

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: P459132

Luminaire Tested: **GALN-SA6B-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25855 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

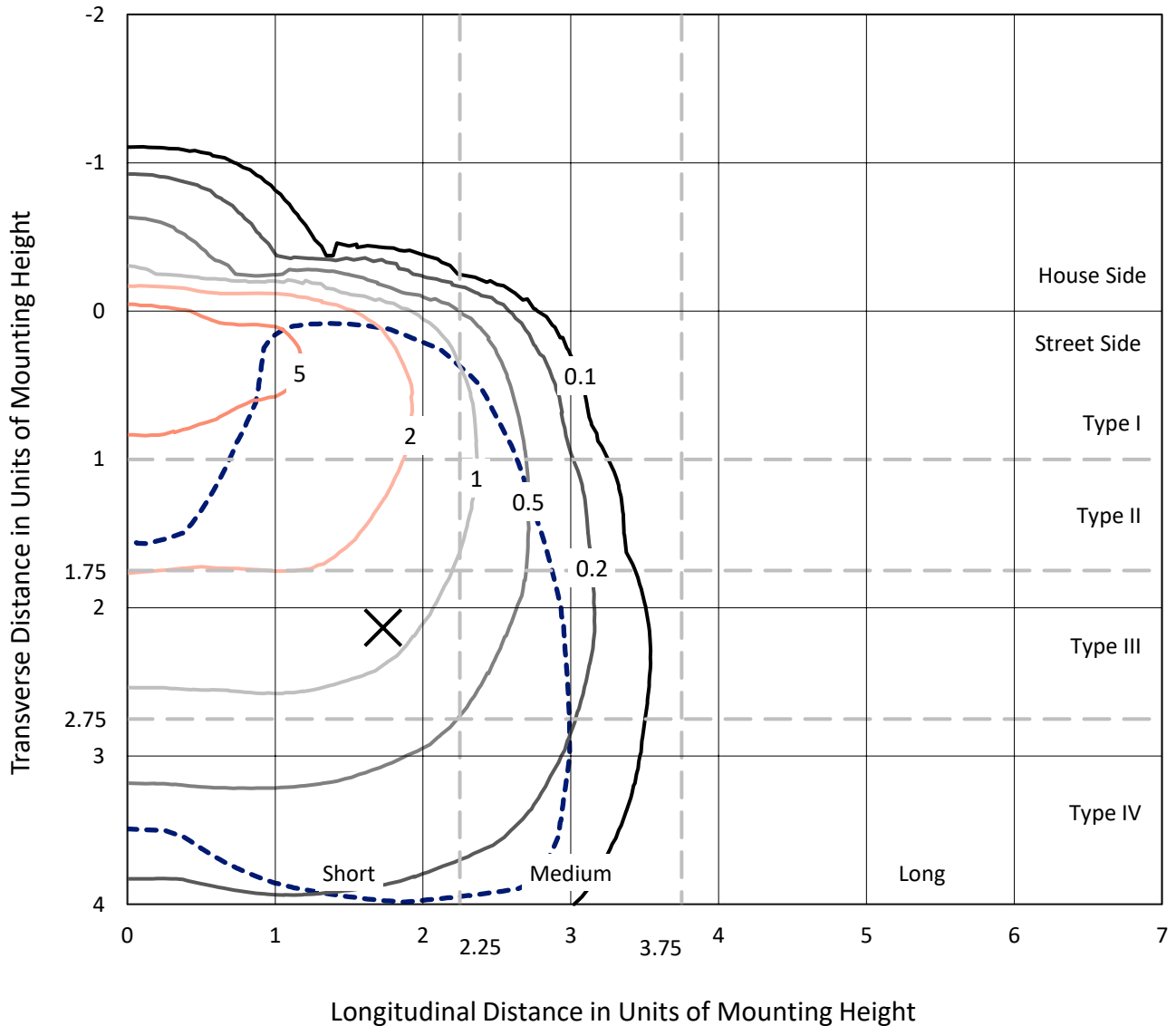
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

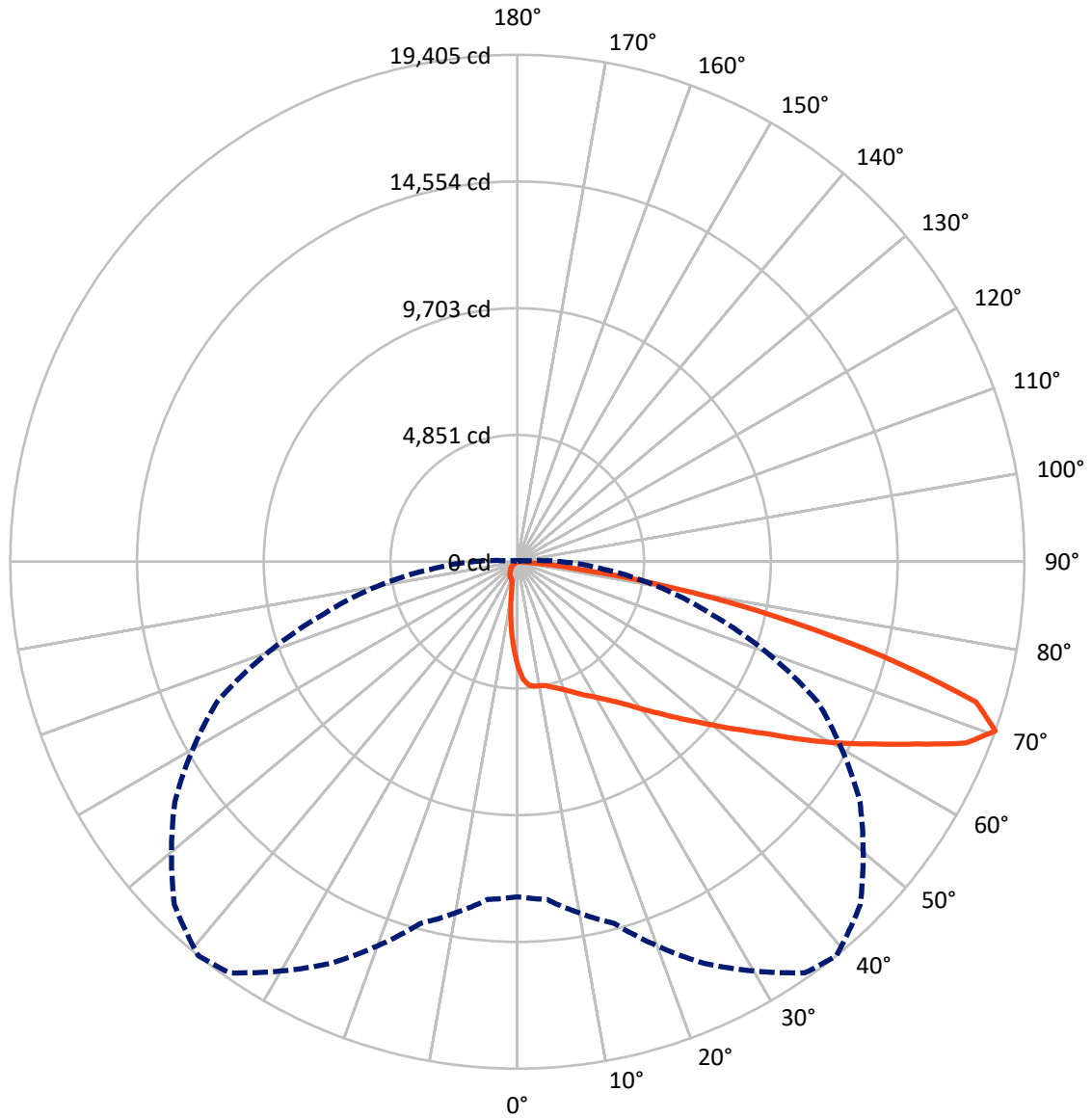
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1685.9	0.0	1685.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	24169.1	0.0	24169.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	25855.0	0.0	25855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.1	1.3
10°-20°	894.2	3.5
20°-30°	1498.0	5.8
30°-40°	2323.3	9.0
40°-50°	3681.7	14.2
50°-60°	5396.8	20.9
60°-70°	6917.4	26.8
70°-80°	4346.7	16.8
80°-90°	452.8	1.8
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°	25855.0	100.0
0°-180°	25855.0	100.0

**Coefficient of Utilization**



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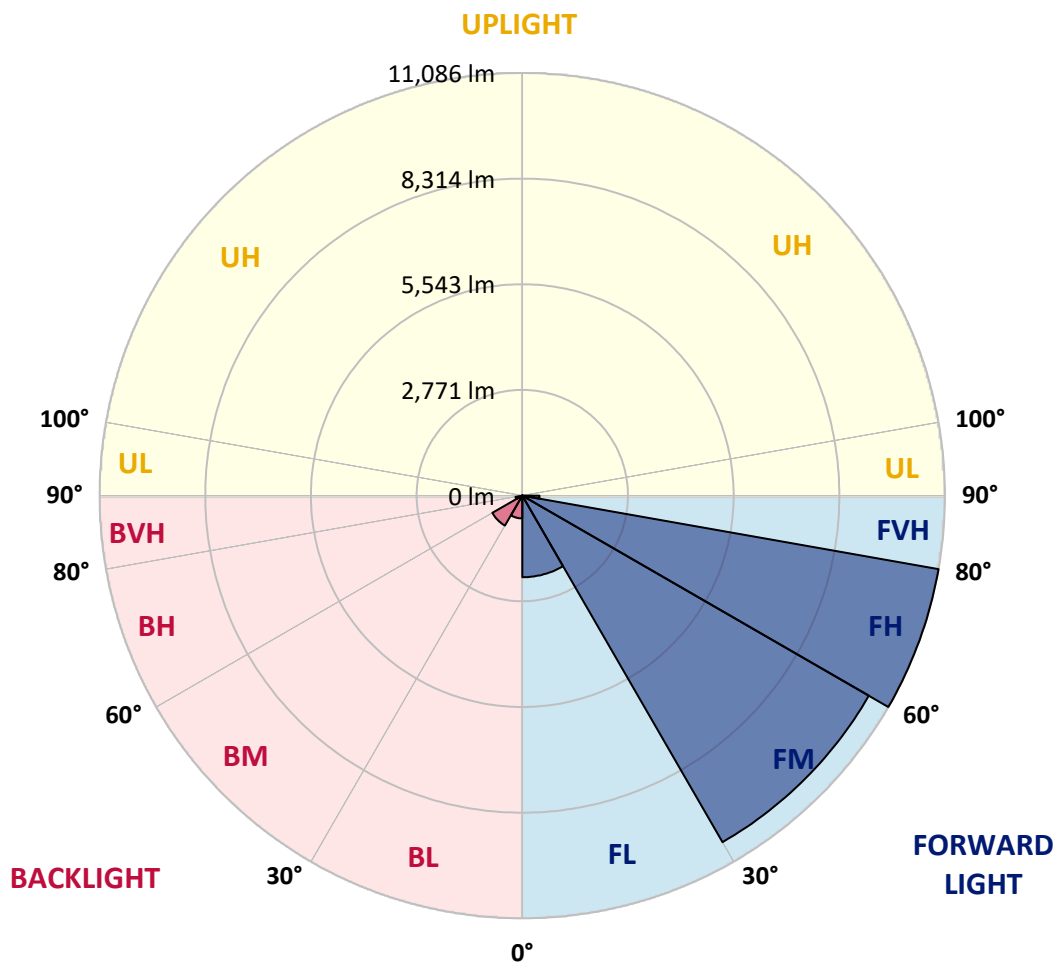
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.4	8.3			
FM (30°-60°)	10494.5	40.6			
FH (60°-80°)	11085.8	42.9			G4/12000
FVH (80°-90°)	449.5	1.7			G3/500
BL (0°-30°)	597.0	2.3	B2/1000		
BM (30°-60°)	907.3	3.5	B1/1000		
BH (60°-80°)	178.3	0.7	B1/500		G1/500
BVH (80°-90°)	3.3	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3
2.5°	4661.5	4645.8	4625.0	4600.7	4531.2	4519.0	4477.3	4388.7	4282.7	4195.8	4076.0
5°	4882.1	4890.8	4875.2	4831.7	4781.4	4751.8	4699.7	4562.4	4425.2	4249.7	4053.4
7.5°	4932.5	4949.9	4930.8	4889.1	4840.4	4809.2	4767.5	4649.3	4489.5	4289.7	4020.4
10°	4927.3	4948.1	4936.0	4897.8	4857.8	4828.3	4783.1	4689.3	4560.7	4350.5	4030.8
12.5°	4918.6	4946.4	4944.7	4925.6	4892.5	4870.0	4842.2	4758.8	4638.9	4439.1	4088.1
15°	4894.3	4929.0	4960.3	4975.9	4977.7	4977.7	4942.9	4854.3	4739.7	4555.5	4162.8
17.5°	4904.7	4944.7	5022.9	5068.0	5099.3	5095.8	5059.3	4963.8	4837.0	4675.4	4241.0
20°	4969.0	5022.9	5132.3	5222.7	5253.9	5243.5	5194.9	5083.7	4939.5	4777.9	4317.5
22.5°	5127.1	5175.7	5313.0	5419.0	5441.6	5413.8	5344.3	5193.1	5062.8	4889.1	4409.5
25°	5363.4	5420.7	5547.6	5627.5	5627.5	5611.8	5514.5	5337.3	5201.8	5043.7	4529.4
27.5°	5650.1	5698.7	5823.8	5895.0	5853.3	5808.2	5710.9	5497.2	5366.9	5238.3	4673.6
30°	5940.2	5971.5	6103.5	6134.8	6091.4	6034.0	5929.8	5716.1	5601.4	5502.4	4882.1
32.5°	6214.7	6282.5	6391.9	6385.0	6325.9	6298.1	6202.6	5975.0	5910.7	5900.2	5174.0
35°	6489.2	6541.3	6638.6	6663.0	6610.8	6605.6	6536.1	6367.6	6369.3	6437.1	5629.2
37.5°	6725.5	6772.4	6887.1	6941.0	6951.4	6977.4	6949.6	6838.4	6996.6	7182.5	6232.1
40°	6923.6	6989.6	7135.5	7229.4	7337.1	7432.6	7437.9	7462.2	7780.1	8099.8	7019.1
42.5°	7078.2	7170.3	7382.3	7556.0	7802.7	7924.3	8021.6	8155.4	8690.5	9168.3	7946.9
45°	7279.7	7385.7	7649.8	7922.6	8308.3	8508.1	8643.6	9001.5	9760.8	10412.3	8899.0
47.5°	7613.3	7668.9	7938.2	8336.1	8843.4	9128.4	9392.4	9934.5	10909.2	11493.0	9691.3
50°	8042.5	8079.0	8282.2	8834.7	9491.5	9866.8	10348.0	10985.6	12101.1	12389.5	10139.5
52.5°	8516.8	8528.9	8681.8	9383.8	10217.7	10690.3	11228.9	12015.9	13072.3	13028.8	10436.6
55°	9067.5	9050.2	9180.5	9979.7	11077.7	11618.1	12245.3	13070.5	13914.9	13482.3	10606.9
57.5°	9698.2	9651.3	9778.1	10770.2	12179.2	12825.6	13463.2	13980.9	14568.2	13862.8	10688.5
60°	10358.4	10264.6	10415.8	11658.0	13477.1	14090.4	14620.3	14759.3	15256.2	14165.1	10547.8
62.5°	10884.9	10886.6	11168.1	12603.2	14811.4	15348.3	15629.7	15754.8	15848.7	14099.1	9807.7
65°	11706.7	11734.5	12184.5	13914.9	16356.0	16821.6	17014.5	16607.9	15874.7	13279.0	8695.7
67.5°	12554.5	12643.1	13466.7	15721.8	18140.3	18515.6	18267.1	16773.0	15165.9	11407.8	6593.5
70°	12830.8	12976.7	14333.6	16965.8	19210.5	19405.1	18564.2	16003.3	12677.9	7627.2	3318.5
72.5°	11757.1	11993.3	13835.0	16512.3	18527.7	18359.2	16609.6	13421.5	8059.8	2896.3	1012.9
75°	8290.9	8395.2	11498.2	13697.7	14901.8	14424.0	12634.4	8652.3	3315.0	813.1	347.5
77.5°	4281.0	4230.6	6838.4	9088.4	10627.7	10132.6	8273.5	4479.0	1256.1	338.8	215.4
80°	2213.5	2249.9	2958.8	4762.2	6487.5	5969.7	4411.3	2076.2	668.9	187.6	165.1
82.5°	1240.5	1164.1	1700.9	2079.7	3033.5	2378.5	1692.2	1469.8	291.9	112.9	156.4
85°	225.9	236.3	933.0	1124.1	1052.9	668.9	545.5	981.6	85.1	62.5	109.5
87.5°	3.5	3.5	180.7	323.2	205.0	93.8	172.0	140.7	17.4	24.3	19.1
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°	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3	4034.3
2.5°	4015.2	3949.1	3825.8	3704.2	3549.5	3422.7	3337.6	3249.0	3158.6	3165.6	3186.4
5°	3945.7	3831.0	3587.8	3330.6	3083.9	2861.5	2642.6	2446.3	2366.4	2293.4	2296.9
7.5°	3876.2	3714.6	3358.4	2955.3	2581.8	2203.0	1928.5	1702.7	1582.8	1492.4	1466.4
10°	3844.9	3631.2	3148.2	2594.0	2064.0	1650.5	1297.8	1113.7	971.2	926.0	938.2
12.5°	3858.8	3589.5	2958.8	2267.3	1636.6	1150.2	903.5	809.6	778.4	773.1	769.7
15°	3884.8	3560.0	2772.9	1905.9	1202.3	854.8	759.2	741.9	738.4	734.9	736.7
17.5°	3919.6	3533.9	2574.8	1567.1	922.6	747.1	719.3	710.6	708.9	708.9	708.9
20°	3954.3	3504.4	2354.2	1264.8	769.7	705.4	688.0	682.8	681.1	681.1	679.3
22.5°	3994.3	3478.3	2130.1	993.8	708.9	675.9	660.2	656.7	655.0	653.3	653.3
25°	4051.6	3445.3	1892.0	813.1	670.6	648.1	632.4	628.9	627.2	620.3	622.0
27.5°	4128.1	3421.0	1647.1	701.9	635.9	613.3	602.9	597.7	594.2	589.0	590.7
30°	4232.3	3400.1	1386.5	641.1	595.9	576.8	566.4	562.9	559.4	554.2	554.2
32.5°	4413.0	3408.8	1111.9	592.5	559.4	536.9	526.4	523.0	519.5	514.3	514.3
35°	4684.1	3459.2	889.6	550.8	516.0	493.4	483.0	483.0	477.8	470.8	469.1
37.5°	5127.1	3587.8	714.1	510.8	474.3	453.5	441.3	437.8	432.6	422.2	420.5
40°	5650.1	3787.6	601.1	470.8	436.1	415.2	404.8	394.4	380.5	370.1	368.3
42.5°	6306.8	3992.6	521.2	430.9	399.6	380.5	368.3	351.0	330.1	316.2	314.5
45°	6991.3	4180.2	467.4	394.4	364.9	349.2	335.3	307.5	281.5	264.1	262.3
47.5°	7502.1	4215.0	423.9	359.6	335.3	319.7	300.6	265.8	231.1	215.4	210.2
50°	7743.6	4046.4	378.8	324.9	305.8	288.4	264.1	224.1	185.9	166.8	163.3
52.5°	7828.8	3754.5	342.3	293.6	276.2	255.4	225.9	180.7	145.9	126.8	125.1
55°	7794.0	3386.2	309.3	264.1	241.5	217.2	187.6	144.2	107.7	92.1	88.6
57.5°	7611.6	2917.1	276.2	234.6	206.8	182.4	149.4	107.7	73.0	59.1	57.3
60°	7119.9	2277.7	243.2	201.5	175.5	149.4	118.1	76.4	45.2	33.0	33.0
62.5°	6289.4	1690.5	212.0	168.5	147.7	119.9	83.4	48.6	24.3	17.4	15.6
65°	5255.7	1247.5	177.2	142.5	123.4	93.8	59.1	29.5	12.2	5.2	3.5
67.5°	3667.7	769.7	147.7	116.4	100.8	67.8	36.5	12.2	5.2	0.0	0.0
70°	1666.2	366.6	112.9	88.6	76.4	48.6	19.1	6.9	3.5	0.0	0.0
72.5°	517.7	192.9	79.9	64.3	52.1	31.3	10.4	5.2	3.5	0.0	0.0
75°	239.8	123.4	50.4	34.7	29.5	15.6	6.9	3.5	1.7	0.0	0.0
77.5°	179.0	95.6	29.5	19.1	15.6	10.4	5.2	3.5	1.7	0.0	0.0
80°	156.4	48.6	17.4	12.2	8.7	6.9	3.5	1.7	0.0	0.0	0.0
82.5°	140.7	24.3	10.4	6.9	5.2	3.5	1.7	1.7	0.0	0.0	0.0
85°	76.4	13.9	6.9	5.2	3.5	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.9	6.9	5.2	3.5	3.5	1.7	1.7	1.7	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)