

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: P456370

Luminaire Tested: **GALN-SA7C-827-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456370  
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-SA7C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 29493 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

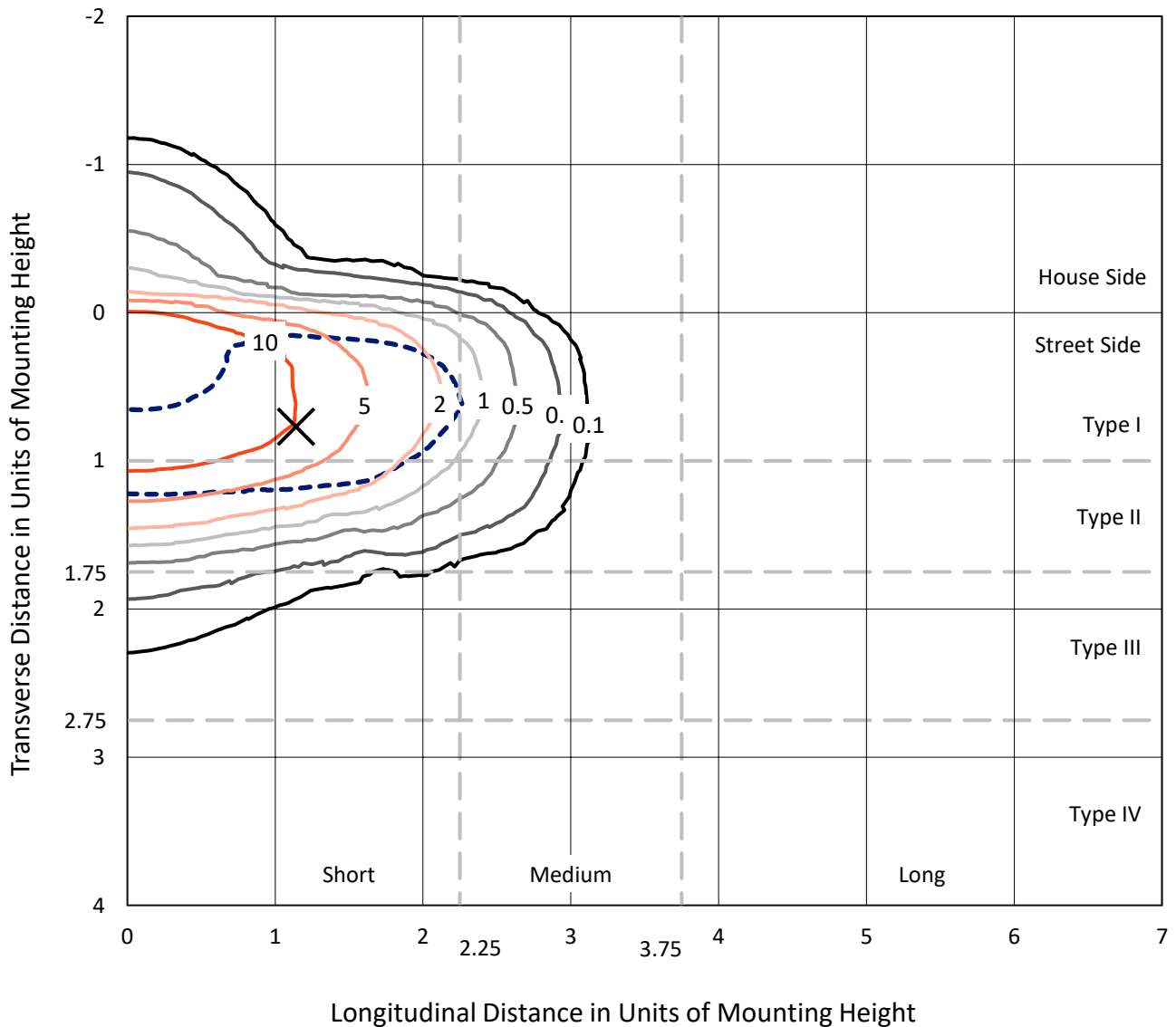
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

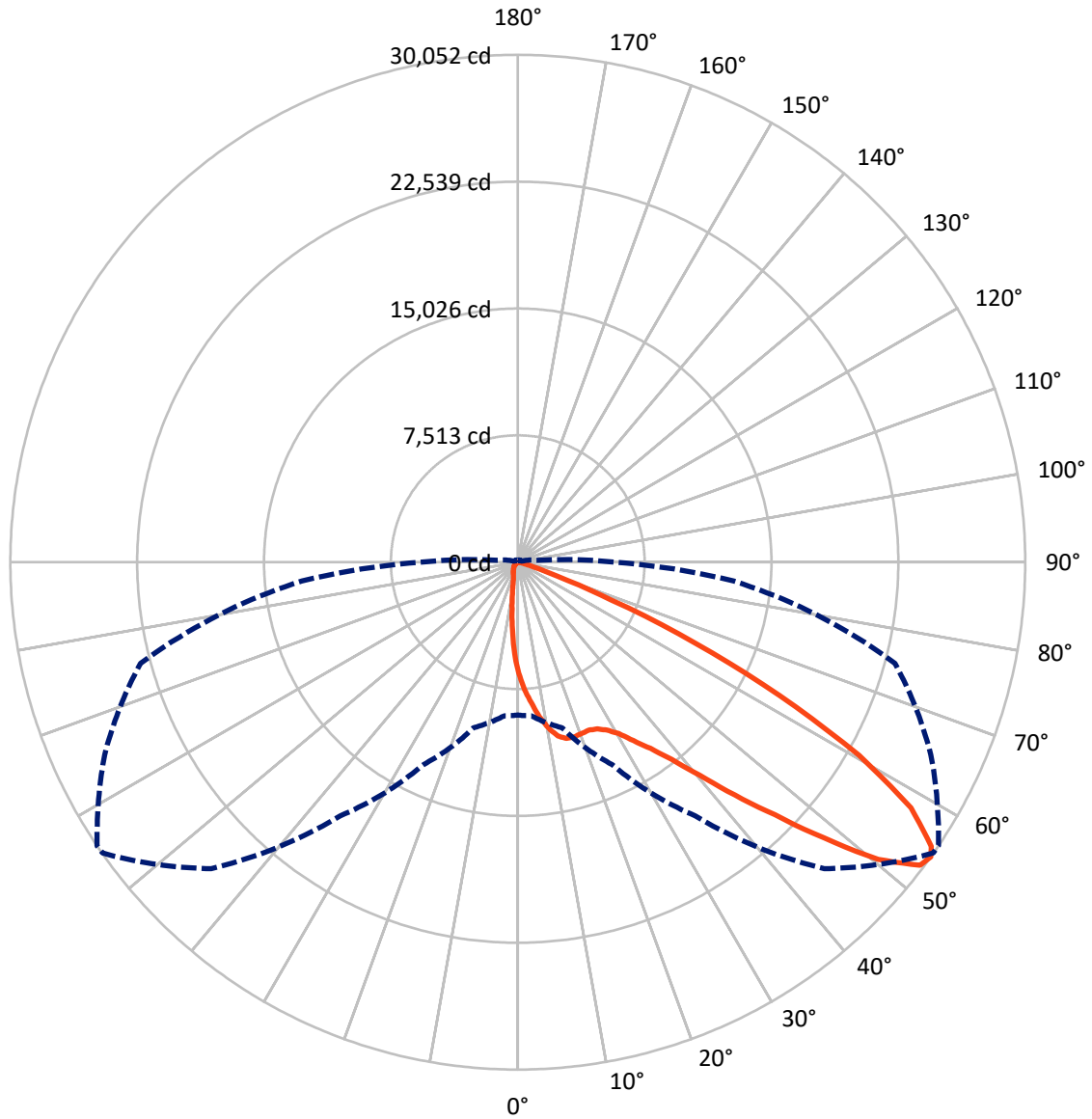
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	1394.7	0.0	1394.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	28098.3	0.0	28098.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	29493.0	0.0	29493.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.0	2.0
10°-20°	1565.3	5.3
20°-30°	2710.9	9.2
30°-40°	4679.5	15.9
40°-50°	7964.7	27.0
50°-60°	7882.0	26.7
60°-70°	3597.5	12.2
70°-80°	462.0	1.6
80°-90°	52.1	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°	29493.0	100.0
0°-180°	29493.0	100.0

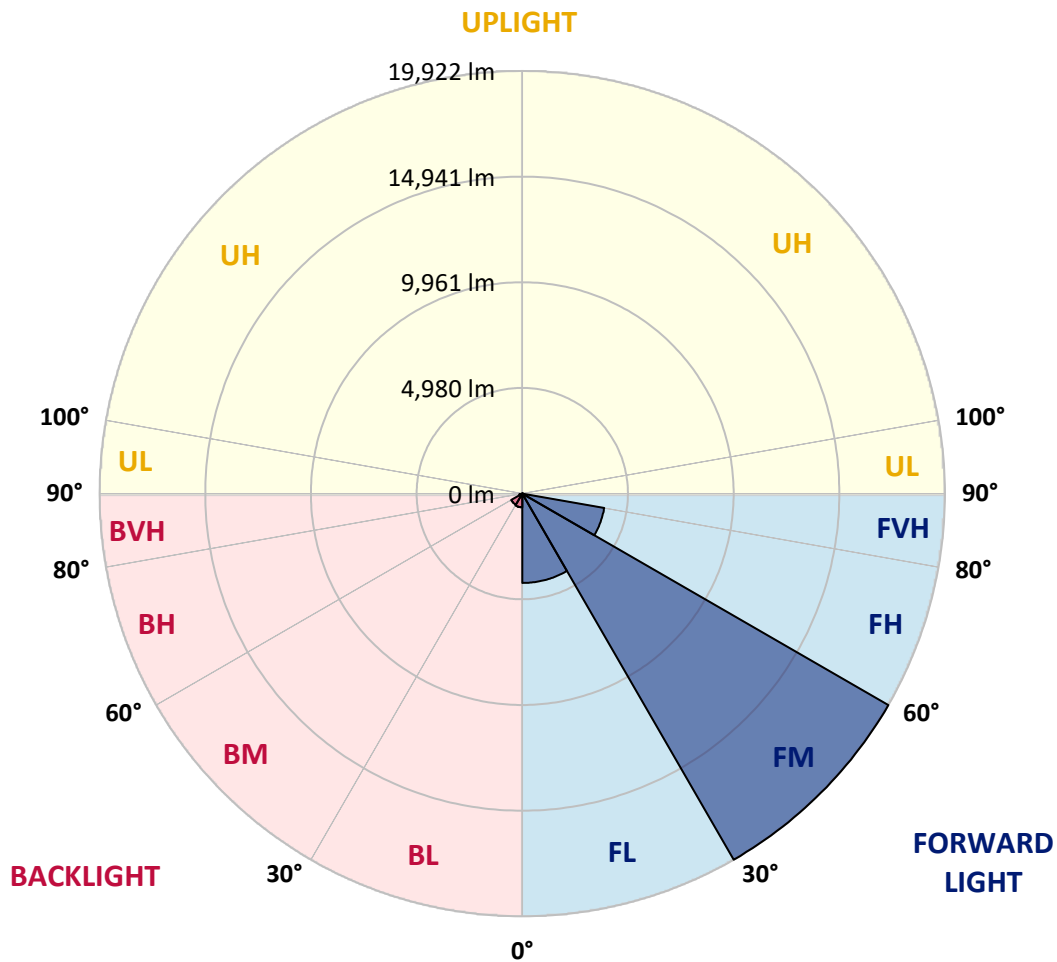


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4210.2	14.3			
FM	(30°-60°)	19921.8	67.5			
FH	(60°-80°)	3919.9	13.3			G2/5000
FVH	(80°-90°)	46.5	0.2			G1/100
BL	(0°-30°)	645.0	2.2	B2/1000		
BM	(30°-60°)	604.4	2.0	B1/1000		
BH	(60°-80°)	139.7	0.5	B1/500		G1/500
BVH	(80°-90°)	5.6	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°	56°	65°	75°	85°
0°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	8327.4	8269.7	8190.1	8128.4	7983.2	7774.2	7553.4	7553.4	7340.5	7044.0	6741.5
5°	9604.9	9567.1	9489.5	9330.3	9167.1	8874.6	8430.9	8353.3	7973.2	7436.0	6870.9
7.5°	10124.2	10142.1	10146.1	10104.3	10026.7	9738.2	9298.5	9244.7	8637.8	7917.5	7040.0
10°	9626.8	9714.3	9799.9	9973.0	10217.8	10287.4	10038.7	9983.0	9386.0	8405.0	7223.1
12.5°	8886.6	8934.3	8982.1	9254.7	9746.2	10309.3	10570.0	10568.0	10062.5	8890.5	7455.9
15°	8542.3	8584.1	8588.1	8709.5	9135.3	9955.1	10796.8	10826.6	10723.2	9489.5	7706.6
17.5°	8614.0	8647.8	8619.9	8649.8	8872.6	9565.1	10770.9	10870.4	11258.4	10064.5	7933.4
20°	9081.6	9147.2	9039.8	8956.2	9023.9	9461.6	10683.4	10822.7	11636.5	10625.7	8140.4
22.5°	9921.3	9957.1	9821.8	9593.0	9473.6	9678.5	10659.5	10796.8	11958.9	11085.3	8259.8
25°	10854.5	10842.6	10693.3	10436.6	10185.9	10116.3	10816.7	10940.1	12225.5	11499.2	8295.6
27.5°	11787.7	11823.5	11572.8	11254.5	10954.0	10772.9	11168.9	11260.4	12526.0	11970.8	8339.4
30°	12872.2	12814.5	12567.7	12203.6	11859.4	11606.7	11736.0	11761.9	12939.8	12595.6	8454.8
32.5°	14283.0	14123.8	13847.2	13210.5	12963.7	12535.9	12567.7	12599.6	13443.3	13214.4	8594.1
35°	16197.2	16189.2	15648.0	14790.4	14189.4	13658.2	13518.9	13544.7	14205.4	14133.7	8902.5
37.5°	18501.4	18533.2	17916.4	17052.8	15946.5	15102.8	14816.2	14820.2	15363.4	15403.2	9372.1
40°	20377.8	20461.4	20093.3	19510.2	18417.8	17098.6	16617.0	16573.3	16991.1	16941.4	10042.7
42.5°	21185.7	21263.3	21400.6	21603.5	21002.6	19914.2	18778.0	18837.7	18965.0	18616.8	10794.8
45°	20789.7	20913.1	21452.3	22705.9	23271.0	22904.9	21549.8	21340.9	20801.6	20437.5	11550.9
47.5°	19140.1	19440.6	20342.0	22429.3	24407.2	25644.9	24677.8	24401.2	22640.2	21766.7	12032.5
50°	16428.0	16445.9	17701.5	20369.8	23818.2	27374.0	27871.5	27664.5	24353.5	22512.9	12275.2
52.5°	11909.1	12301.1	13451.2	16541.4	21267.3	27111.4	29907.1	29821.5	26120.4	22894.9	12625.4
54°	9053.7	9129.3	10152.1	13218.4	18336.2	25668.8	30032.4	30052.3	26998.0	23125.8	12832.4
55°	7422.1	7241.0	8315.5	11260.4	16336.5	24393.3	29622.5	29718.1	27391.9	23245.1	12985.6
57.5°	3518.0	3520.0	4341.8	5939.6	10231.7	18941.2	27117.3	27455.6	27435.7	23450.1	13457.2
60°	1780.9	1792.8	1973.9	2742.0	5054.2	12591.6	22421.4	23227.2	25324.5	23479.9	13612.4
62.5°	1245.6	1231.7	1201.9	1319.3	2127.1	6399.3	16692.6	17393.1	21516.0	22343.8	13118.9
65°	1066.5	1036.7	953.1	935.2	1074.5	2549.0	10396.8	11539.0	16428.0	19347.1	11714.1
67.5°	911.3	899.4	823.8	778.0	760.1	1110.3	5364.6	5965.5	11228.6	13906.9	8872.6
70°	774.0	768.1	722.3	664.6	614.9	664.6	1989.8	2465.4	6258.0	7487.7	4186.6
72.5°	628.8	634.8	642.7	569.1	517.4	471.6	849.7	988.9	2618.6	2676.3	1464.5
75°	551.2	545.2	545.2	495.5	431.8	350.2	467.6	503.4	801.9	744.2	340.3
77.5°	388.0	374.1	437.8	407.9	360.2	248.7	266.6	282.6	332.3	284.5	159.2
80°	268.6	268.6	280.6	366.1	324.3	181.1	163.2	175.1	197.0	169.1	91.5
82.5°	151.2	155.2	183.1	195.0	189.0	121.4	107.5	109.4	131.3	115.4	57.7
85°	17.9	29.8	105.5	103.5	77.6	53.7	59.7	61.7	81.6	71.6	33.8
87.5°	2.0	4.0	21.9	27.9	19.9	21.9	21.9	21.9	27.9	31.8	23.9
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°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	6578.4	6427.1	6067.0	5649.1	5382.5	4948.7	4582.6	4317.9	4252.3	4124.9	4162.7
5°	6570.4	6256.0	5521.8	4745.7	3918.0	3301.1	2841.5	2479.3	2320.1	2214.7	2141.1
7.5°	6574.4	6082.9	4904.9	3669.2	2680.3	2075.4	1649.6	1428.7	1281.4	1219.8	1227.7
10°	6586.3	5887.9	4188.6	2718.1	1808.8	1341.1	1080.5	975.0	925.3	917.3	915.3
12.5°	6614.2	5675.0	3504.1	2017.7	1265.5	975.0	875.5	839.7	823.8	823.8	817.8
15°	6644.0	5440.2	2935.0	1500.3	975.0	837.7	792.0	774.0	764.1	764.1	762.1
17.5°	6644.0	5169.6	2403.7	1164.0	839.7	770.1	734.2	710.4	702.4	702.4	700.4
20°	6602.2	4855.2	1932.1	937.2	762.1	706.4	670.6	644.7	634.8	630.8	628.8
22.5°	6457.0	4435.3	1538.1	805.9	698.4	650.7	604.9	575.1	567.1	563.1	565.1
25°	6198.3	3961.7	1217.8	708.4	640.7	583.0	543.2	521.3	513.4	513.4	515.4
27.5°	5931.7	3466.3	965.1	634.8	571.1	519.3	487.5	473.6	471.6	477.6	479.5
30°	5684.9	2968.8	782.0	575.1	509.4	465.6	443.7	439.8	439.8	441.7	443.7
32.5°	5410.3	2533.0	654.7	523.3	459.6	421.8	409.9	409.9	413.9	413.9	417.9
35°	5237.2	2159.0	575.1	473.6	421.8	390.0	382.0	384.0	390.0	398.0	401.9
37.5°	5143.7	1860.5	523.3	433.8	386.0	364.1	356.2	360.2	374.1	388.0	390.0
40°	5151.7	1635.6	481.5	400.0	358.2	334.3	328.3	340.3	354.2	368.1	370.1
42.5°	5239.2	1468.5	441.7	360.2	334.3	300.5	298.5	310.4	316.4	330.3	332.3
45°	5342.7	1347.1	400.0	318.4	290.5	260.7	262.7	272.6	280.6	302.5	306.4
47.5°	5374.5	1263.5	352.2	270.6	238.8	228.8	230.8	236.8	252.7	272.6	274.6
50°	5410.3	1211.8	306.4	228.8	203.0	201.0	203.0	206.9	216.9	224.9	222.9
52.5°	5563.6	1209.8	268.6	199.0	173.1	177.1	179.1	177.1	169.1	157.2	153.2
54°	5706.8	1215.8	250.7	185.1	159.2	165.2	163.2	153.2	133.3	121.4	115.4
55°	5822.2	1221.8	240.8	175.1	151.2	153.2	155.2	135.3	109.4	97.5	93.5
57.5°	6049.1	1207.8	216.9	153.2	133.3	125.4	123.4	89.5	59.7	51.7	47.8
60°	5935.7	1090.4	197.0	131.3	113.4	101.5	83.6	49.7	29.8	21.9	21.9
62.5°	5489.9	925.3	175.1	107.5	93.5	77.6	43.8	27.9	13.9	8.0	6.0
65°	4910.9	778.0	157.2	85.6	73.6	49.7	23.9	17.9	6.0	0.0	0.0
67.5°	3651.3	577.0	133.3	67.7	55.7	31.8	15.9	9.9	2.0	0.0	0.0
70°	1691.4	352.2	113.4	51.7	39.8	23.9	11.9	6.0	0.0	0.0	0.0
72.5°	485.5	220.9	93.5	37.8	27.9	19.9	9.9	4.0	2.0	0.0	0.0
75°	169.1	177.1	69.6	27.9	21.9	13.9	8.0	4.0	2.0	0.0	0.0
77.5°	101.5	143.3	43.8	23.9	17.9	11.9	8.0	4.0	2.0	2.0	0.0
80°	57.7	95.5	27.9	19.9	15.9	9.9	6.0	4.0	2.0	2.0	0.0
82.5°	31.8	45.8	21.9	17.9	13.9	9.9	6.0	4.0	2.0	2.0	2.0
85°	25.9	23.9	17.9	15.9	11.9	8.0	6.0	2.0	0.0	0.0	0.0
87.5°	19.9	15.9	15.9	15.9	11.9	8.0	6.0	2.0	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)