

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: P457994

Luminaire Tested: **GALN-SA9B-827-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457994  
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-SA9B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA 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: 31069 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

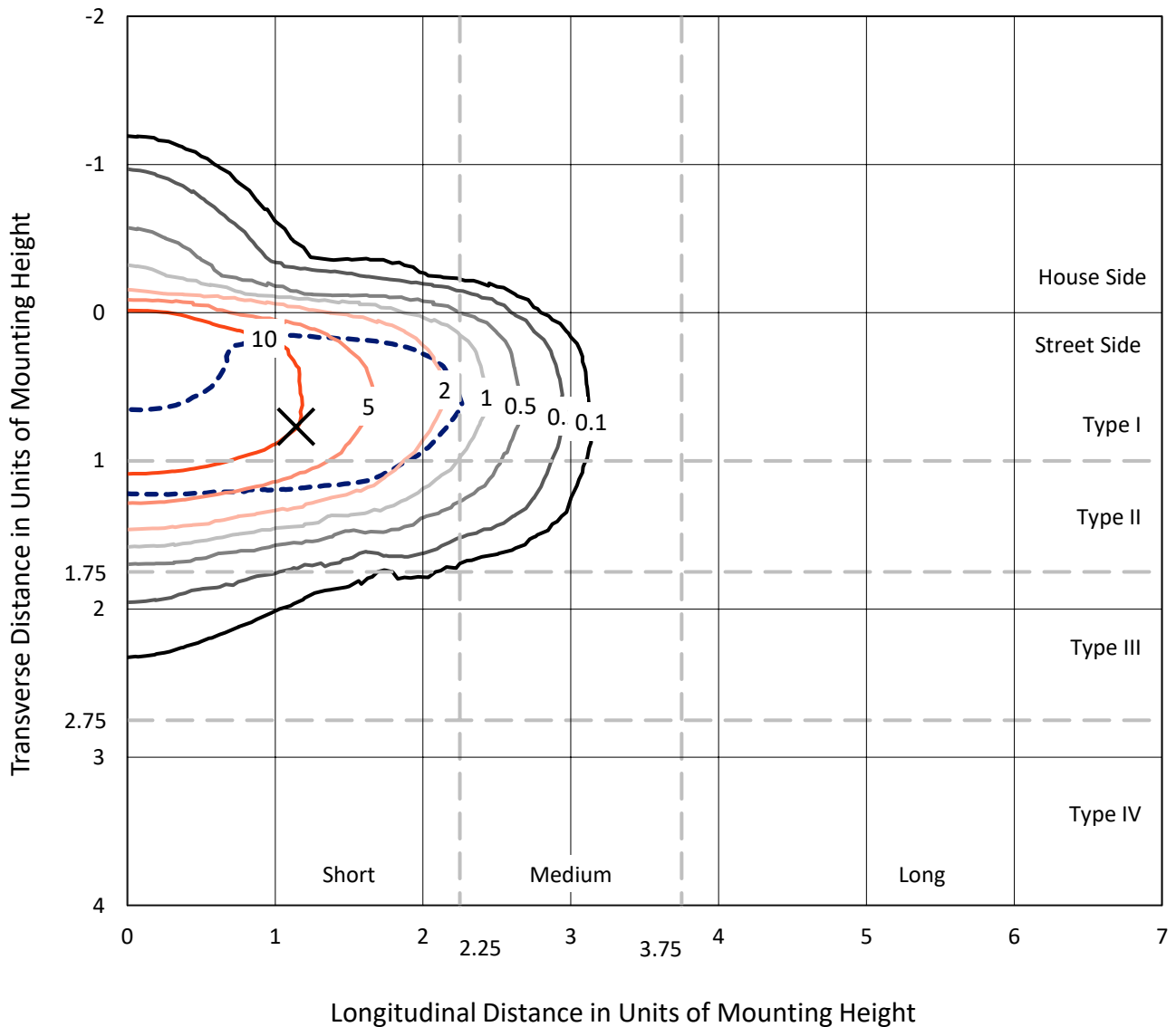
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

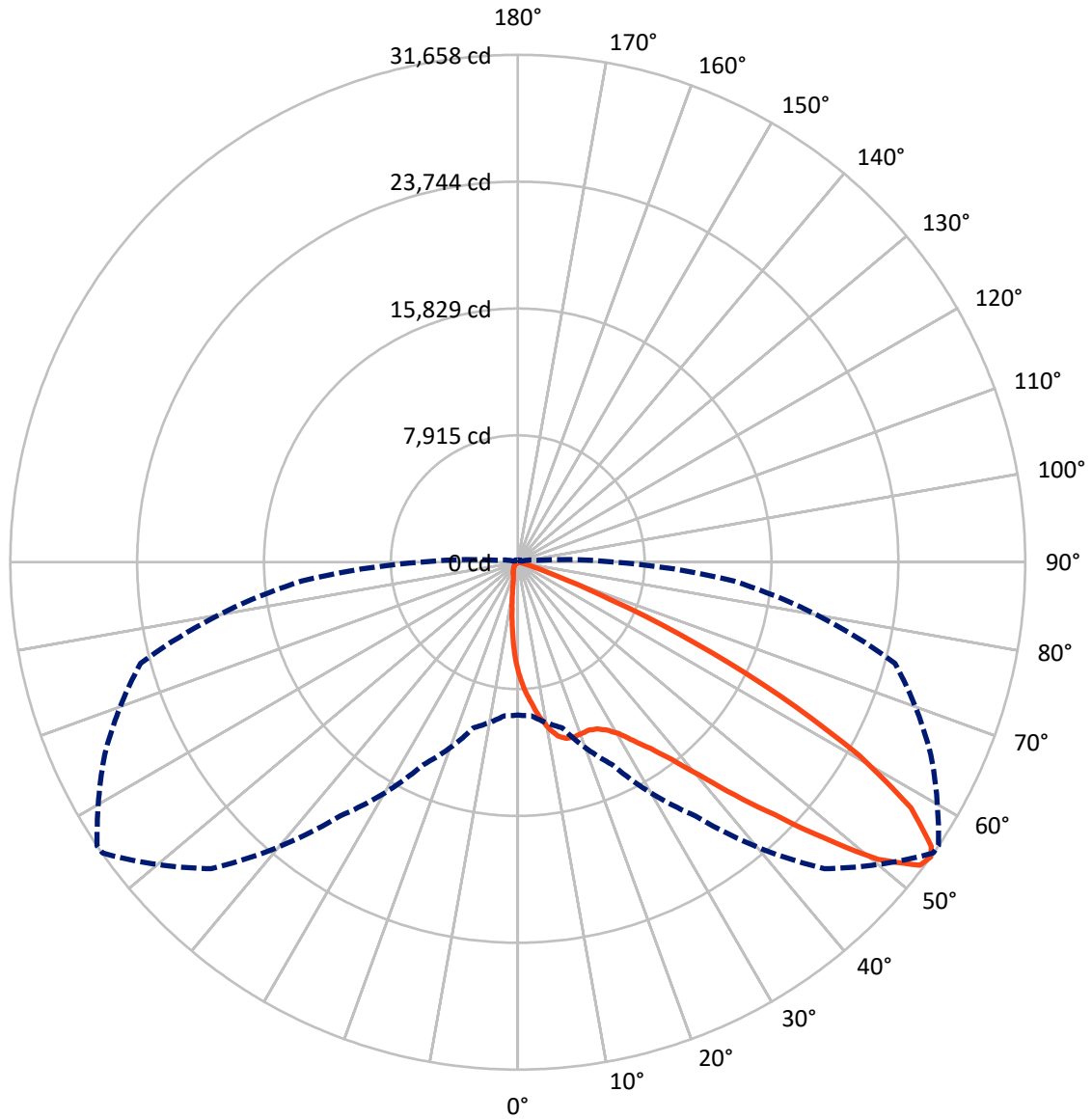
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	1469.2	0.0	1469.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	29599.8	0.0	29599.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	31069.0	0.0	31069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.0	2.0
10°-20°	1648.9	5.3
20°-30°	2855.8	9.2
30°-40°	4929.5	15.9
40°-50°	8390.3	27.0
50°-60°	8303.2	26.7
60°-70°	3789.8	12.2
70°-80°	486.7	1.6
80°-90°	54.9	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°	31069.0	100.0
0°-180°	31069.0	100.0

**Coefficient of Utilization**



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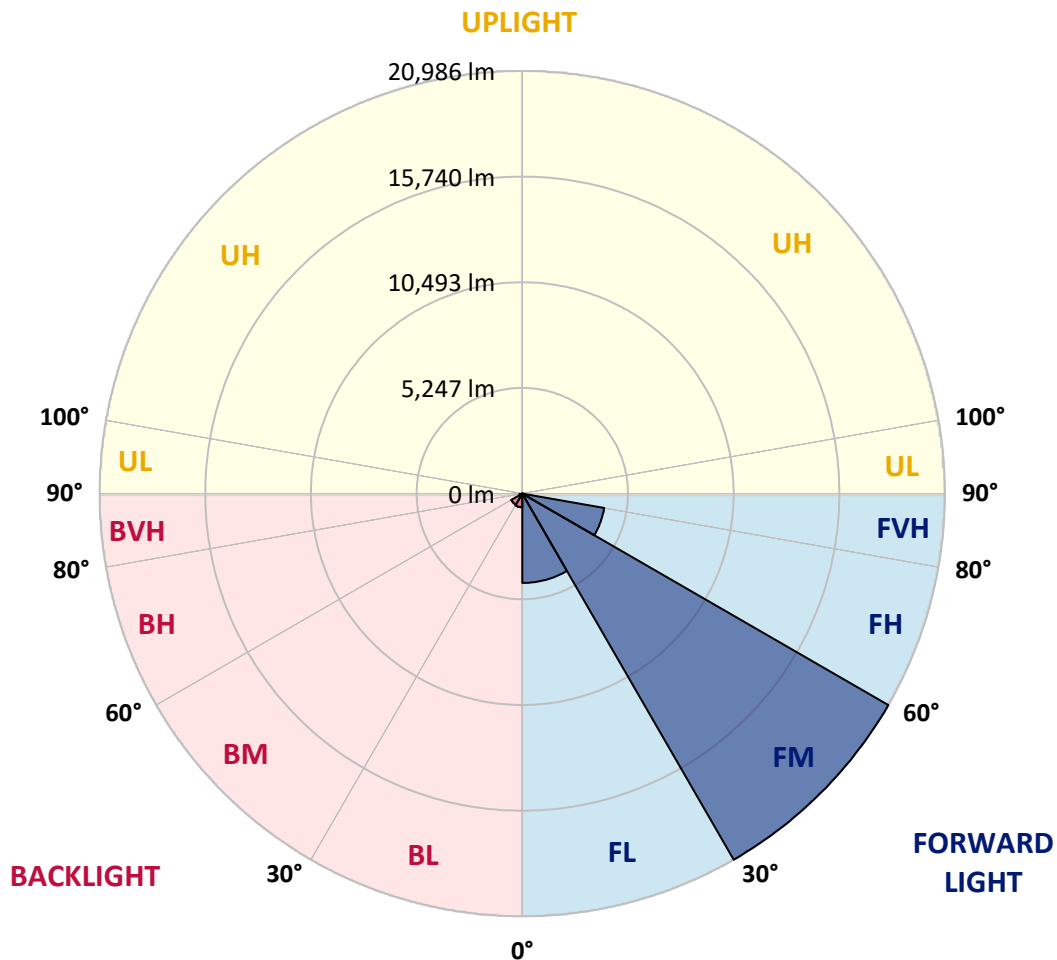
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4435.2	14.3			
FM	(30°-60°)	20986.3	67.5			
FH	(60°-80°)	4129.3	13.3			G2/5000
FVH	(80°-90°)	49.0	0.2			G1/100
BL	(0°-30°)	679.5	2.2	B2/1000		
BM	(30°-60°)	636.7	2.0	B1/1000		
BH	(60°-80°)	147.1	0.5	B1/500		G1/500
BVH	(80°-90°)	5.9	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°	56°	65°	75°	85°
0°	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6
2.5°	8772.4	8711.6	8627.8	8562.8	8409.8	8189.7	7957.0	7957.0	7732.7	7420.4	7101.8
5°	10118.1	10078.3	9996.6	9828.9	9657.0	9348.9	8881.4	8799.7	8399.3	7833.3	7238.0
7.5°	10665.2	10684.1	10688.3	10644.3	10562.5	10258.6	9795.3	9738.7	9099.4	8340.6	7416.2
10°	10141.2	10233.4	10323.6	10505.9	10763.8	10837.1	10575.1	10516.4	9887.6	8854.2	7609.0
12.5°	9361.4	9411.7	9462.0	9749.2	10267.0	10860.2	11134.8	11132.7	10600.3	9365.6	7854.3
15°	8998.8	9042.8	9047.0	9174.9	9623.4	10487.1	11373.7	11405.2	11296.2	9996.6	8118.4
17.5°	9074.3	9109.9	9080.5	9112.0	9346.8	10076.2	11346.5	11451.3	11860.0	10602.4	8357.4
20°	9566.9	9636.0	9522.8	9434.8	9506.1	9967.2	11254.3	11401.0	12258.3	11193.5	8575.4
22.5°	10451.4	10489.2	10346.6	10105.6	9979.8	10195.7	11229.1	11373.7	12597.9	11677.7	8701.1
25°	11434.5	11421.9	11264.7	10994.3	10730.2	10656.9	11394.7	11524.7	12878.8	12113.7	8738.9
27.5°	12417.6	12455.4	12191.2	11855.9	11539.3	11348.6	11765.7	11862.1	13195.3	12610.5	8785.0
30°	13560.0	13499.2	13239.3	12855.7	12493.1	12226.9	12363.1	12390.4	13631.3	13268.7	8906.6
32.5°	15046.2	14878.5	14587.1	13916.4	13656.5	13205.8	13239.3	13272.9	14161.6	13920.6	9053.3
35°	17062.7	17054.3	16484.2	15580.7	14947.7	14388.0	14241.3	14268.5	14964.5	14889.0	9378.2
37.5°	19490.0	19523.6	18873.8	17964.0	16798.6	15909.8	15608.0	15612.2	16184.4	16226.3	9872.9
40°	21466.7	21554.8	21167.0	20552.8	19402.0	18012.3	17505.0	17458.9	17899.1	17846.7	10579.3
42.5°	22317.8	22399.5	22544.1	22758.0	22124.9	20978.3	19781.4	19844.3	19978.5	19611.6	11371.6
45°	21900.6	22030.6	22598.6	23919.2	24514.5	24128.8	22701.4	22481.3	21913.2	21529.6	12168.2
47.5°	20162.9	20479.4	21429.0	23627.9	25711.4	27015.2	25996.5	25705.1	23850.1	22929.8	12675.4
50°	17305.9	17324.7	18647.4	21458.3	25091.0	28836.8	29360.8	29142.8	25654.8	23715.9	12931.2
52.5°	12545.5	12958.4	14170.0	17425.3	22403.7	28560.1	31505.2	31415.1	27516.2	24118.4	13300.1
54°	9537.5	9617.2	10694.6	13924.8	19316.1	27040.4	31637.3	31658.2	28440.6	24361.5	13518.1
55°	7818.7	7627.9	8759.8	11862.1	17209.4	25696.8	31205.5	31306.1	28855.7	24487.3	13679.5
57.5°	3706.0	3708.1	4573.8	6257.0	10778.4	19953.3	28566.4	28922.7	28901.8	24703.2	14176.3
60°	1876.1	1888.6	2079.4	2888.5	5324.2	13264.5	23619.5	24468.4	26677.8	24734.6	14339.8
62.5°	1312.2	1297.5	1266.1	1389.8	2240.8	6741.2	17584.6	18322.5	22665.7	23537.7	13820.0
65°	1123.5	1092.1	1004.1	985.2	1131.9	2685.2	10952.4	12155.6	17305.9	20380.9	12340.1
67.5°	960.0	947.5	867.8	819.6	800.7	1169.7	5651.2	6284.3	11828.6	14650.0	9346.8
70°	815.4	809.1	760.9	700.1	647.7	700.1	2096.2	2597.1	6592.4	7887.8	4410.3
72.5°	662.4	668.7	677.1	599.5	545.0	496.8	895.1	1041.8	2758.5	2819.3	1542.8
75°	580.6	574.3	574.3	521.9	454.9	368.9	492.6	530.3	844.8	784.0	358.4
77.5°	408.8	394.1	461.2	429.7	379.4	262.0	280.9	297.7	350.1	299.8	167.7
80°	283.0	283.0	295.6	385.7	341.7	190.8	171.9	184.5	207.5	178.2	96.4
82.5°	159.3	163.5	192.8	205.4	199.1	127.9	113.2	115.3	138.3	121.6	60.8
85°	18.9	31.4	111.1	109.0	81.8	56.6	62.9	65.0	85.9	75.5	35.6
87.5°	2.1	4.2	23.1	29.3	21.0	23.1	23.1	23.1	29.3	33.5	25.2
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°	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6	6902.6
2.5°	6929.9	6770.6	6391.2	5951.0	5670.1	5213.1	4827.4	4548.7	4479.5	4345.3	4385.2
5°	6921.5	6590.3	5816.8	4999.3	4127.3	3477.5	2993.3	2611.8	2444.1	2333.0	2255.5
7.5°	6925.7	6407.9	5167.0	3865.3	2823.5	2186.3	1737.7	1505.0	1349.9	1284.9	1293.3
10°	6938.3	6202.5	4412.4	2863.3	1905.4	1412.8	1138.2	1027.1	974.7	966.3	964.2
12.5°	6967.6	5978.2	3691.3	2125.5	1333.2	1027.1	922.3	884.6	867.8	867.8	861.5
15°	6999.1	5730.9	3091.8	1580.5	1027.1	882.5	834.3	815.4	804.9	804.9	802.8
17.5°	6999.1	5445.8	2532.2	1226.3	884.6	811.2	773.5	748.3	739.9	739.9	737.8
20°	6955.0	5114.6	2035.4	987.3	802.8	744.1	706.4	679.2	668.7	664.5	662.4
22.5°	6802.0	4672.3	1620.3	848.9	735.8	685.4	637.2	605.8	597.4	593.2	595.3
25°	6529.5	4173.4	1282.8	746.2	675.0	614.2	572.3	549.2	540.8	540.8	542.9
27.5°	6248.6	3651.5	1016.6	668.7	601.6	547.1	513.6	498.9	496.8	503.1	505.2
30°	5988.7	3127.5	823.8	605.8	536.6	490.5	467.4	463.3	463.3	465.3	467.4
32.5°	5699.4	2668.4	689.6	551.3	484.2	444.4	431.8	431.8	436.0	436.0	440.2
35°	5517.1	2274.3	605.8	498.9	444.4	410.8	402.5	404.6	410.8	419.2	423.4
37.5°	5418.6	1959.9	551.3	457.0	406.7	383.6	375.2	379.4	394.1	408.8	410.8
40°	5426.9	1723.0	507.3	421.3	377.3	352.2	345.9	358.4	373.1	387.8	389.9
42.5°	5519.2	1547.0	465.3	379.4	352.2	316.5	314.4	327.0	333.3	348.0	350.1
45°	5628.2	1419.1	421.3	335.4	306.0	274.6	276.7	287.2	295.6	318.6	322.8
47.5°	5661.7	1331.1	371.0	285.1	251.5	241.1	243.2	249.4	266.2	287.2	289.3
50°	5699.4	1276.6	322.8	241.1	213.8	211.7	213.8	218.0	228.5	236.9	234.8
52.5°	5860.8	1274.5	283.0	209.6	182.4	186.6	188.7	186.6	178.2	165.6	161.4
54°	6011.8	1280.8	264.1	194.9	167.7	174.0	171.9	161.4	140.4	127.9	121.6
55°	6133.3	1287.0	253.6	184.5	159.3	161.4	163.5	142.5	115.3	102.7	98.5
57.5°	6372.3	1272.4	228.5	161.4	140.4	132.1	130.0	94.3	62.9	54.5	50.3
60°	6252.8	1148.7	207.5	138.3	119.5	106.9	88.0	52.4	31.4	23.1	23.1
62.5°	5783.3	974.7	184.5	113.2	98.5	81.8	46.1	29.3	14.7	8.4	6.3
65°	5173.3	819.6	165.6	90.1	77.6	52.4	25.2	18.9	6.3	0.0	0.0
67.5°	3846.4	607.9	140.4	71.3	58.7	33.5	16.8	10.5	2.1	0.0	0.0
70°	1781.7	371.0	119.5	54.5	41.9	25.2	12.6	6.3	0.0	0.0	0.0
72.5°	511.5	232.7	98.5	39.8	29.3	21.0	10.5	4.2	2.1	0.0	0.0
75°	178.2	186.6	73.4	29.3	23.1	14.7	8.4	4.2	2.1	0.0	0.0
77.5°	106.9	150.9	46.1	25.2	18.9	12.6	8.4	4.2	2.1	2.1	0.0
80°	60.8	100.6	29.3	21.0	16.8	10.5	6.3	4.2	2.1	2.1	0.0
82.5°	33.5	48.2	23.1	18.9	14.7	10.5	6.3	4.2	2.1	2.1	2.1
85°	27.3	25.2	18.9	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
87.5°	21.0	16.8	16.8	16.8	12.6	8.4	6.3	2.1	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)