

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: P459402

Luminaire Tested: **GALN-SA8C-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42341 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

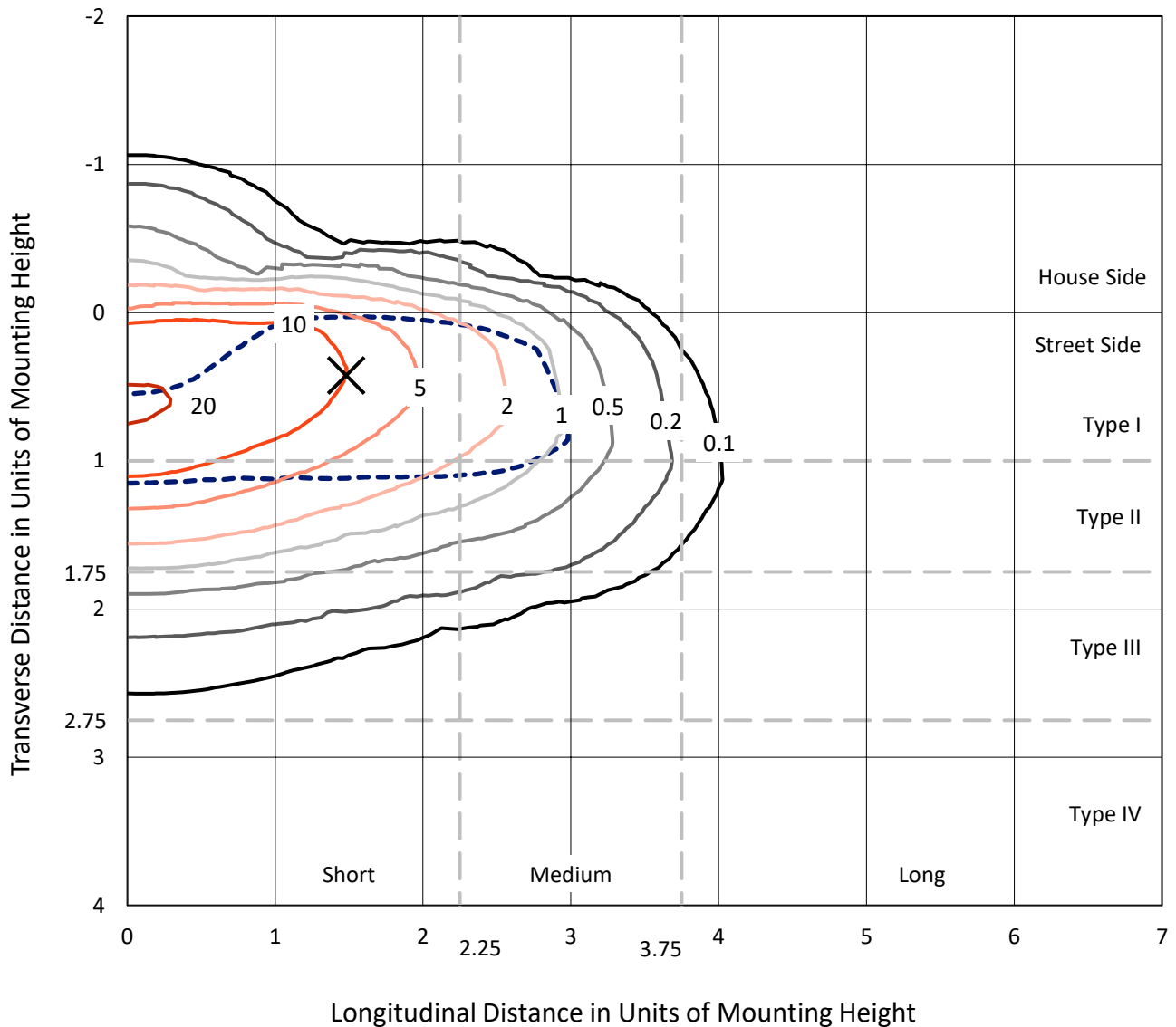
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

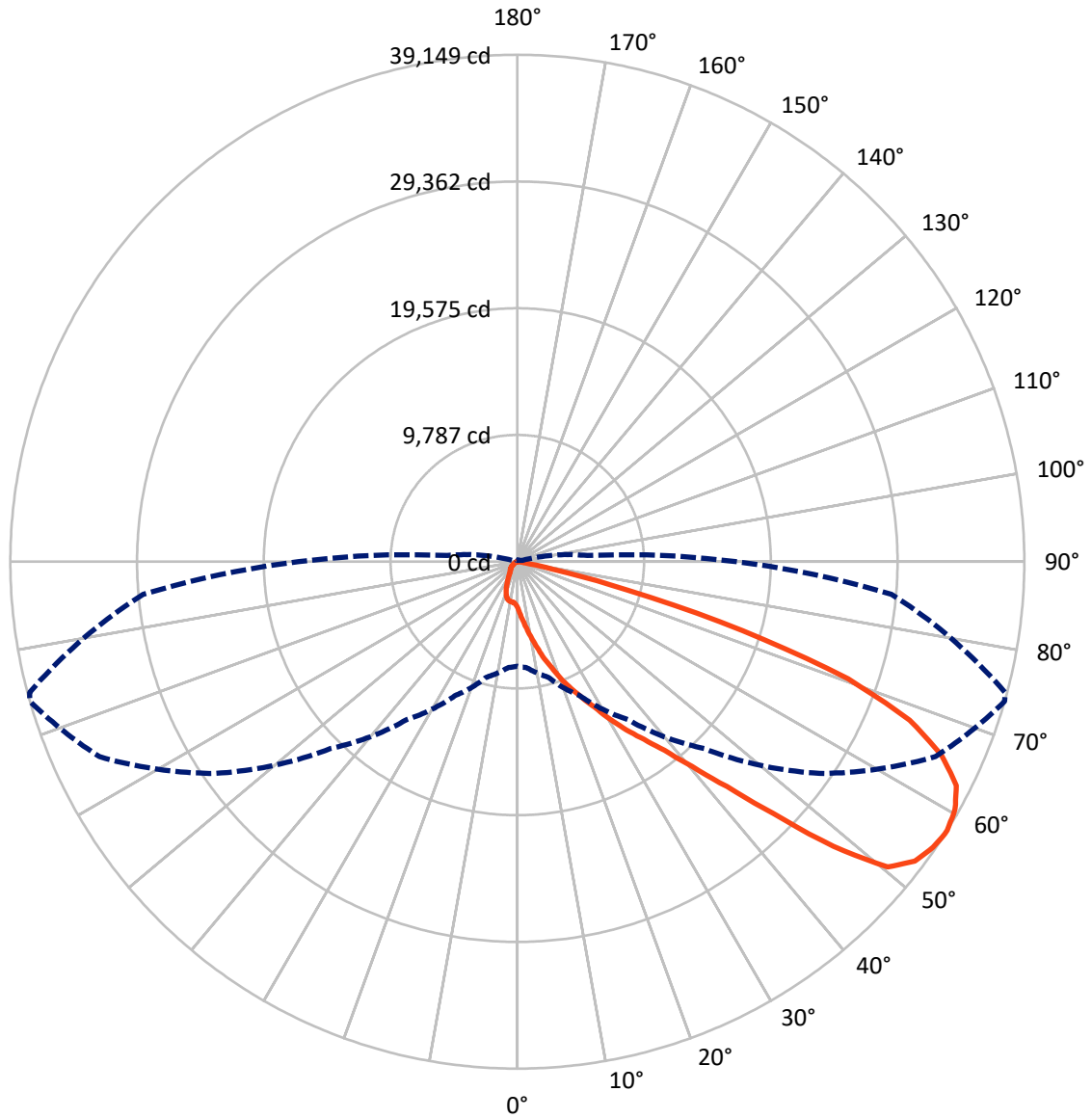
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2442.1	0.0	2442.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	39898.9	0.0	39898.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	42341.0	0.0	42341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.0	1.0
10°-20°	1687.0	4.0
20°-30°	3609.9	8.5
30°-40°	6634.9	15.7
40°-50°	10171.4	24.0
50°-60°	10760.0	25.4
60°-70°	7026.5	16.6
70°-80°	1919.9	4.5
80°-90°	103.4	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°	42341.0	100.0
0°-180°	42341.0	100.0

Coefficient of Utilization



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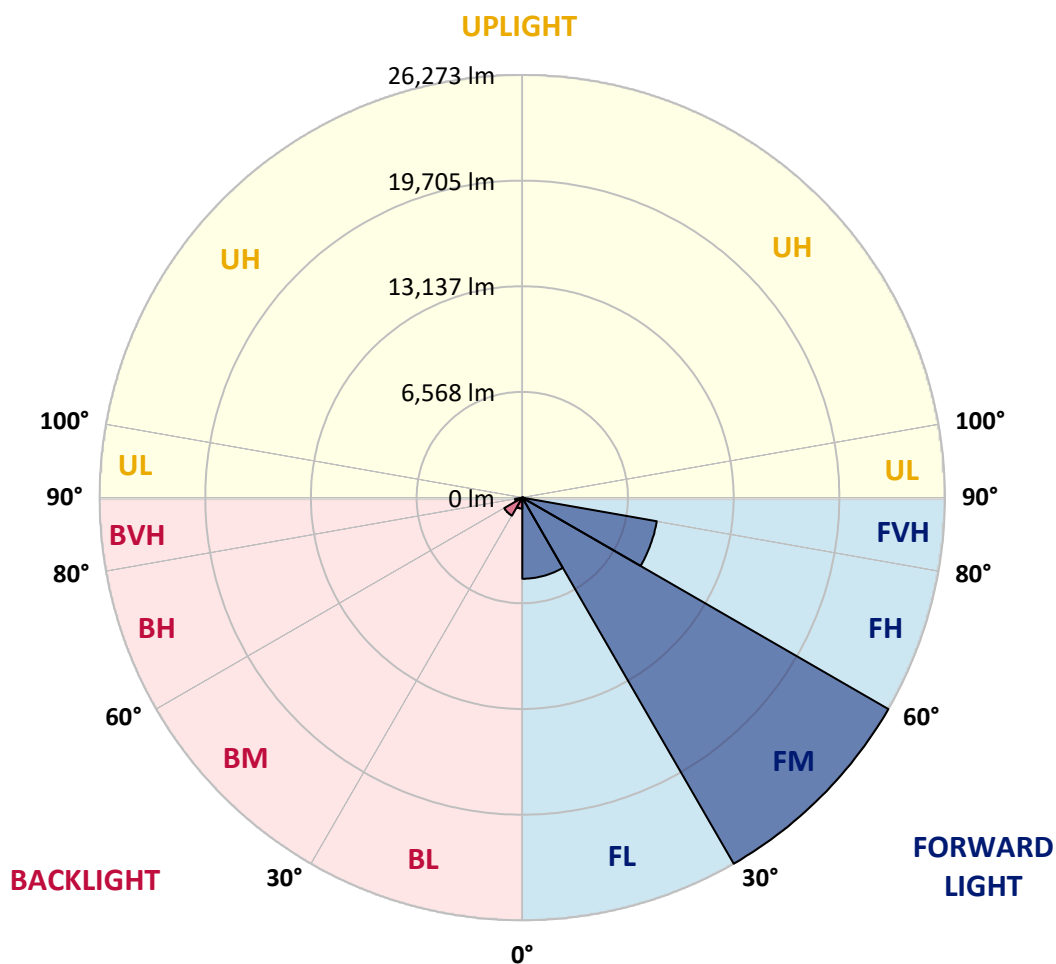
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5042.8	11.9			
FM	(30°-60°)	26273.4	62.1			
FH	(60°-80°)	8488.0	20.0			G4/12000
FVH	(80°-90°)	94.8	0.2			G1/100
BL	(0°-30°)	682.2	1.6	B2/1000		
BM	(30°-60°)	1292.9	3.1	B2/2500		
BH	(60°-80°)	458.5	1.1	B1/500		G1/500
BVH	(80°-90°)	8.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0
2.5°	5188.9	5142.1	5048.6	5016.4	4879.0	4665.6	4478.5	4227.1	4028.4	4007.9	3768.2
5°	6948.8	6843.5	6799.7	6589.2	6258.9	5949.0	5416.9	5013.5	4548.7	4513.6	4031.3
7.5°	8644.3	8498.1	8454.3	8255.5	7869.6	7381.4	6691.5	5957.8	5221.1	5153.8	4385.0
10°	9872.1	9892.6	9813.6	9682.1	9369.3	8872.3	8021.6	7018.9	5969.4	5884.7	4782.6
12.5°	10752.0	10749.1	10763.7	10760.8	10594.2	10217.1	9322.5	8167.8	6793.8	6627.2	5238.6
15°	11325.0	11333.8	11377.6	11529.6	11547.2	11313.3	10567.9	9267.0	7749.8	7542.2	5732.7
17.5°	11903.8	11965.2	12035.4	12178.6	12307.2	12213.7	11687.5	10412.9	8615.1	8460.1	6261.8
20°	12859.7	12944.5	12903.6	12991.3	13058.5	13067.3	12661.0	11471.2	9664.5	9404.4	6866.9
22.5°	14388.6	14385.7	14280.5	14122.6	13991.1	13985.2	13616.9	12558.6	10617.5	10366.1	7475.0
25°	16321.0	16329.7	16125.1	15674.9	15347.5	14947.0	14523.1	13511.6	11637.8	11327.9	8115.2
27.5°	18536.9	18481.3	18171.4	17551.7	16902.7	16218.7	15607.7	14619.6	12719.4	12462.2	8848.9
30°	20527.6	20507.2	20144.7	19387.5	18533.9	17847.0	16961.2	16008.2	14119.7	13804.0	9670.4
32.5°	22381.0	22410.3	21907.5	21124.0	20299.6	19507.4	18571.9	17335.4	15493.7	15046.4	10564.9
35°	23828.1	23857.3	23337.0	22685.1	21837.3	21179.6	20287.9	18750.3	16850.1	16473.0	11593.9
37.5°	24599.9	24637.9	24336.8	23845.6	23316.5	22986.2	22155.9	20571.5	18498.9	18270.8	12810.0
40°	24746.0	24789.9	24658.3	24526.8	24497.5	24734.3	24491.7	22717.2	20784.9	20428.3	14622.5
42.5°	24307.5	24366.0	24424.5	24716.8	25313.1	26181.4	27026.2	25628.9	23728.7	23249.3	16838.4
45°	23155.7	23149.9	23380.8	24138.0	25473.9	27327.3	29674.8	29274.3	27739.5	27169.5	19969.3
47.5°	21185.4	21156.2	21656.1	22734.8	24816.2	27537.8	31835.1	33700.2	32858.3	32332.1	23334.0
50°	18183.1	18326.4	19112.8	20618.3	23182.0	26900.5	32501.6	36603.1	37059.1	36500.7	26052.7
52.5°	14666.4	14660.5	15894.2	17937.6	20761.5	25497.3	32036.8	37129.3	38424.3	37997.5	27391.6
55°	10854.3	10930.3	12213.7	14274.6	17618.9	22936.5	30519.6	36588.4	38944.6	38643.5	28274.5
57°	8074.2	8208.7	9237.7	11418.5	14882.7	20401.9	28499.6	35620.8	39149.3	38985.6	29008.2
57.5°	7536.4	7542.2	8544.9	10526.9	14081.7	19428.5	27920.8	35217.4	39143.4	39052.8	29128.1
60°	4639.3	4785.5	5478.3	7115.4	10307.7	15163.3	24041.5	32899.2	38839.4	38971.0	29639.7
62.5°	2777.2	2838.6	3288.8	4288.5	6644.7	11067.7	19674.0	29932.0	38047.2	38447.7	29604.6
65°	1786.2	1800.8	2005.4	2595.9	4154.1	7480.8	15160.4	26011.8	35997.9	36734.6	28447.0
67.5°	1379.8	1403.2	1485.1	1704.3	2408.8	4659.8	10722.8	21828.5	32682.9	33633.0	25640.6
70°	1224.9	1236.6	1265.8	1336.0	1593.2	2631.0	6671.0	17051.8	27102.2	27371.2	20065.8
72.5°	999.8	1031.9	1122.6	1145.9	1262.9	1642.9	3712.6	11444.9	18209.4	18276.7	11225.6
75°	774.7	780.5	915.0	982.2	1064.1	1131.3	1657.5	5770.7	8746.6	8278.9	4326.5
77.5°	578.8	605.1	666.5	751.3	868.2	809.8	742.5	2175.0	2715.8	2666.1	1257.0
80°	371.3	385.9	464.8	564.2	675.3	529.1	418.0	637.3	596.4	613.9	301.1
82.5°	187.1	190.0	298.2	459.0	429.7	266.0	263.1	260.2	222.2	219.3	140.3
85°	20.5	43.9	192.9	263.1	192.9	87.7	122.8	119.9	116.9	119.9	81.9
87.5°	2.9	2.9	32.2	38.0	26.3	29.2	35.1	38.0	46.8	43.9	35.1
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°	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0	3546.0
2.5°	3651.2	3534.3	3318.0	3110.4	2955.5	2856.1	2727.5	2680.7	2613.5	2604.7	2572.5
5°	3809.1	3586.9	3209.8	2911.6	2671.9	2490.7	2332.8	2201.3	2096.0	2072.6	2084.3
7.5°	4034.2	3703.9	3177.7	2771.3	2438.1	2128.2	1876.8	1721.8	1610.8	1569.8	1575.7
10°	4288.5	3858.8	3171.8	2622.2	2113.6	1733.5	1458.7	1321.3	1257.0	1233.6	1207.3
12.5°	4589.6	4037.1	3157.2	2391.3	1756.9	1382.7	1186.9	1105.0	1043.6	1026.1	1026.1
15°	4928.7	4227.1	3087.0	2104.8	1426.6	1143.0	1011.5	947.2	926.7	909.2	909.2
17.5°	5282.5	4414.2	2940.9	1751.1	1184.0	979.3	897.5	859.5	830.2	809.8	809.8
20°	5685.9	4598.4	2707.0	1438.3	999.8	874.1	809.8	765.9	742.5	725.0	719.1
22.5°	6068.8	4747.5	2408.8	1181.0	871.2	786.4	727.9	681.1	657.8	649.0	649.0
25°	6466.4	4838.1	2049.3	976.4	795.1	713.3	649.0	611.0	590.5	584.7	581.7
27.5°	6852.3	4890.7	1733.5	853.6	725.0	646.1	584.7	555.4	535.0	529.1	532.0
30°	7320.0	4899.5	1426.6	765.9	663.6	581.7	526.2	499.9	488.2	482.4	479.4
32.5°	7793.6	4887.8	1198.6	713.3	605.1	526.2	479.4	459.0	450.2	441.4	441.4
35°	8325.7	4826.4	1020.2	660.7	549.6	479.4	438.5	421.0	409.3	400.5	397.6
37.5°	8986.3	4794.3	917.9	602.2	499.9	435.6	397.6	380.0	371.3	359.6	356.6
40°	10027.0	4937.5	885.8	549.6	450.2	394.7	359.6	339.1	327.4	315.7	312.8
42.5°	11325.0	5188.9	833.2	497.0	406.3	356.6	321.6	298.2	277.7	263.1	257.3
45°	13005.9	5519.3	751.3	441.4	368.3	315.7	283.6	254.3	228.0	216.3	213.4
47.5°	14768.7	5837.9	678.2	397.6	327.4	280.6	245.6	213.4	190.0	181.2	178.3
50°	15850.3	5902.2	631.4	347.9	286.5	242.6	207.6	178.3	163.7	154.9	154.9
52.5°	16344.4	5799.9	567.1	304.0	248.5	213.4	178.3	154.9	146.2	140.3	137.4
55°	16689.3	5642.0	482.4	263.1	213.4	181.2	157.9	140.3	128.6	122.8	119.9
57°	16891.0	5428.6	418.0	230.9	184.2	157.9	140.3	125.7	114.0	102.3	102.3
57.5°	16899.8	5346.8	400.5	228.0	175.4	152.0	137.4	122.8	108.2	96.5	93.5
60°	16639.6	4785.5	321.6	192.9	140.3	128.6	114.0	96.5	76.0	64.3	61.4
62.5°	15803.5	4072.2	266.0	163.7	114.0	99.4	81.9	73.1	52.6	38.0	38.0
65°	14537.7	3303.4	228.0	131.6	93.5	73.1	55.5	52.6	32.2	17.5	14.6
67.5°	12707.7	2572.5	192.9	108.2	78.9	52.6	38.0	35.1	17.5	5.8	0.0
70°	9682.1	1754.0	160.8	87.7	58.5	38.0	26.3	20.5	11.7	2.9	0.0
72.5°	5580.6	964.7	134.5	67.2	43.9	29.2	20.5	11.7	11.7	0.0	0.0
75°	1993.7	415.1	102.3	49.7	35.1	23.4	14.6	5.8	8.8	2.9	0.0
77.5°	634.4	222.2	67.2	38.0	29.2	17.5	11.7	5.8	5.8	2.9	0.0
80°	187.1	116.9	40.9	32.2	20.5	14.6	8.8	2.9	5.8	2.9	0.0
82.5°	102.3	58.5	32.2	23.4	20.5	11.7	8.8	2.9	2.9	2.9	0.0
85°	52.6	35.1	26.3	23.4	20.5	11.7	8.8	2.9	0.0	2.9	2.9
87.5°	29.2	26.3	26.3	23.4	20.5	14.6	8.8	2.9	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)