

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: P458226

Luminaire Tested: **GALN-SA9C-827-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA 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: 38387 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

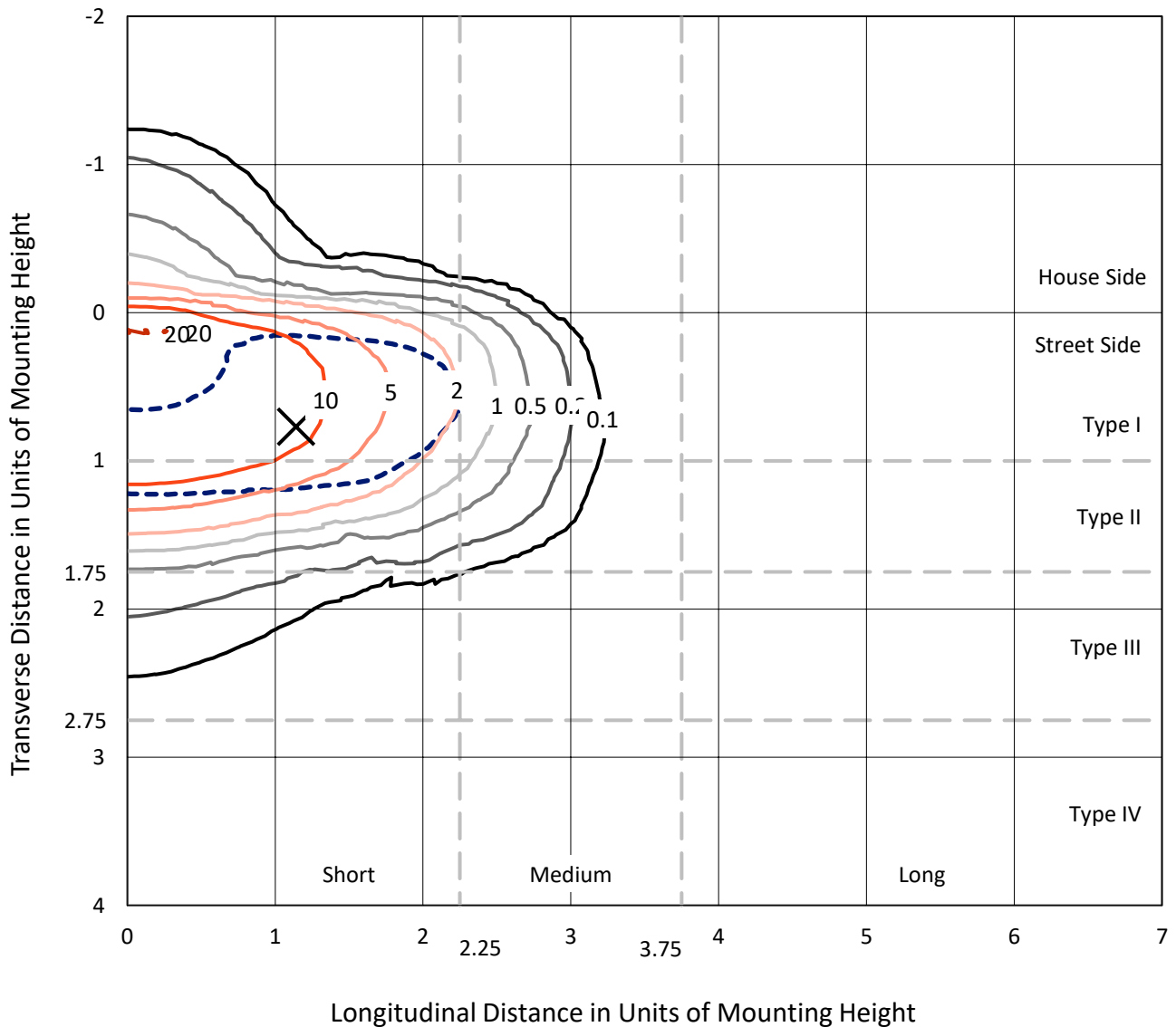




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### Iso-Footcandle Lines of Horizontal Illumination

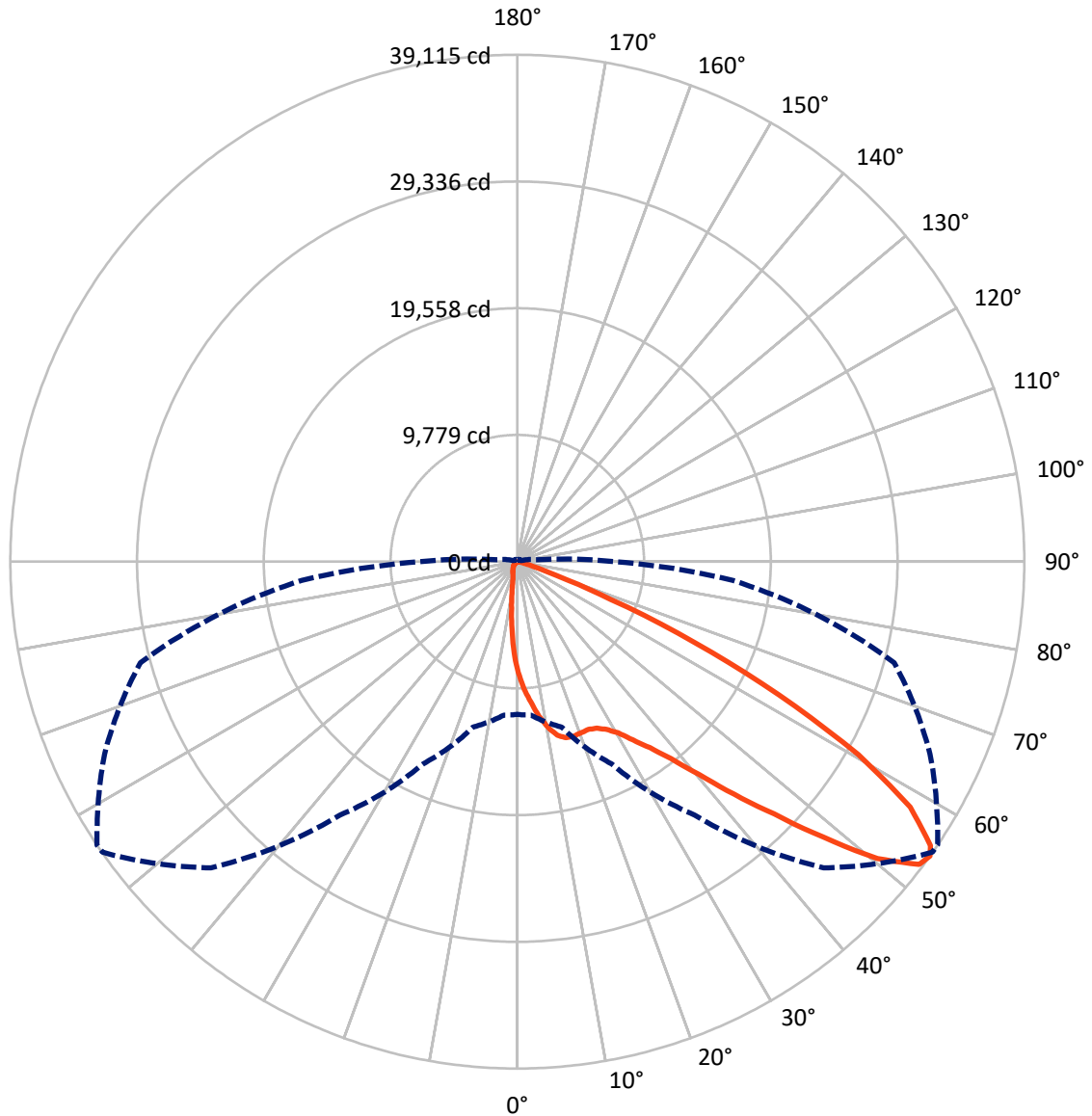
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1815.2	0.0	1815.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	36571.8	0.0	36571.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	38387.0	0.0	38387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.6	2.0
10°-20°	2037.3	5.3
20°-30°	3528.4	9.2
30°-40°	6090.6	15.9
40°-50°	10366.5	27.0
50°-60°	10258.9	26.7
60°-70°	4682.4	12.2
70°-80°	601.3	1.6
80°-90°	67.8	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°	38387.0	100.0
0°-180°	38387.0	100.0

**Coefficient of Utilization**



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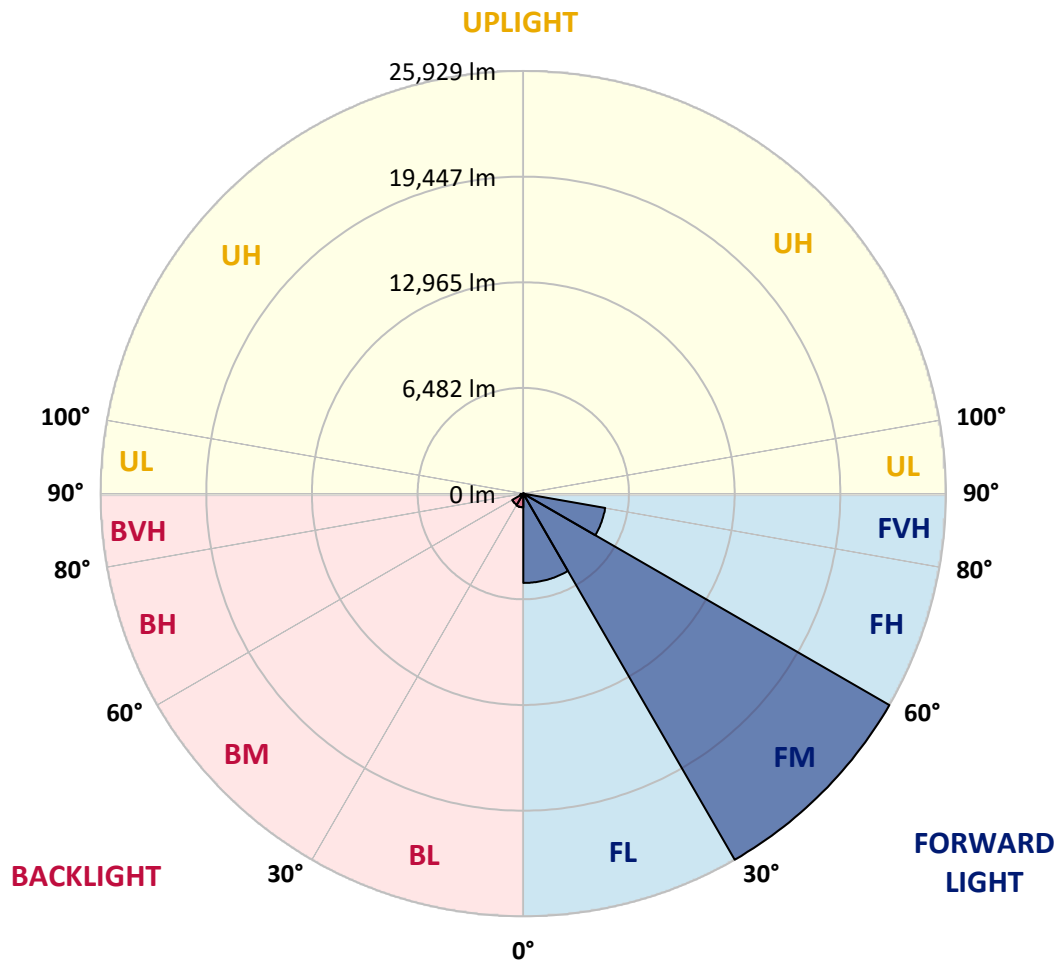
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5479.9	14.3			
FM (30°-60°)	25929.4	67.5			
FH (60°-80°)	5102.0	13.3			G3/7500
FVH (80°-90°)	60.5	0.2			G1/100
BL (0°-30°)	839.5	2.2	B2/1000		
BM (30°-60°)	786.7	2.0	B1/1000		
BH (60°-80°)	181.8	0.5	B1/500		G1/500
BVH (80°-90°)	7.3	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5
2.5°	10838.7	10763.6	10660.0	10579.7	10390.6	10118.7	9831.2	9831.2	9554.1	9168.2	8774.5
5°	12501.4	12452.2	12351.2	12144.0	11931.6	11550.9	10973.3	10872.3	10377.7	9678.4	8942.9
7.5°	13177.3	13200.6	13205.8	13151.4	13050.4	12674.9	12102.5	12032.6	11242.7	10305.1	9163.0
10°	12529.9	12643.8	12755.2	12980.5	13299.1	13389.7	13066.0	12993.4	12216.5	10939.7	9401.3
12.5°	11566.4	11628.6	11690.7	12045.6	12685.3	13418.2	13757.5	13754.9	13097.0	11571.6	9704.3
15°	11118.4	11172.8	11177.9	11335.9	11890.2	12957.2	14052.7	14091.6	13956.9	12351.2	10030.6
17.5°	11211.6	11255.6	11219.4	11258.2	11548.3	12449.6	14019.0	14148.5	14653.6	13099.6	10325.9
20°	11820.2	11905.7	11765.8	11657.1	11745.1	12314.9	13905.1	14086.4	15145.6	13830.0	10595.2
22.5°	12913.2	12959.8	12783.7	12485.8	12330.4	12597.2	13874.0	14052.7	15565.2	14428.2	10750.6
25°	14127.8	14112.3	13918.0	13583.9	13257.6	13167.0	14078.6	14239.2	15912.2	14966.9	10797.2
27.5°	15342.5	15389.1	15062.8	14648.4	14257.3	14021.6	14537.0	14656.2	16303.3	15580.7	10854.2
30°	16754.0	16678.9	16357.7	15883.8	15435.7	15106.8	15275.1	15308.8	16842.0	16394.0	11004.4
32.5°	18590.2	18383.0	18023.0	17194.2	16873.1	16316.3	16357.7	16399.1	17497.3	17199.4	11185.7
35°	21081.7	21071.3	20366.8	19250.6	18468.5	17777.0	17595.7	17629.3	18489.2	18395.9	11587.1
37.5°	24080.7	24122.2	23319.3	22195.3	20755.3	19657.2	19284.3	19289.5	19996.5	20048.3	12198.4
40°	26523.0	26631.8	26152.6	25393.8	23972.0	22254.9	21628.1	21571.1	22115.0	22050.3	13071.1
42.5°	27574.5	27675.5	27854.2	28118.4	27336.2	25919.6	24440.7	24518.4	24684.2	24231.0	14050.1
45°	27059.1	27219.7	27921.5	29553.2	30288.7	29812.2	28048.4	27776.5	27074.6	26600.7	15034.3
47.5°	24912.1	25303.2	26476.4	29193.2	31767.5	33378.4	32119.7	31759.7	29467.7	28330.7	15661.0
50°	21382.1	21405.4	23039.6	26512.6	31000.9	35629.0	36276.5	36007.2	31697.6	29301.9	15977.0
52.5°	15500.5	16010.7	17507.6	21529.7	27680.7	35287.2	38926.0	38814.6	33997.4	29799.2	16432.8
54°	11784.0	11882.4	13213.6	17204.6	23865.8	33409.5	39089.1	39115.0	35139.5	30099.6	16702.2
55°	9660.3	9424.6	10823.1	14656.2	21262.9	31749.4	38555.6	38679.9	35652.3	30255.0	16901.6
57.5°	4578.9	4581.5	5651.1	7730.8	13317.2	24653.1	35294.9	35735.2	35709.3	30521.8	17515.4
60°	2317.9	2333.5	2569.2	3568.9	6578.3	16388.8	29182.8	30231.7	32961.5	30560.6	17717.4
62.5°	1621.3	1603.1	1564.3	1717.1	2768.6	8329.1	21726.5	22638.2	28004.4	29081.8	17075.1
65°	1388.2	1349.3	1240.6	1217.2	1398.5	3317.6	13532.1	15018.7	21382.1	25181.4	15246.6
67.5°	1186.2	1170.6	1072.2	1012.6	989.3	1445.2	6982.3	7764.5	14614.7	18100.7	11548.3
70°	1007.5	999.7	940.1	865.0	800.3	865.0	2589.9	3208.9	8145.2	9745.7	5449.1
72.5°	818.4	826.2	836.5	740.7	673.4	613.8	1105.9	1287.2	3408.3	3483.4	1906.2
75°	717.4	709.6	709.6	644.9	562.0	455.8	608.6	655.2	1043.7	968.6	442.9
77.5°	505.0	486.9	569.8	530.9	468.8	323.7	347.0	367.8	432.5	370.4	207.2
80°	349.6	349.6	365.2	476.5	422.2	235.7	212.4	227.9	256.4	220.1	119.1
82.5°	196.8	202.0	238.3	253.8	246.0	158.0	139.9	142.4	170.9	150.2	75.1
85°	23.3	38.8	137.3	134.7	101.0	69.9	77.7	80.3	106.2	93.2	44.0
87.5°	2.6	5.2	28.5	36.3	25.9	28.5	28.5	28.5	36.3	41.4	31.1
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°	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5	8528.5
2.5°	8562.2	8365.3	7896.6	7352.7	7005.6	6441.0	5964.5	5620.0	5534.6	5368.8	5418.0
5°	8551.8	8142.6	7186.9	6176.9	5099.5	4296.6	3698.4	3227.0	3019.8	2882.5	2786.7
7.5°	8557.0	7917.3	6384.1	4775.7	3488.6	2701.2	2147.0	1859.5	1667.9	1587.6	1598.0
10°	8572.5	7663.5	5451.7	3537.8	2354.2	1745.6	1406.3	1269.0	1204.3	1193.9	1191.3
12.5°	8608.8	7386.3	4560.8	2626.1	1647.2	1269.0	1139.5	1092.9	1072.2	1072.2	1064.4
15°	8647.6	7080.7	3820.1	1952.8	1269.0	1090.3	1030.8	1007.5	994.5	994.5	991.9
17.5°	8647.6	6728.5	3128.6	1515.1	1092.9	1002.3	955.7	924.6	914.2	914.2	911.6
20°	8593.2	6319.3	2514.8	1219.8	991.9	919.4	872.8	839.1	826.2	821.0	818.4
22.5°	8404.2	5772.9	2002.0	1048.9	909.0	846.9	787.3	748.5	738.1	732.9	735.5
25°	8067.5	5156.5	1585.0	922.0	833.9	758.8	707.0	678.5	668.2	668.2	670.8
27.5°	7720.4	4511.6	1256.1	826.2	743.3	676.0	634.5	616.4	613.8	621.6	624.2
30°	7399.3	3864.1	1017.8	748.5	663.0	606.0	577.5	572.4	572.4	575.0	577.5
32.5°	7041.9	3296.9	852.1	681.1	598.3	549.1	533.5	533.5	538.7	538.7	543.9
35°	6816.6	2810.0	748.5	616.4	549.1	507.6	497.3	499.8	507.6	518.0	523.2
37.5°	6694.9	2421.5	681.1	564.6	502.4	473.9	463.6	468.8	486.9	505.0	507.6
40°	6705.2	2128.9	626.8	520.6	466.2	435.1	427.3	442.9	461.0	479.1	481.7
42.5°	6819.2	1911.3	575.0	468.8	435.1	391.1	388.5	404.0	411.8	429.9	432.5
45°	6953.8	1753.4	520.6	414.4	378.1	339.3	341.9	354.8	365.2	393.7	398.8
47.5°	6995.3	1644.6	458.4	352.2	310.8	297.8	300.4	308.2	328.9	354.8	357.4
50°	7041.9	1577.2	398.8	297.8	264.2	261.6	264.2	269.3	282.3	292.7	290.1
52.5°	7241.3	1574.6	349.6	259.0	225.3	230.5	233.1	230.5	220.1	204.6	199.4
54°	7427.8	1582.4	326.3	240.9	207.2	215.0	212.4	199.4	173.5	158.0	150.2
55°	7578.0	1590.2	313.4	227.9	196.8	199.4	202.0	176.1	142.4	126.9	121.7
57.5°	7873.2	1572.1	282.3	199.4	173.5	163.2	160.6	116.5	77.7	67.3	62.2
60°	7725.6	1419.3	256.4	170.9	147.6	132.1	108.8	64.7	38.8	28.5	28.5
62.5°	7145.5	1204.3	227.9	139.9	121.7	101.0	57.0	36.3	18.1	10.4	7.8
65°	6391.8	1012.6	204.6	111.4	95.8	64.7	31.1	23.3	7.8	0.0	0.0
67.5°	4752.4	751.1	173.5	88.1	72.5	41.4	20.7	12.9	2.6	0.0	0.0
70°	2201.4	458.4	147.6	67.3	51.8	31.1	15.5	7.8	0.0	0.0	0.0
72.5°	631.9	287.5	121.7	49.2	36.3	25.9	12.9	5.2	2.6	0.0	0.0
75°	220.1	230.5	90.6	36.3	28.5	18.1	10.4	5.2	2.6	0.0	0.0
77.5°	132.1	186.5	57.0	31.1	23.3	15.5	10.4	5.2	2.6	2.6	0.0
80°	75.1	124.3	36.3	25.9	20.7	12.9	7.8	5.2	2.6	2.6	0.0
82.5°	41.4	59.6	28.5	23.3	18.1	12.9	7.8	5.2	2.6	2.6	2.6
85°	33.7	31.1	23.3	20.7	15.5	10.4	7.8	2.6	0.0	0.0	0.0
87.5°	25.9	20.7	20.7	20.7	15.5	10.4	7.8	2.6	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)