

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: P459364

Luminaire Tested: **GALN-SA8B-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459364  
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-SA8B-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 35209 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

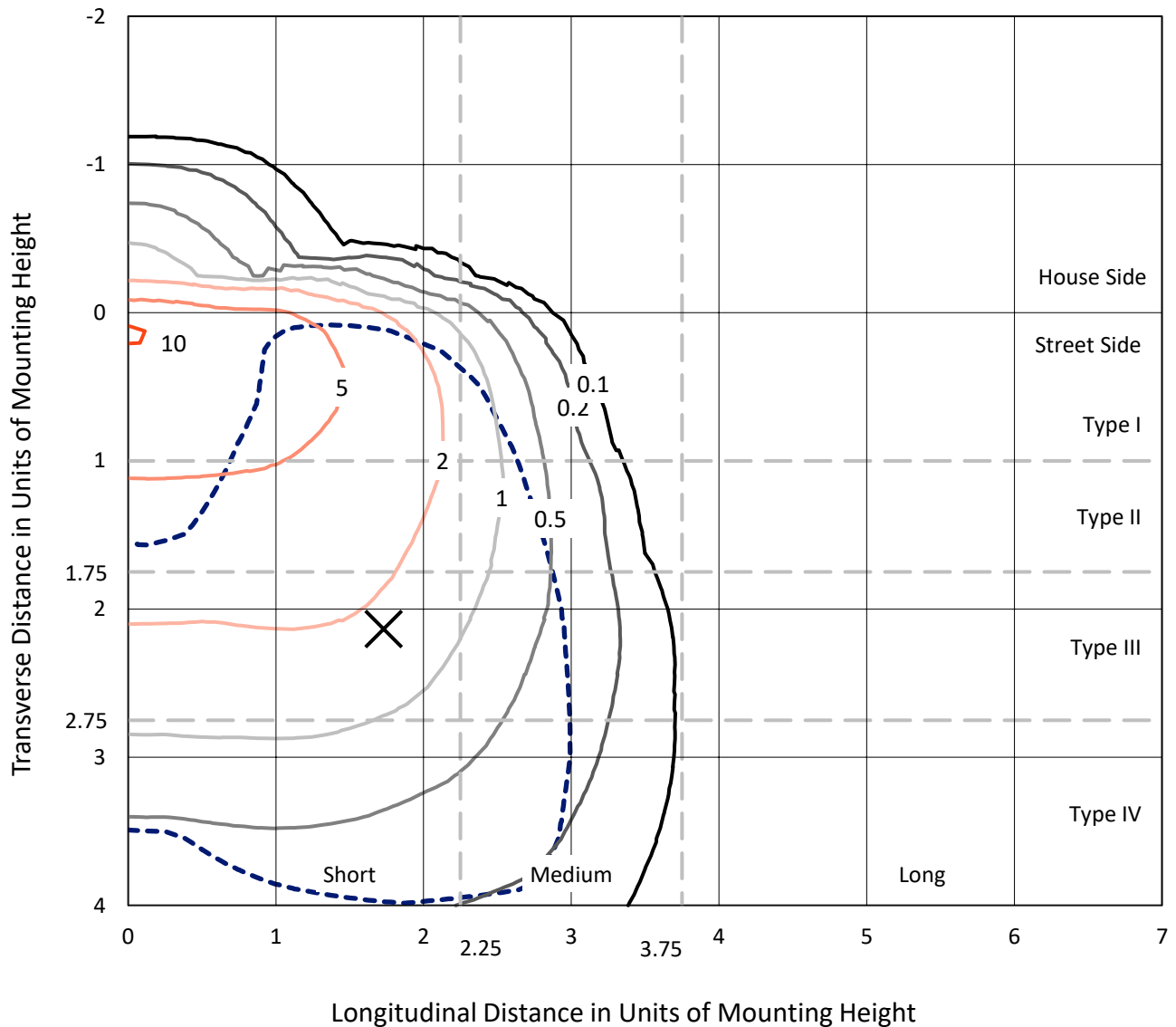
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

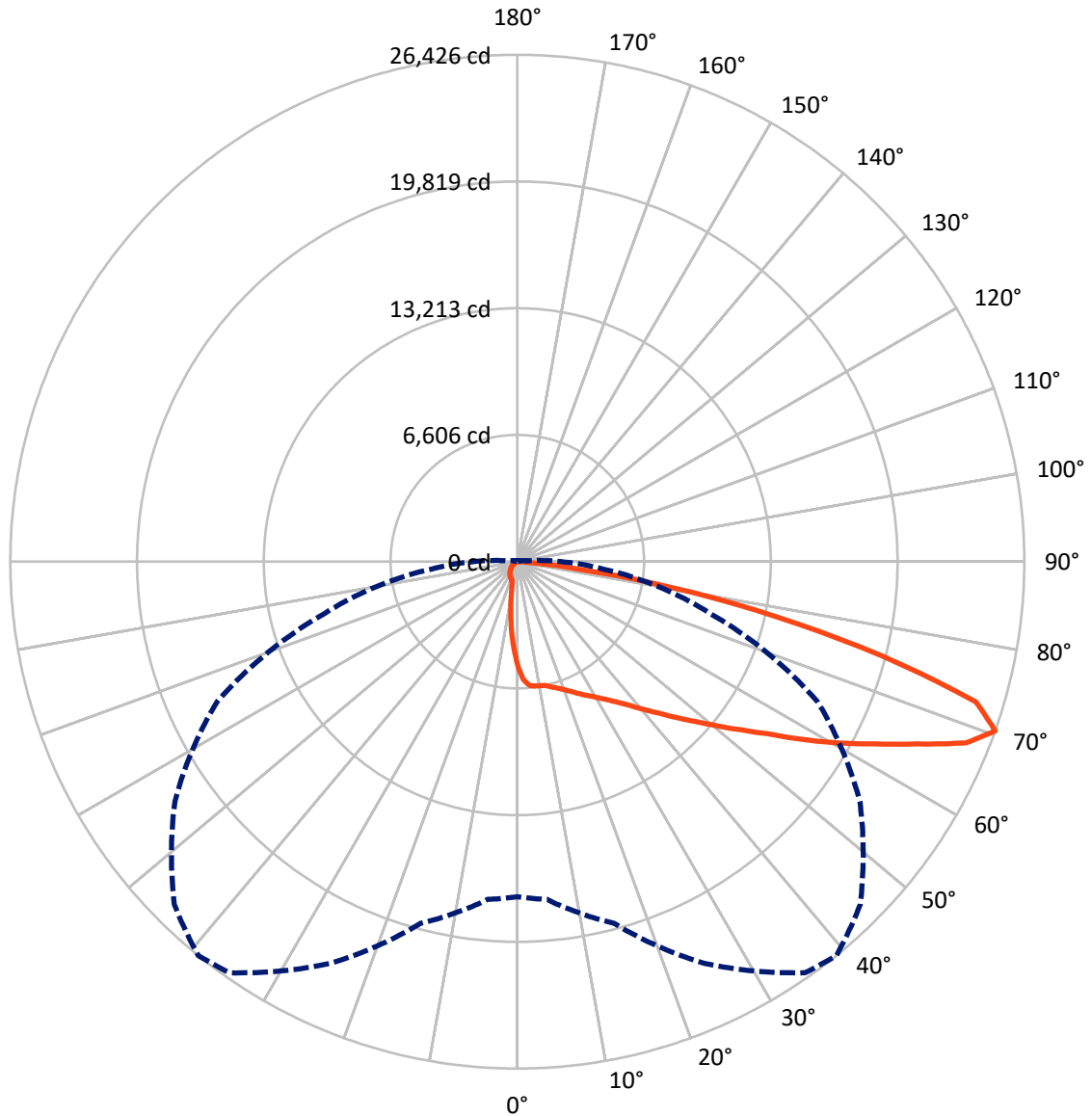
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	2295.8	0.0	2295.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	32913.2	0.0	32913.2
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	35209.0	0.0	35209.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.6	1.3
10°-20°	1217.7	3.5
20°-30°	2040.0	5.8
30°-40°	3163.8	9.0
40°-50°	5013.7	14.2
50°-60°	7349.3	20.9
60°-70°	9420.0	26.8
70°-80°	5919.2	16.8
80°-90°	616.7	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°	35209.0	100.0
0°-180°	35209.0	100.0



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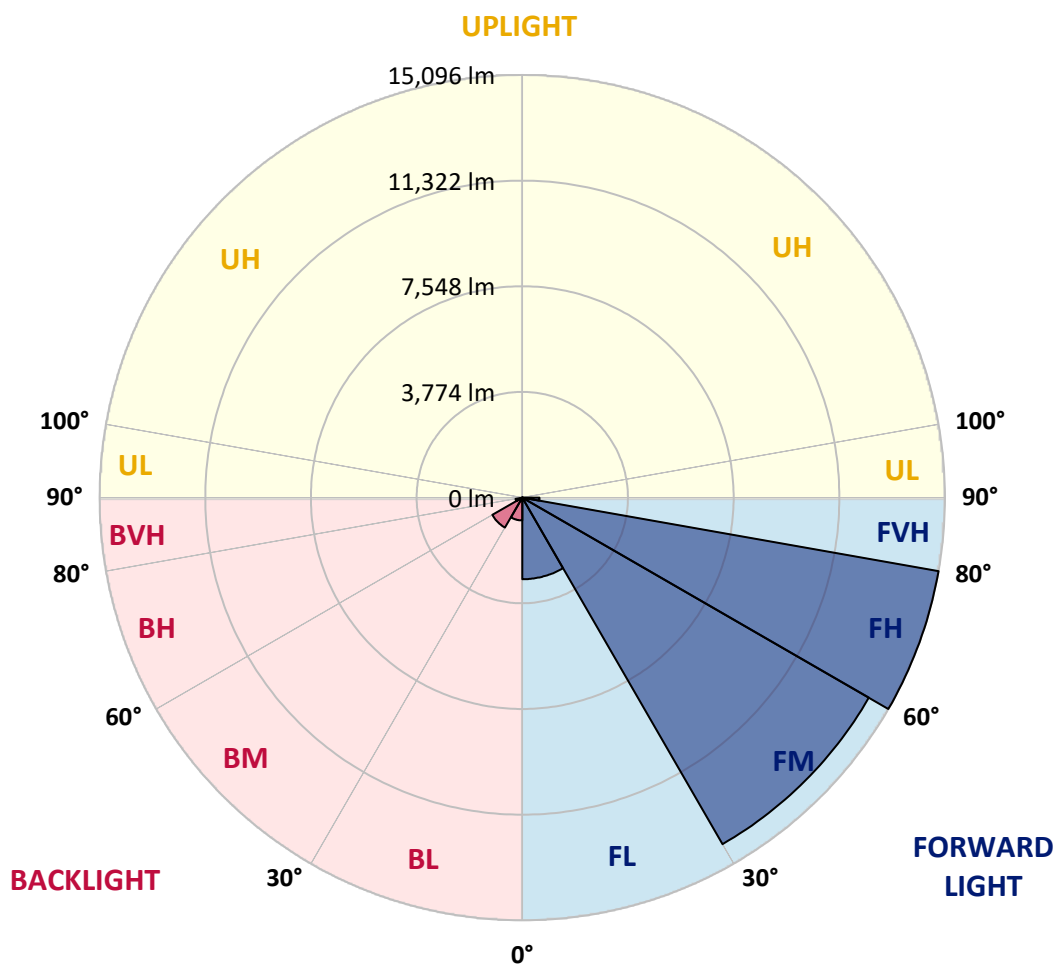
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2913.4	8.3			
FM	(30°-60°)	14291.3	40.6			
FH	(60°-80°)	15096.5	42.9			G5
FVH	(80°-90°)	612.1	1.7			G4/750
BL	(0°-30°)	812.9	2.3	B2/1000		
BM	(30°-60°)	1235.5	3.5	B2/2500		
BH	(60°-80°)	242.8	0.7	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8
2.5°	6347.9	6326.6	6298.2	6265.1	6170.5	6153.9	6097.1	5976.5	5832.1	5713.8	5550.6
5°	6648.4	6660.2	6638.9	6579.8	6511.2	6471.0	6400.0	6213.1	6026.2	5787.2	5519.8
7.5°	6717.0	6740.7	6714.7	6657.9	6591.6	6549.0	6492.3	6331.4	6113.7	5841.6	5474.9
10°	6709.9	6738.3	6721.8	6669.7	6615.3	6575.1	6513.6	6385.8	6210.7	5924.4	5489.1
12.5°	6698.1	6736.0	6733.6	6707.6	6662.6	6631.8	6594.0	6480.4	6317.2	6045.1	5567.2
15°	6665.0	6712.3	6754.9	6776.2	6778.5	6778.5	6731.2	6610.6	6454.4	6203.6	5668.9
17.5°	6679.2	6733.6	6840.1	6901.6	6944.2	6939.4	6889.7	6759.6	6586.9	6366.9	5775.4
20°	6766.7	6840.1	6989.1	7112.1	7154.7	7140.5	7074.3	6922.9	6726.5	6506.5	5879.5
22.5°	6982.0	7048.3	7235.2	7379.5	7410.3	7372.4	7277.8	7071.9	6894.5	6657.9	6004.9
25°	7303.8	7381.9	7554.6	7663.4	7663.4	7642.1	7509.6	7268.3	7083.8	6868.4	6168.1
27.5°	7694.2	7760.4	7930.8	8027.8	7971.0	7909.5	7777.0	7486.0	7308.5	7133.4	6364.5
30°	8089.3	8131.9	8311.7	8354.3	8295.1	8217.1	8075.1	7784.1	7627.9	7493.1	6648.4
32.5°	8463.1	8555.4	8704.5	8695.0	8614.5	8576.7	8446.6	8136.6	8049.1	8034.9	7045.9
35°	8836.9	8907.9	9040.4	9073.5	9002.6	8995.5	8900.8	8671.3	8673.7	8766.0	7665.8
37.5°	9158.7	9222.6	9378.8	9452.1	9466.3	9501.8	9463.9	9312.5	9527.8	9781.0	8486.8
40°	9428.4	9518.3	9717.1	9844.9	9991.5	10121.7	10128.8	10161.9	10594.9	11030.2	9558.6
42.5°	9639.0	9764.4	10053.1	10289.7	10625.6	10791.2	10923.7	11105.9	11834.6	12485.3	10822.0
45°	9913.5	10057.8	10417.4	10788.9	11314.1	11586.2	11770.8	12258.2	13292.1	14179.3	12118.6
47.5°	10367.7	10443.4	10810.2	11352.0	12042.9	12430.9	12790.5	13528.7	14856.0	15651.0	13197.5
50°	10952.1	11001.8	11278.6	12031.0	12925.4	13436.4	14091.8	14960.1	16479.1	16871.8	13807.9
52.5°	11598.0	11614.6	11822.8	12778.7	13914.3	14557.9	15291.3	16363.1	17801.7	17742.5	14212.5
55°	12348.1	12324.4	12501.9	13590.2	15085.5	15821.3	16675.4	17799.3	18949.2	18360.0	14444.3
57.5°	13206.9	13143.0	13315.8	14666.7	16585.5	17465.7	18334.0	19039.1	19838.8	18878.2	14555.5
60°	14106.0	13978.2	14184.1	15875.7	18352.9	19188.1	19909.7	20099.0	20775.7	19289.9	14363.9
62.5°	14822.9	14825.2	15208.5	17162.8	20170.0	20901.1	21284.4	21454.7	21582.5	19199.9	13356.0
65°	15942.0	15979.8	16592.6	18949.2	22273.4	22907.4	23170.1	22616.4	21618.0	18083.2	11841.7
67.5°	17096.6	17217.3	18338.7	21409.8	24703.2	25214.3	24875.9	22841.2	20652.7	15535.0	8978.9
70°	17472.8	17671.5	19519.4	23103.8	26160.7	26425.7	25280.5	21793.1	17264.6	10386.7	4519.0
72.5°	16010.6	16332.4	18840.3	22486.3	25230.8	25001.3	22618.8	18277.2	10975.8	3944.1	1379.4
75°	11290.5	11432.4	15658.1	18653.4	20293.0	19642.4	17205.4	11782.6	4514.3	1107.3	473.2
77.5°	5829.8	5761.2	9312.5	12376.5	14472.7	13798.4	11266.8	6099.5	1710.6	461.4	293.4
80°	3014.3	3063.9	4029.3	6485.2	8834.6	8129.5	6007.2	2827.3	910.9	255.5	224.8
82.5°	1689.3	1585.2	2316.3	2832.1	4131.0	3239.0	2304.5	2001.6	397.5	153.8	212.9
85°	307.6	321.8	1270.5	1530.8	1433.8	910.9	742.9	1336.8	115.9	85.2	149.1
87.5°	4.7	4.7	246.1	440.1	279.2	127.8	234.2	191.6	23.7	33.1	26.0
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°	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8	5493.8
2.5°	5467.8	5377.9	5209.9	5044.3	4833.7	4661.0	4545.1	4424.4	4301.4	4310.8	4339.2
5°	5373.1	5217.0	4885.8	4535.6	4199.6	3896.8	3598.7	3331.3	3222.5	3123.1	3127.8
7.5°	5278.5	5058.5	4573.4	4024.5	3515.9	3000.1	2626.2	2318.7	2155.4	2032.4	1996.9
10°	5235.9	4944.9	4287.2	3532.4	2810.8	2247.7	1767.4	1516.6	1322.6	1261.1	1277.6
12.5°	5254.8	4888.1	4029.3	3087.6	2228.8	1566.3	1230.3	1102.5	1060.0	1052.9	1048.1
15°	5290.3	4847.9	3776.1	2595.5	1637.3	1164.1	1033.9	1010.3	1005.5	1000.8	1003.2
17.5°	5337.7	4812.4	3506.4	2134.1	1256.3	1017.4	979.5	967.7	965.3	965.3	965.3
20°	5385.0	4772.2	3205.9	1722.4	1048.1	960.6	936.9	929.8	927.5	927.5	925.1
22.5°	5439.4	4736.7	2900.7	1353.3	965.3	920.4	899.1	894.3	892.0	889.6	889.6
25°	5517.5	4691.7	2576.6	1107.3	913.3	882.5	861.2	856.5	854.1	844.7	847.0
27.5°	5621.6	4658.6	2243.0	955.9	865.9	835.2	821.0	813.9	809.2	802.1	804.4
30°	5763.5	4630.2	1888.1	873.0	811.5	785.5	771.3	766.6	761.8	754.7	754.7
32.5°	6009.6	4642.1	1514.2	806.8	761.8	731.1	716.9	712.2	707.4	700.3	700.3
35°	6378.7	4710.7	1211.4	750.0	702.7	671.9	657.7	657.7	650.6	641.2	638.8
37.5°	6982.0	4885.8	972.4	695.6	645.9	617.5	601.0	596.2	589.1	574.9	572.6
40°	7694.2	5157.8	818.6	641.2	593.9	565.5	551.3	537.1	518.2	504.0	501.6
42.5°	8588.5	5437.0	709.8	586.8	544.2	518.2	501.6	477.9	449.5	430.6	428.2
45°	9520.7	5692.6	636.4	537.1	496.9	475.6	456.6	418.8	383.3	359.6	357.3
47.5°	10216.3	5739.9	577.3	489.8	456.6	435.3	409.3	362.0	314.7	293.4	286.3
50°	10545.2	5510.4	515.8	442.4	416.4	392.8	359.6	305.2	253.2	227.1	222.4
52.5°	10661.1	5112.9	466.1	399.9	376.2	347.8	307.6	246.1	198.7	172.7	170.4
55°	10613.8	4611.3	421.1	359.6	328.9	295.7	255.5	196.4	146.7	125.4	120.7
57.5°	10365.4	3972.5	376.2	319.4	281.6	248.4	203.5	146.7	99.4	80.4	78.1
60°	9695.8	3101.8	331.2	274.5	239.0	203.5	160.9	104.1	61.5	45.0	45.0
62.5°	8564.9	2302.1	288.6	229.5	201.1	163.3	113.6	66.2	33.1	23.7	21.3
65°	7157.1	1698.8	241.3	194.0	168.0	127.8	80.4	40.2	16.6	7.1	4.7
67.5°	4994.6	1048.1	201.1	158.5	137.2	92.3	49.7	16.6	7.1	0.0	0.0
70°	2269.0	499.2	153.8	120.7	104.1	66.2	26.0	9.5	4.7	0.0	0.0
72.5°	705.1	262.6	108.8	87.5	71.0	42.6	14.2	7.1	4.7	0.0	0.0
75°	326.5	168.0	68.6	47.3	40.2	21.3	9.5	4.7	2.4	0.0	0.0
77.5°	243.7	130.1	40.2	26.0	21.3	14.2	7.1	4.7	2.4	0.0	0.0
80°	212.9	66.2	23.7	16.6	11.8	9.5	4.7	2.4	0.0	0.0	0.0
82.5°	191.6	33.1	14.2	9.5	7.1	4.7	2.4	2.4	0.0	0.0	0.0
85°	104.1	18.9	9.5	7.1	4.7	2.4	2.4	0.0	0.0	0.0	0.0
87.5°	18.9	9.5	7.1	4.7	4.7	2.4	2.4	2.4	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)