6775.7	7024.1	7790.1	8156.0	6990.2
32.5°	6671.5	6698.1	6694.5	6648.5	6539.4	6426.7	6734.5	6961.1	7786.4	8279.7	6984.1
35°	6922.3	6952.6	7003.5	6993.8	6879.9	6694.5	6875.1	7053.2	7857.9	8483.3	7049.6
37.5°	7189.0	7235.0	7344.1	7396.2	7322.3	7112.6	7190.2	7317.4	8049.4	8812.9	7215.6
40°	7447.1	7499.2	7698.0	7902.8	7847.0	7631.3	7667.7	7769.5	8389.9	9286.7	7530.7
42.5°	7700.4	7777.9	8070.0	8406.9	8473.6	8301.5	8320.9	8402.1	8895.3	9938.7	8045.8
45°	8003.3	8090.6	8523.3	8938.9	9117.1	9041.9	9124.4	9177.7	9555.8	10800.4	8740.2
47.5°	8448.1	8548.7	9079.5	9553.4	9866.0	9914.5	10080.5	10115.7	10390.8	11803.8	9645.5
50°	9315.8	9343.7	9823.6	10253.8	10704.7	10995.5	11184.6	11211.2	11401.5	12900.6	10776.2
52.5°	10407.7	10425.9	10697.4	10985.8	11498.5	12092.3	12534.6	12572.2	12612.2	13969.5	11892.3
55°	11492.4	11490.0	11669.3	11839.0	12425.5	13288.4	14248.2	14271.3	13984.0	14983.9	12745.5
57.5°	12169.8	12235.3	12508.0	12726.1	13545.3	14651.8	15983.7	16068.5	15425.0	15735.2	13589.0
60°	11954.1	11985.6	12590.4	13397.5	14940.2	16589.6	17739.7	17761.5	16508.4	16485.4	14655.4
62.5°	10184.8	10201.7	11151.8	12815.8	15646.8	19103.1	19858.1	19503.0	17754.2	17526.4	15931.6
65°	6980.5	7090.8	7884.6	9941.2	14348.8	20679.8	23137.5	22549.7	19653.3	19026.7	17085.3
67.5°	4110.7	4087.7	4480.4	5995.2	10538.6	19632.7	27285.8	26701.7	22243.1	20031.4	16747.2
70°	2808.0	2792.2	2942.5	3629.6	5949.2	15229.9	28591.0	29770.2	24529.9	19355.2	14413.1
72.5°	2004.5	2013.0	2234.7	2820.1	3735.1	8873.5	24586.9	27377.9	23813.7	16873.2	10955.5
75°	1361.0	1384.0	1701.5	2313.5	3274.5	4514.3	17447.6	20811.9	19391.5	12263.2	6297.0
77.5°	732.0	757.4	1131.9	1863.9	2960.7	3136.4	11223.4	14323.4	12180.7	5512.9	1825.1
80°	305.4	319.9	529.6	1354.9	2558.3	2754.6	6603.6	8685.6	5190.5	1087.1	407.2
82.5°	132.1	139.4	220.6	808.3	1912.4	2325.6	3496.3	4178.6	1573.0	238.7	204.8
85°	25.4	26.7	90.9	427.8	1220.4	1312.5	2266.2	2221.4	706.5	103.0	149.1
87.5°	0.0	0.0	21.8	134.5	358.7	715.0	1382.8	1365.8	240.0	49.7	55.7
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°	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3	8609.3
2.5°	8541.4	8457.8	8282.1	8065.2	7899.1	7716.1	7570.7	7386.5	7306.5	7310.1	7266.5
5°	8349.9	8177.9	7788.8	7298.0	6919.9	6529.7	6194.0	5859.5	5662.0	5597.7	5537.1
7.5°	8076.1	7803.4	7182.9	6426.7	5786.8	5161.5	4617.3	4138.6	3835.6	3687.8	3633.3
10°	7767.0	7384.1	6486.1	5489.9	4576.1	3730.2	3024.9	2411.7	2166.9	2000.8	1958.4
12.5°	7495.6	6976.9	5805.0	4528.8	3444.2	2423.8	1751.2	1369.4	1203.4	1138.0	1127.1
15°	7239.9	6596.3	5149.3	3658.7	2385.0	1491.8	1113.7	984.1	945.3	934.4	934.4
17.5°	6998.7	6234.0	4508.2	2801.9	1577.9	1045.9	922.3	893.2	881.0	879.8	881.0
20°	6746.6	5871.6	3878.1	2052.9	1101.6	885.9	852.0	836.2	832.6	832.6	832.6
22.5°	6505.4	5509.3	3264.8	1466.4	883.5	808.3	791.4	780.5	776.8	775.6	773.2
25°	6274.0	5165.1	2666.2	1036.2	775.6	740.5	725.9	711.4	700.5	694.4	690.8
27.5°	6083.7	4858.5	2108.7	831.4	700.5	670.2	652.0	630.2	603.5	591.4	586.6
30°	5932.2	4578.5	1625.1	701.7	630.2	599.9	572.0	534.4	495.7	475.1	473.9
32.5°	5813.5	4303.4	1233.7	620.5	567.2	529.6	489.6	442.3	397.5	374.5	373.3
35°	5755.3	4061.1	942.9	561.1	511.4	464.2	414.5	362.4	318.7	296.9	294.5
37.5°	5794.1	3856.2	735.6	511.4	464.2	409.6	351.4	296.9	258.1	238.7	237.5
40°	5935.9	3725.4	597.5	469.0	424.2	357.5	294.5	243.6	210.9	195.1	193.9
42.5°	6237.6	3676.9	510.2	433.9	385.4	309.0	244.8	201.2	170.9	160.0	157.5
45°	6741.8	3748.4	450.8	399.9	345.4	263.0	202.4	164.8	138.2	129.7	128.5
47.5°	7413.2	3936.2	408.4	367.2	309.0	221.8	168.5	133.3	112.7	104.2	103.0
50°	8278.4	4234.4	373.3	334.5	275.1	187.8	139.4	105.4	87.3	81.2	81.2
52.5°	9220.1	4589.4	341.8	304.2	241.2	156.3	112.7	81.2	69.1	61.8	61.8
55°	9998.1	4899.7	307.8	281.2	200.0	129.7	86.0	61.8	50.9	47.3	47.3
57.5°	10774.9	5230.5	269.0	241.2	160.0	105.4	65.4	46.1	37.6	35.1	35.1
60°	11782.0	5635.3	231.5	196.3	126.0	80.0	48.5	32.7	27.9	26.7	26.7
62.5°	12889.7	5872.8	197.5	157.5	98.2	59.4	35.1	21.8	20.6	20.6	19.4
65°	13567.2	5537.1	166.0	126.0	76.3	44.8	23.0	15.8	18.2	17.0	14.5
67.5°	12703.1	4334.9	135.7	98.2	59.4	33.9	14.5	10.9	19.4	15.8	12.1
70°	10518.0	3034.6	105.4	69.1	47.3	29.1	9.7	7.3	20.6	15.8	9.7
72.5°	7871.3	2031.1	83.6	46.1	35.1	25.4	8.5	3.6	18.2	13.3	8.5
75°	4301.0	818.0	66.7	29.1	21.8	18.2	6.1	2.4	12.1	9.7	6.1
77.5°	1131.9	215.7	48.5	19.4	12.1	7.3	3.6	1.2	6.1	4.8	2.4
80°	288.4	83.6	31.5	13.3	8.5	3.6	0.0	0.0	1.2	0.0	0.0
82.5°	153.9	35.1	19.4	9.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	116.3	23.0	10.9	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.8	7.3	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)