

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: P458987

Luminaire Tested: **GALN-SA5A-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458987
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-SA5A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 17549 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

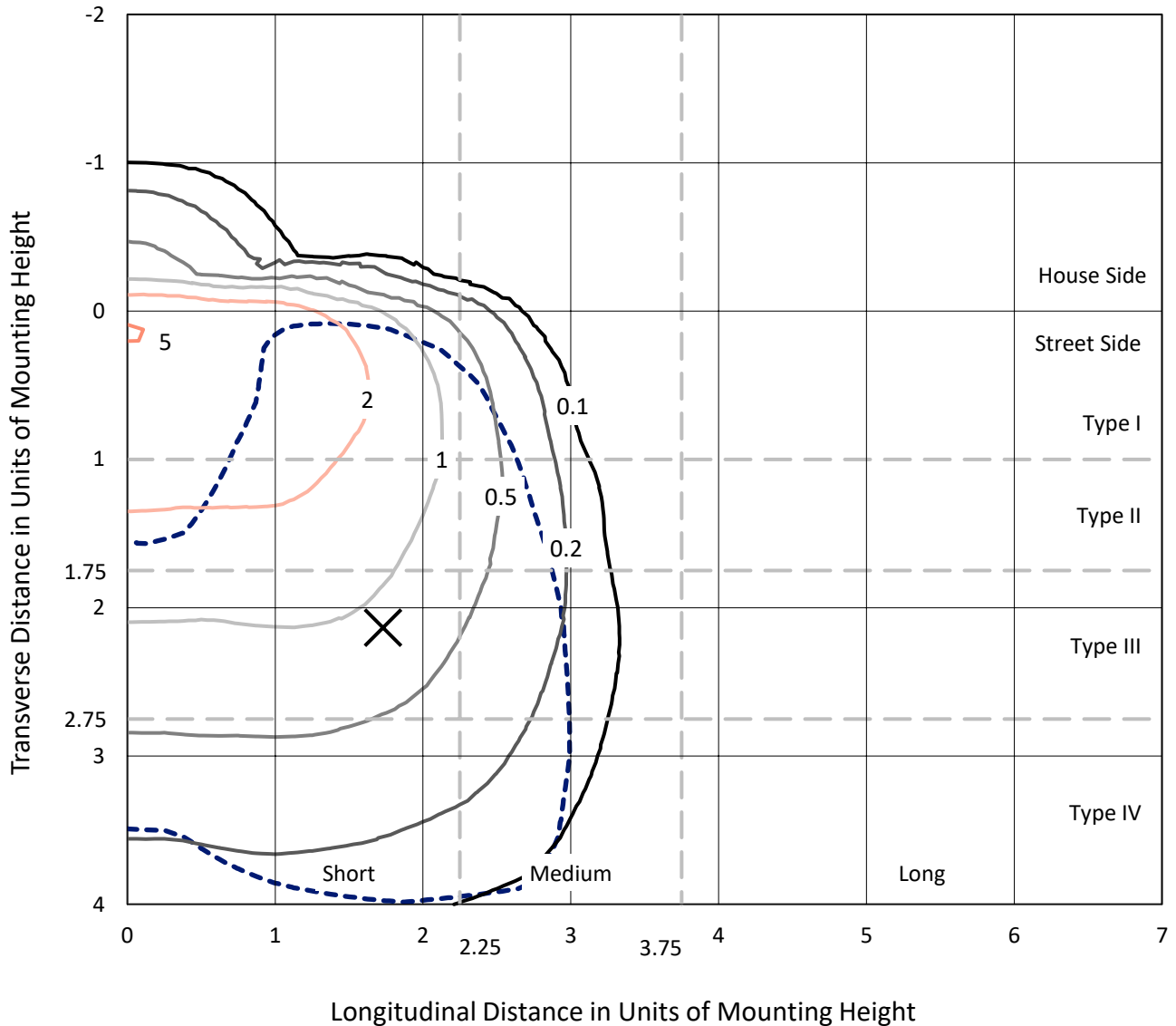
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

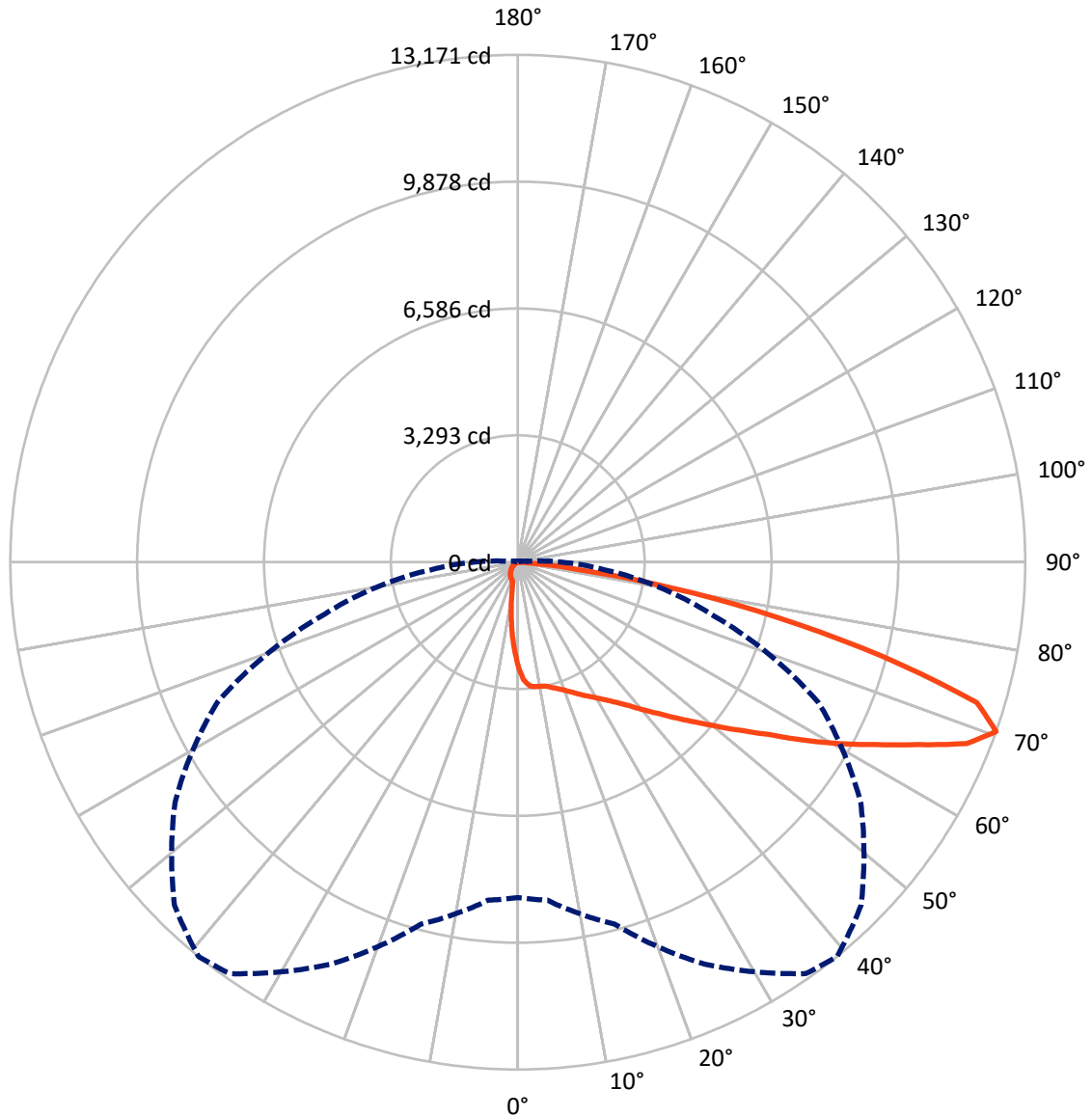
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	1144.3	0.0	1144.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	16404.7	0.0	16404.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	17549.0	0.0	17549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	1.3
10°-20°	606.9	3.5
20°-30°	1016.8	5.8
30°-40°	1576.9	9.0
40°-50°	2498.9	14.2
50°-60°	3663.1	20.9
60°-70°	4695.2	26.8
70°-80°	2950.3	16.8
80°-90°	307.4	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°	17549.0	100.0
0°-180°	17549.0	100.0

Coefficient of Utilization



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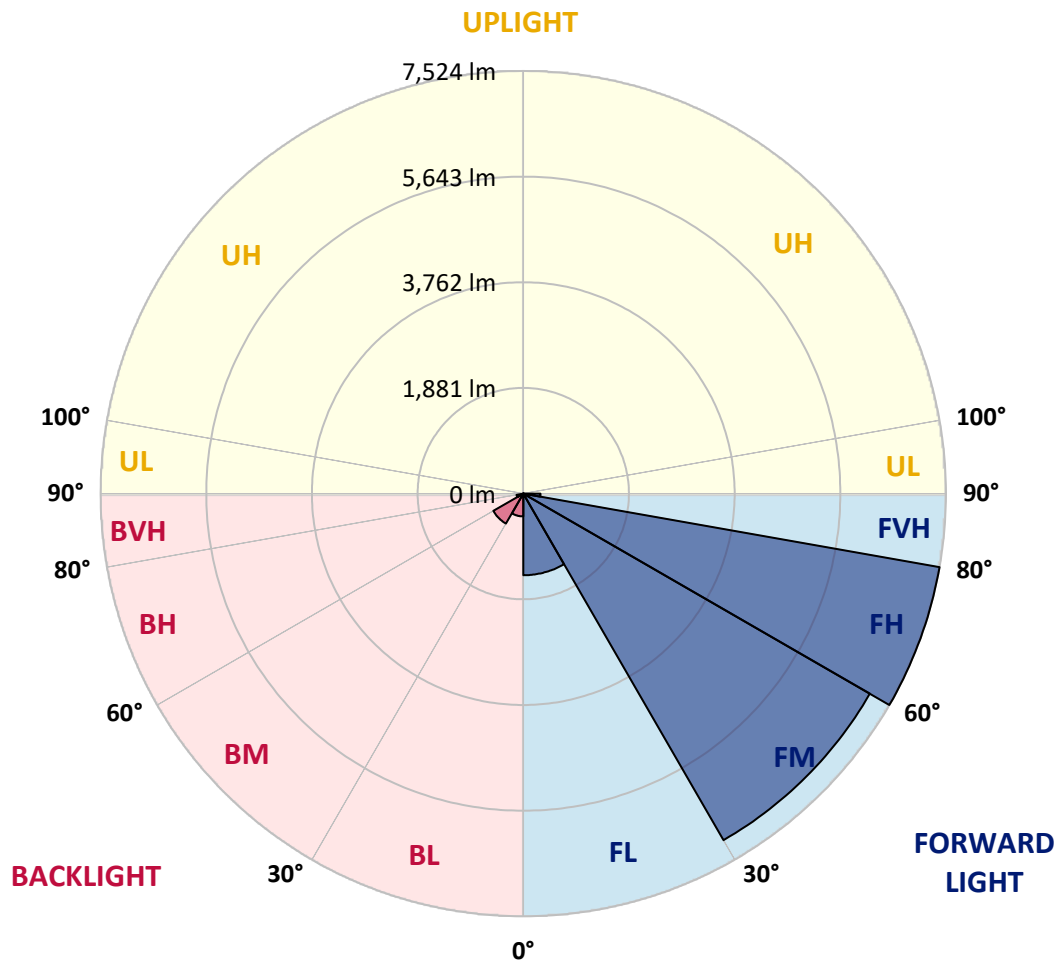
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.1	8.3			
FM (30°-60°)	7123.1	40.6			
FH (60°-80°)	7524.4	42.9			G4/12000
FVH (80°-90°)	305.1	1.7			G3/500
BL (0°-30°)	405.2	2.3	B1/500		
BM (30°-60°)	615.8	3.5	B1/1000		
BH (60°-80°)	121.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2
2.5°	3164.0	3153.3	3139.2	3122.7	3075.5	3067.3	3039.0	2978.8	2906.9	2847.9	2766.5
5°	3313.7	3319.6	3309.0	3279.5	3245.3	3225.3	3189.9	3096.7	3003.6	2884.5	2751.2
7.5°	3347.9	3359.7	3346.7	3318.4	3285.4	3264.2	3235.9	3155.7	3047.2	2911.6	2728.8
10°	3344.4	3358.5	3350.3	3324.3	3297.2	3277.2	3246.5	3182.8	3095.6	2952.9	2735.9
12.5°	3338.5	3357.4	3356.2	3343.2	3320.8	3305.5	3286.6	3230.0	3148.6	3013.0	2774.8
15°	3322.0	3345.6	3366.8	3377.4	3378.6	3378.6	3355.0	3294.9	3217.0	3092.0	2825.5
17.5°	3329.1	3356.2	3409.2	3439.9	3461.1	3458.8	3434.0	3369.2	3283.1	3173.4	2878.6
20°	3372.7	3409.2	3483.5	3544.9	3566.1	3559.0	3526.0	3450.5	3352.6	3243.0	2930.5
22.5°	3480.0	3513.0	3606.2	3678.1	3693.4	3674.6	3627.4	3524.8	3436.4	3318.4	2993.0
25°	3640.4	3679.3	3765.4	3819.6	3819.6	3809.0	3743.0	3622.7	3530.7	3423.4	3074.3
27.5°	3835.0	3868.0	3952.9	4001.2	3972.9	3942.3	3876.2	3731.2	3642.7	3555.5	3172.2
30°	4031.9	4053.1	4142.7	4164.0	4134.5	4095.6	4024.8	3879.8	3801.9	3734.7	3313.7
32.5°	4218.2	4264.2	4338.5	4333.8	4293.7	4274.8	4210.0	4055.5	4011.8	4004.8	3511.8
35°	4404.5	4439.9	4506.0	4522.5	4487.1	4483.6	4436.4	4322.0	4323.2	4369.2	3820.8
37.5°	4564.9	4596.8	4674.6	4711.2	4718.2	4735.9	4717.0	4641.6	4748.9	4875.1	4230.0
40°	4699.4	4744.2	4843.2	4906.9	4980.0	5044.9	5048.4	5064.9	5280.7	5497.7	4764.2
42.5°	4804.3	4866.8	5010.7	5128.6	5296.1	5378.6	5444.7	5535.5	5898.7	6223.0	5393.9
45°	4941.1	5013.0	5192.3	5377.4	5639.2	5774.8	5866.8	6109.8	6625.1	7067.3	6040.2
47.5°	5167.5	5205.3	5388.0	5658.1	6002.4	6195.8	6375.1	6743.0	7404.6	7800.8	6577.9
50°	5458.8	5483.6	5621.5	5996.5	6442.3	6697.0	7023.7	7456.5	8213.6	8409.3	6882.2
52.5°	5780.7	5789.0	5892.8	6369.2	6935.2	7256.0	7621.6	8155.8	8872.8	8843.3	7083.8
55°	6154.6	6142.8	6231.2	6773.7	7519.0	7885.7	8311.4	8871.6	9444.7	9151.1	7199.4
57.5°	6582.6	6550.8	6636.9	7310.2	8266.6	8705.3	9138.1	9489.5	9888.1	9409.3	7254.8
60°	7030.8	6967.1	7069.7	7912.8	9147.5	9563.8	9923.5	10017.8	10355.1	9614.5	7159.3
62.5°	7388.1	7389.3	7580.3	8554.4	10053.2	10417.6	10608.6	10693.5	10757.2	9569.7	6656.9
65°	7945.9	7964.7	8270.2	9444.7	11101.6	11417.6	11548.5	11272.6	10774.9	9013.1	5902.2
67.5°	8521.3	8581.5	9140.5	10671.1	12312.7	12567.4	12398.8	11384.6	10293.8	7743.0	4475.3
70°	8708.8	8807.9	9728.9	11515.5	13039.1	13171.2	12600.4	10862.2	8605.1	5177.0	2252.4
72.5°	7980.1	8140.4	9390.5	11207.7	12575.6	12461.3	11273.7	9109.8	5470.6	1965.8	687.5
75°	5627.4	5698.2	7804.4	9297.3	10114.5	9790.2	8575.6	5872.7	2250.0	551.9	235.9
77.5°	2905.7	2871.5	4641.6	6168.7	7213.5	6877.5	5615.6	3040.1	852.6	230.0	146.2
80°	1502.4	1527.1	2008.3	3232.4	4403.4	4051.9	2994.1	1409.2	454.0	127.4	112.0
82.5°	842.0	790.1	1154.5	1411.6	2059.0	1614.4	1148.6	997.7	198.1	76.7	106.1
85°	153.3	160.4	633.3	763.0	714.6	454.0	370.3	666.3	57.8	42.5	74.3
87.5°	2.4	2.4	122.6	219.3	139.2	63.7	116.7	95.5	11.8	16.5	13.0
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°	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2	2738.2
2.5°	2725.3	2680.5	2596.7	2514.2	2409.2	2323.1	2265.4	2205.2	2143.9	2148.6	2162.8
5°	2678.1	2600.3	2435.2	2260.6	2093.2	1942.2	1793.7	1660.4	1606.2	1556.6	1559.0
7.5°	2630.9	2521.3	2279.5	2005.9	1752.4	1495.3	1309.0	1155.7	1074.3	1013.0	995.3
10°	2609.7	2464.7	2136.8	1760.6	1401.0	1120.3	880.9	755.9	659.2	628.5	636.8
12.5°	2619.1	2436.4	2008.3	1538.9	1110.9	780.7	613.2	549.5	528.3	524.8	522.4
15°	2636.8	2416.3	1882.1	1293.7	816.0	580.2	515.3	503.5	501.2	498.8	500.0
17.5°	2660.4	2398.6	1747.7	1063.7	626.2	507.1	488.2	482.3	481.1	481.1	481.1
20°	2684.0	2378.6	1597.9	858.5	522.4	478.8	467.0	463.4	462.3	462.3	461.1
22.5°	2711.1	2360.9	1445.8	674.5	481.1	458.7	448.1	445.8	444.6	443.4	443.4
25°	2750.0	2338.5	1284.2	551.9	455.2	439.9	429.3	426.9	425.7	421.0	422.2
27.5°	2801.9	2322.0	1117.9	476.4	431.6	416.3	409.2	405.7	403.3	399.8	400.9
30°	2872.7	2307.8	941.1	435.1	404.5	391.5	384.4	382.1	379.7	376.2	376.2
32.5°	2995.3	2313.7	754.7	402.1	379.7	364.4	357.3	355.0	352.6	349.1	349.1
35°	3179.3	2347.9	603.8	373.8	350.2	334.9	327.8	327.8	324.3	319.6	318.4
37.5°	3480.0	2435.2	484.7	346.7	321.9	307.8	299.5	297.2	293.6	286.6	285.4
40°	3835.0	2570.8	408.0	319.6	296.0	281.8	274.8	267.7	258.3	251.2	250.0
42.5°	4280.7	2709.9	353.8	292.5	271.2	258.3	250.0	238.2	224.1	214.6	213.4
45°	4745.3	2837.3	317.2	267.7	247.6	237.0	227.6	208.7	191.0	179.2	178.1
47.5°	5092.1	2860.9	287.7	244.1	227.6	217.0	204.0	180.4	156.8	146.2	142.7
50°	5256.0	2746.5	257.1	220.5	207.6	195.8	179.2	152.1	126.2	113.2	110.9
52.5°	5313.8	2548.4	232.3	199.3	187.5	173.4	153.3	122.6	99.1	86.1	84.9
55°	5290.2	2298.4	209.9	179.2	163.9	147.4	127.4	97.9	73.1	62.5	60.1
57.5°	5166.3	1980.0	187.5	159.2	140.3	123.8	101.4	73.1	49.5	40.1	38.9
60°	4832.6	1546.0	165.1	136.8	119.1	101.4	80.2	51.9	30.7	22.4	22.4
62.5°	4268.9	1147.4	143.9	114.4	100.2	81.4	56.6	33.0	16.5	11.8	10.6
65°	3567.3	846.7	120.3	96.7	83.7	63.7	40.1	20.0	8.3	3.5	2.4
67.5°	2489.4	522.4	100.2	79.0	68.4	46.0	24.8	8.3	3.5	0.0	0.0
70°	1130.9	248.8	76.7	60.1	51.9	33.0	13.0	4.7	2.4	0.0	0.0
72.5°	351.4	130.9	54.2	43.6	35.4	21.2	7.1	3.5	2.4	0.0	0.0
75°	162.7	83.7	34.2	23.6	20.0	10.6	4.7	2.4	1.2	0.0	0.0
77.5°	121.5	64.9	20.0	13.0	10.6	7.1	3.5	2.4	1.2	0.0	0.0
80°	106.1	33.0	11.8	8.3	5.9	4.7	2.4	1.2	0.0	0.0	0.0
82.5°	95.5	16.5	7.1	4.7	3.5	2.4	1.2	1.2	0.0	0.0	0.0
85°	51.9	9.4	4.7	3.5	2.4	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	3.5	2.4	2.4	1.2	1.2	1.2	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)