

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: P456921

Luminaire Tested: **GALN-SA8B-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456921
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-SA8B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 31484 lumens
Efficiency: N/A
Efficacy: 96.9 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

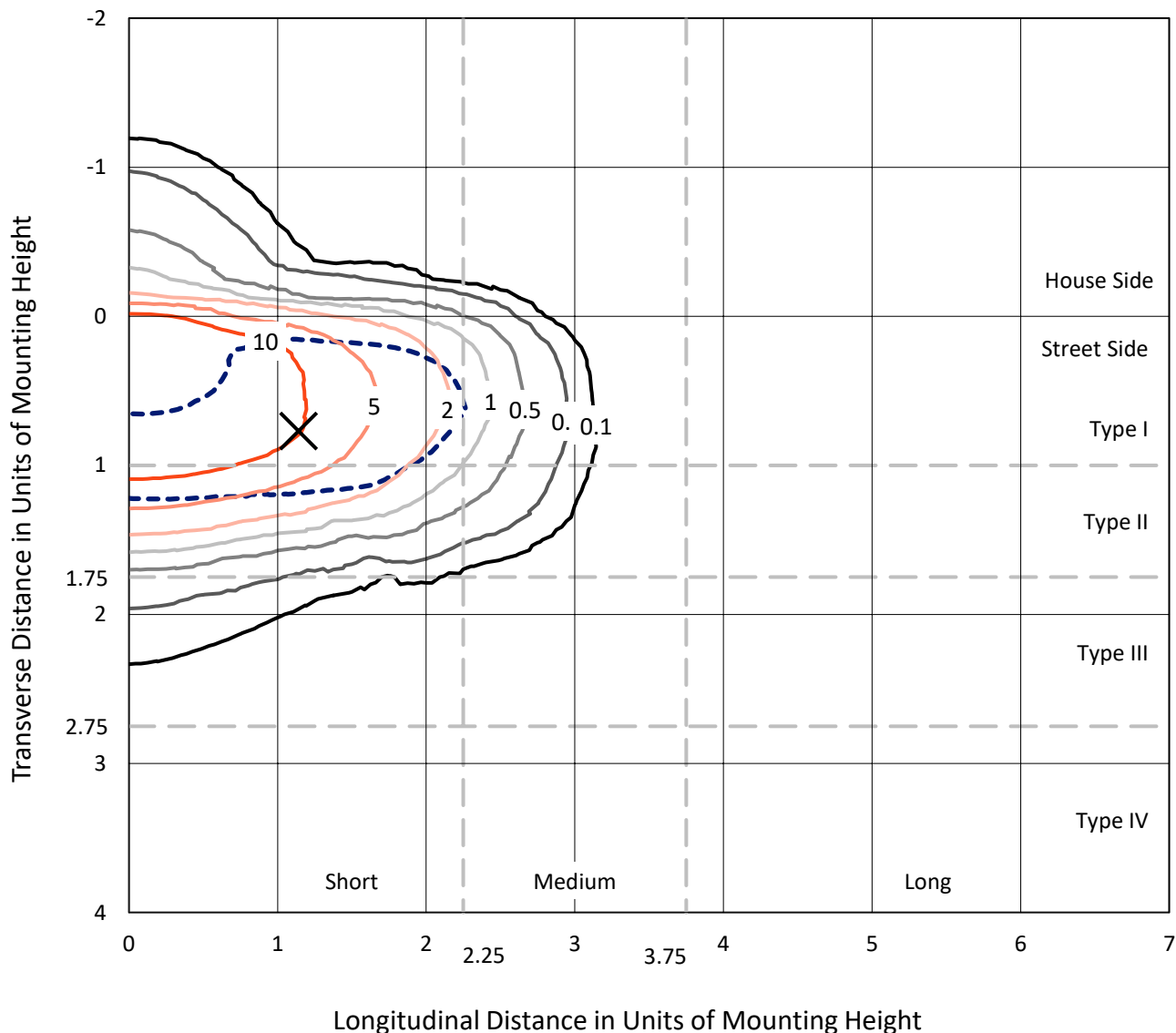
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

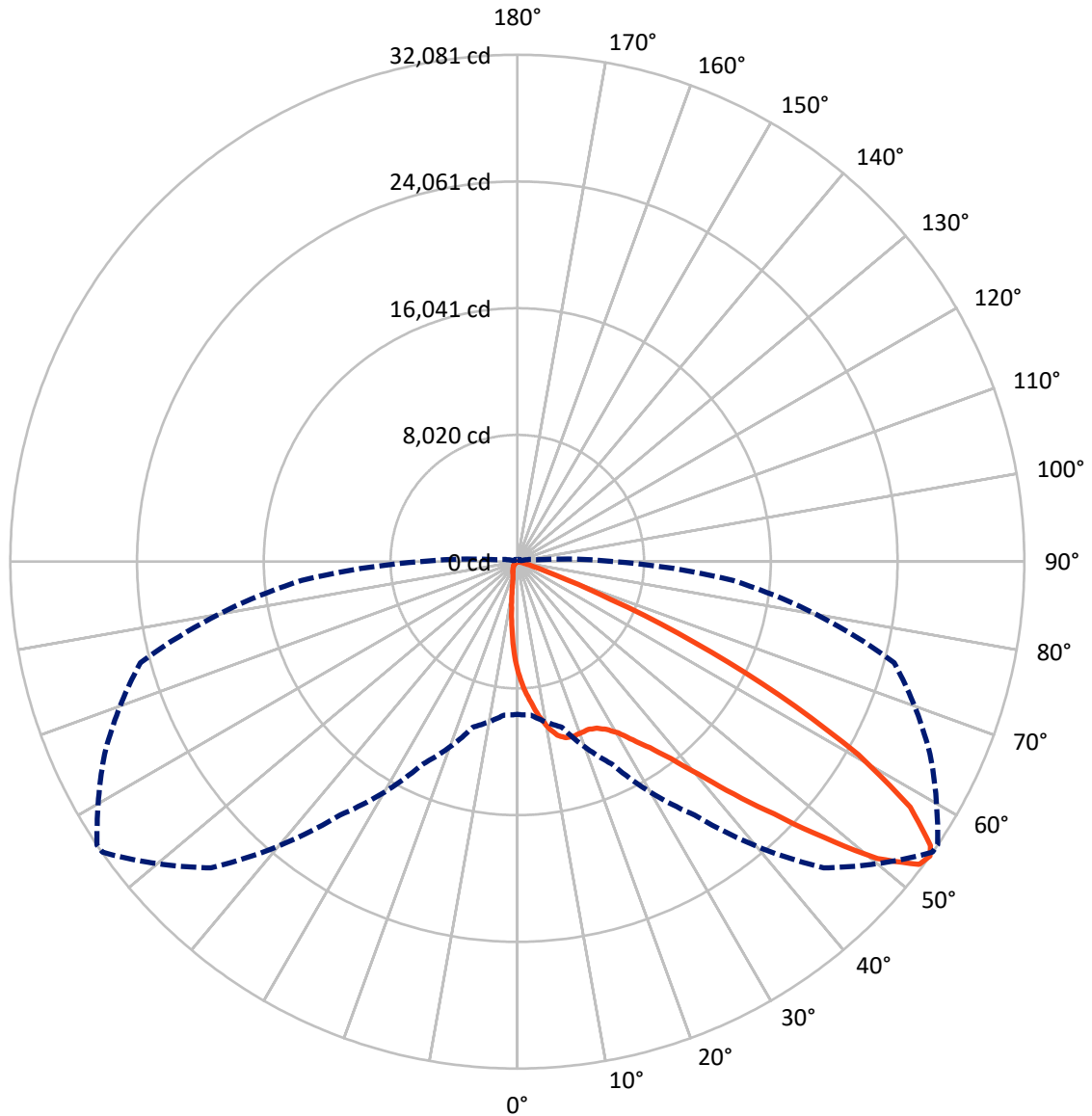
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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
House Side	Lumens	1488.8	0.0	1488.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	29995.2	0.0	29995.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	31484.0	0.0	31484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.1	2.0
10°-20°	1671.0	5.3
20°-30°	2893.9	9.2
30°-40°	4995.4	15.9
40°-50°	8502.3	27.0
50°-60°	8414.1	26.7
60°-70°	3840.4	12.2
70°-80°	493.2	1.6
80°-90°	55.6	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°	31484.0	100.0
0°-180°	31484.0	100.0



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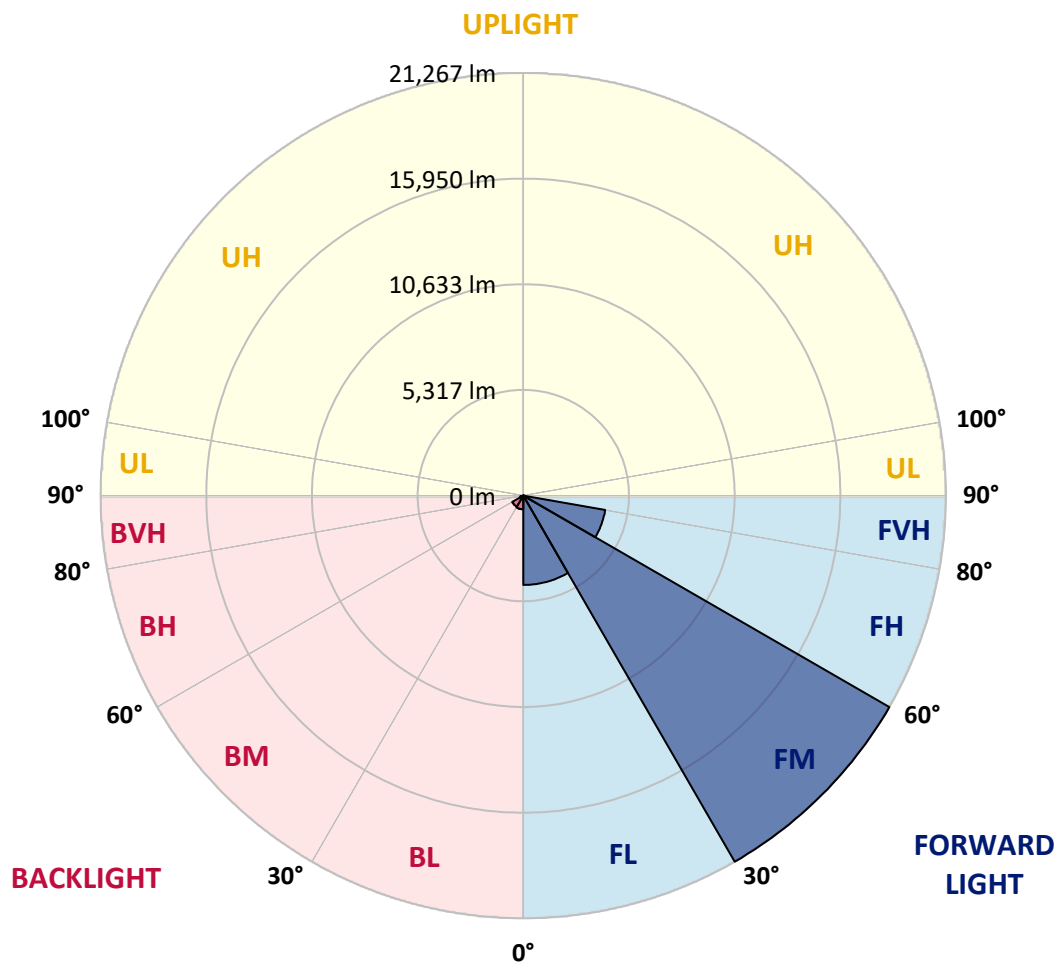
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4494.5	14.3			
FM (30°-60°)	21266.6	67.5			
FH (60°-80°)	4184.5	13.3			G2/5000
FVH (80°-90°)	49.6	0.2			G1/100
BL (0°-30°)	688.5	2.2	B2/1000		
BM (30°-60°)	645.2	2.0	B1/1000		
BH (60°-80°)	149.1	0.5	B1/500		G1/500
BVH (80°-90°)	6.0	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°	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8
2.5°	8889.6	8828.0	8743.0	8677.2	8522.1	8299.1	8063.3	8063.3	7836.0	7519.5	7196.6
5°	10253.3	10212.9	10130.1	9960.2	9786.0	9473.7	9000.0	8917.2	8511.5	7938.0	7334.7
7.5°	10807.7	10826.8	10831.1	10786.5	10703.6	10395.6	9926.2	9868.8	9221.0	8452.0	7515.3
10°	10276.7	10370.1	10461.5	10646.3	10907.5	10981.9	10716.4	10656.9	10019.6	8972.4	7710.7
12.5°	9486.5	9537.5	9588.4	9879.4	10404.1	11005.2	11283.5	11281.4	10741.8	9490.7	7959.2
15°	9119.0	9163.6	9167.8	9297.4	9752.0	10627.1	11525.7	11557.5	11447.1	10130.1	8226.8
17.5°	9195.5	9231.6	9201.8	9233.7	9471.6	10210.8	11498.0	11604.3	12018.5	10744.0	8469.0
20°	9694.6	9764.7	9650.0	9560.8	9633.0	10100.4	11404.6	11553.3	12422.1	11343.0	8689.9
22.5°	10591.0	10629.3	10484.8	10240.5	10113.1	10331.9	11379.1	11525.7	12766.2	11833.7	8817.4
25°	11587.3	11574.5	11415.2	11141.2	10873.5	10799.2	11546.9	11678.6	13050.8	12275.5	8855.6
27.5°	12583.5	12621.7	12354.1	12014.2	11693.5	11500.2	11922.9	12020.6	13371.6	12778.9	8902.3
30°	13741.2	13679.6	13416.2	13027.4	12660.0	12390.2	12528.3	12555.9	13813.4	13445.9	9025.5
32.5°	15247.2	15077.2	14782.0	14102.3	13838.9	13382.2	13416.2	13450.1	14350.8	14106.5	9174.2
35°	17290.6	17282.1	16704.3	15788.8	15147.3	14580.2	14431.5	14459.1	15164.3	15087.9	9503.5
37.5°	19750.4	19784.4	19125.9	18204.0	17023.0	16122.3	15816.5	15820.7	16400.6	16443.1	10004.8
40°	21753.5	21842.7	21449.7	20827.3	19661.2	18252.9	17738.8	17692.1	18138.2	18085.0	10720.6
42.5°	22615.9	22698.7	22845.3	23061.9	22420.4	21258.5	20045.6	20109.4	20245.3	19873.6	11523.5
45°	22193.2	22324.9	22900.5	24238.7	24842.0	24451.1	23004.6	22781.6	22205.9	21817.2	12330.7
47.5°	20432.2	20753.0	21715.2	23943.5	26054.9	27376.1	26343.8	26048.5	24168.6	23236.1	12844.8
50°	17537.0	17556.1	18896.5	21745.0	25426.1	29222.0	29753.0	29532.1	25997.5	24032.7	13103.9
52.5°	12713.1	13131.5	14359.3	17658.1	22703.0	28941.6	31926.0	31834.7	27883.8	24440.5	13477.8
54°	9664.9	9745.6	10837.4	14110.8	19574.1	27401.6	32059.9	32081.1	28820.5	24686.9	13698.7
55°	7923.1	7729.8	8876.8	12020.6	17439.3	26040.0	31622.3	31724.2	29241.1	24814.4	13862.2
57.5°	3755.5	3757.6	4634.9	6340.6	10922.4	20219.8	28948.0	29309.1	29287.8	25033.2	14365.7
60°	1901.1	1913.9	2107.2	2927.1	5395.4	13441.6	23935.0	24795.3	27034.1	25065.0	14531.3
62.5°	1329.7	1314.9	1283.0	1408.3	2270.7	6831.3	17819.5	18567.2	22968.5	23852.1	14004.5
65°	1138.5	1106.7	1017.5	998.4	1147.0	2721.0	11098.7	12318.0	17537.0	20653.2	12504.9
67.5°	972.9	960.1	879.4	830.5	811.4	1185.3	5726.7	6368.2	11986.6	14845.7	9471.6
70°	826.3	819.9	771.1	709.5	656.4	709.5	2124.2	2631.8	6680.5	7993.2	4469.2
72.5°	671.2	677.6	686.1	607.5	552.3	503.4	907.0	1055.7	2795.4	2857.0	1563.4
75°	588.4	582.0	582.0	528.9	460.9	373.9	499.2	537.4	856.0	794.4	363.2
77.5°	414.2	399.3	467.3	435.5	384.5	265.5	284.6	301.6	354.7	303.8	169.9
80°	286.8	286.8	299.5	390.8	346.2	193.3	174.2	186.9	210.3	180.6	97.7
82.5°	161.4	165.7	195.4	208.2	201.8	129.6	114.7	116.8	140.2	123.2	61.6
85°	19.1	31.9	112.6	110.5	82.8	57.4	63.7	65.8	87.1	76.5	36.1
87.5°	2.1	4.2	23.4	29.7	21.2	23.4	23.4	23.4	29.7	34.0	25.5
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°	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8
2.5°	7022.5	6861.0	6476.5	6030.5	5745.8	5282.8	4891.9	4609.4	4539.3	4403.4	4443.7
5°	7014.0	6678.3	5894.5	5066.1	4182.5	3524.0	3033.3	2646.7	2476.8	2364.2	2285.6
7.5°	7018.2	6493.5	5236.0	3916.9	2861.2	2215.5	1760.9	1525.1	1368.0	1302.1	1310.6
10°	7031.0	6285.4	4471.3	2901.6	1930.9	1431.7	1153.4	1040.8	987.7	979.2	977.1
12.5°	7060.7	6058.1	3740.6	2153.9	1351.0	1040.8	934.6	896.4	879.4	879.4	873.0
15°	7092.6	5807.4	3133.1	1601.6	1040.8	894.3	845.4	826.3	815.7	815.7	813.6
17.5°	7092.6	5518.6	2566.0	1242.6	896.4	822.0	783.8	758.3	749.8	749.8	747.7
20°	7047.9	5182.9	2062.6	1000.5	813.6	754.1	715.8	688.2	677.6	673.4	671.2
22.5°	6892.9	4734.7	1642.0	860.3	745.6	694.6	645.7	613.9	605.4	601.1	603.3
25°	6616.7	4229.2	1300.0	756.2	684.0	622.4	579.9	556.5	548.0	548.0	550.2
27.5°	6332.1	3700.3	1030.2	677.6	609.6	554.4	520.4	505.5	503.4	509.8	511.9
30°	6068.7	3169.2	834.8	613.9	543.8	497.1	473.7	469.4	469.4	471.6	473.7
32.5°	5775.6	2704.0	698.8	558.7	490.7	450.3	437.6	437.6	441.8	441.8	446.1
35°	5590.8	2304.7	613.9	505.5	450.3	416.3	407.8	410.0	416.3	424.8	429.1
37.5°	5490.9	1986.1	558.7	463.1	412.1	388.7	380.2	384.5	399.3	414.2	416.3
40°	5499.4	1746.1	514.0	427.0	382.3	356.9	350.5	363.2	378.1	393.0	395.1
42.5°	5592.9	1567.6	471.6	384.5	356.9	320.7	318.6	331.4	337.7	352.6	354.7
45°	5703.4	1438.1	427.0	339.9	310.1	278.3	280.4	291.0	299.5	322.9	327.1
47.5°	5737.3	1348.8	376.0	288.9	254.9	244.3	246.4	252.8	269.8	291.0	293.1
50°	5775.6	1293.6	327.1	244.3	216.7	214.5	216.7	220.9	231.5	240.0	237.9
52.5°	5939.1	1291.5	286.8	212.4	184.8	189.0	191.2	189.0	180.6	167.8	163.6
54°	6092.1	1297.9	267.6	197.5	169.9	176.3	174.2	163.6	142.3	129.6	123.2
55°	6215.3	1304.2	257.0	186.9	161.4	163.6	165.7	144.4	116.8	104.1	99.8
57.5°	6457.4	1289.4	231.5	163.6	142.3	133.8	131.7	95.6	63.7	55.2	51.0
60°	6336.4	1164.0	210.3	140.2	121.1	108.3	89.2	53.1	31.9	23.4	23.4
62.5°	5860.5	987.7	186.9	114.7	99.8	82.8	46.7	29.7	14.9	8.5	6.4
65°	5242.4	830.5	167.8	91.3	78.6	53.1	25.5	19.1	6.4	0.0	0.0
67.5°	3897.8	616.0	142.3	72.2	59.5	34.0	17.0	10.6	2.1	0.0	0.0
70°	1805.5	376.0	121.1	55.2	42.5	25.5	12.7	6.4	0.0	0.0	0.0
72.5°	518.3	235.8	99.8	40.4	29.7	21.2	10.6	4.2	2.1	0.0	0.0
75°	180.6	189.0	74.3	29.7	23.4	14.9	8.5	4.2	2.1	0.0	0.0
77.5°	108.3	152.9	46.7	25.5	19.1	12.7	8.5	4.2	2.1	2.1	0.0
80°	61.6	102.0	29.7	21.2	17.0	10.6	6.4	4.2	2.1	2.1	0.0
82.5°	34.0	48.9	23.4	19.1	14.9	10.6	6.4	4.2	2.1	2.1	2.1
85°	27.6	25.5	19.1	17.0	12.7	8.5	6.4	2.1	0.0	0.0	0.0
87.5°	21.2	17.0	17.0	17.0	12.7	8.5	6.4	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)