

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: P651884

Luminaire Tested: **GALN-SA5A-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651884
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-SA5A-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 15780.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

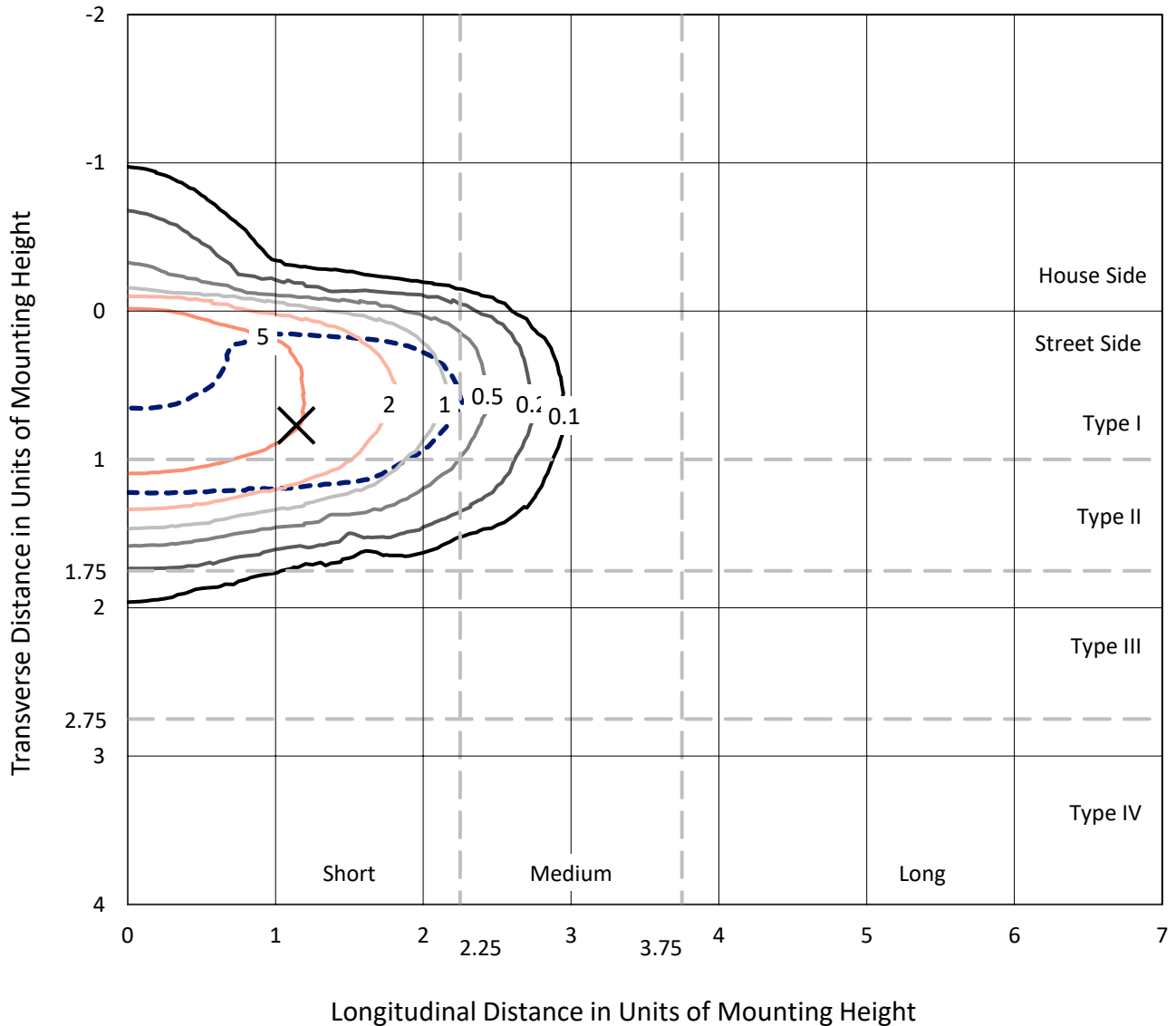
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

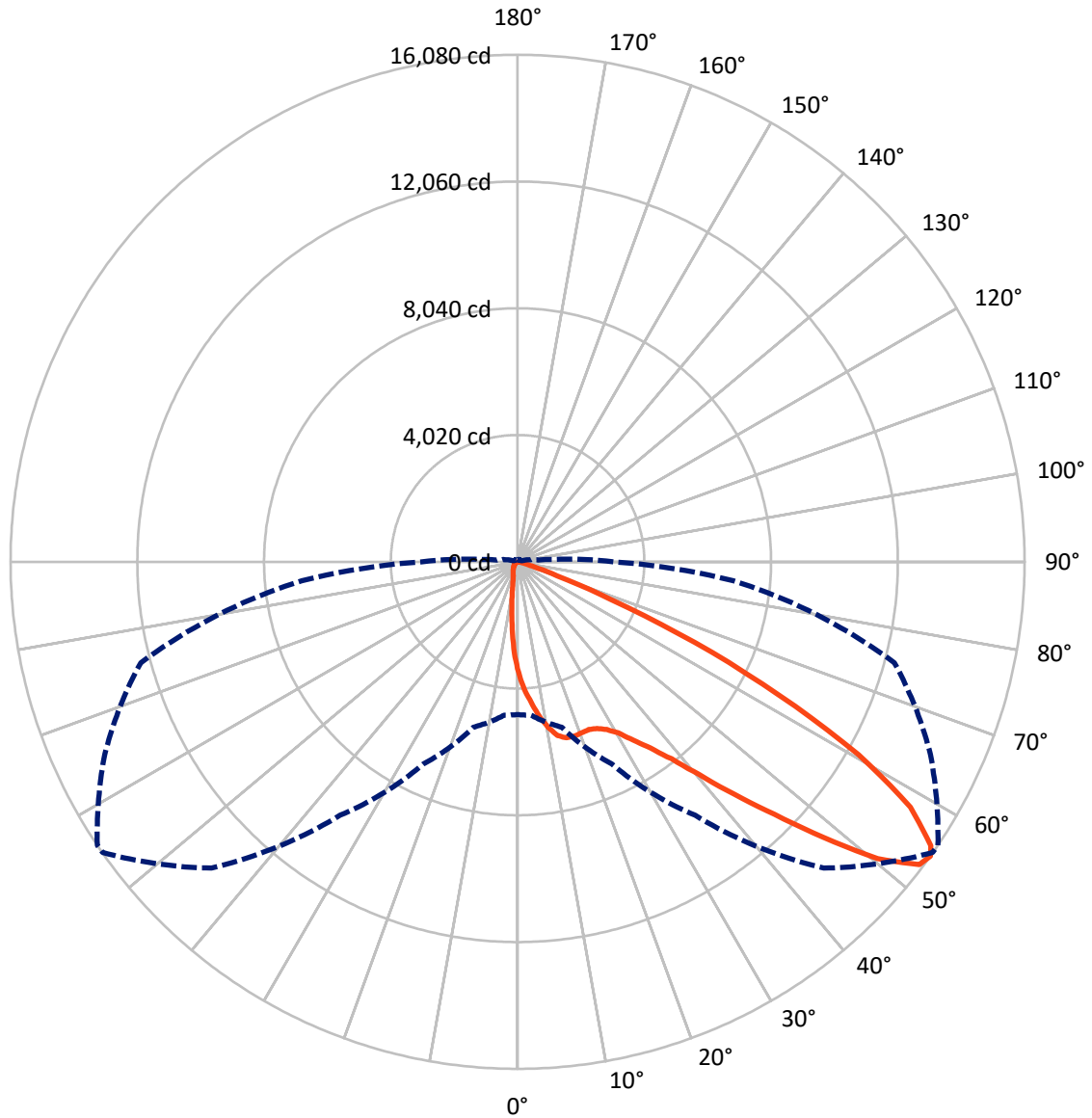
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	746.2	0.0	746.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	15034.3	0.0	15034.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	15780.5	0.0	15780.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	2.0
10°-20°	837.5	5.3
20°-30°	1450.5	9.2
30°-40°	2503.8	15.9
40°-50°	4261.6	27.0
50°-60°	4217.4	26.7
60°-70°	1924.9	12.2
70°-80°	247.2	1.6
80°-90°	27.9	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°	15780.5	100.0
0°-180°	15780.5	100.0

Coefficient of Utilization

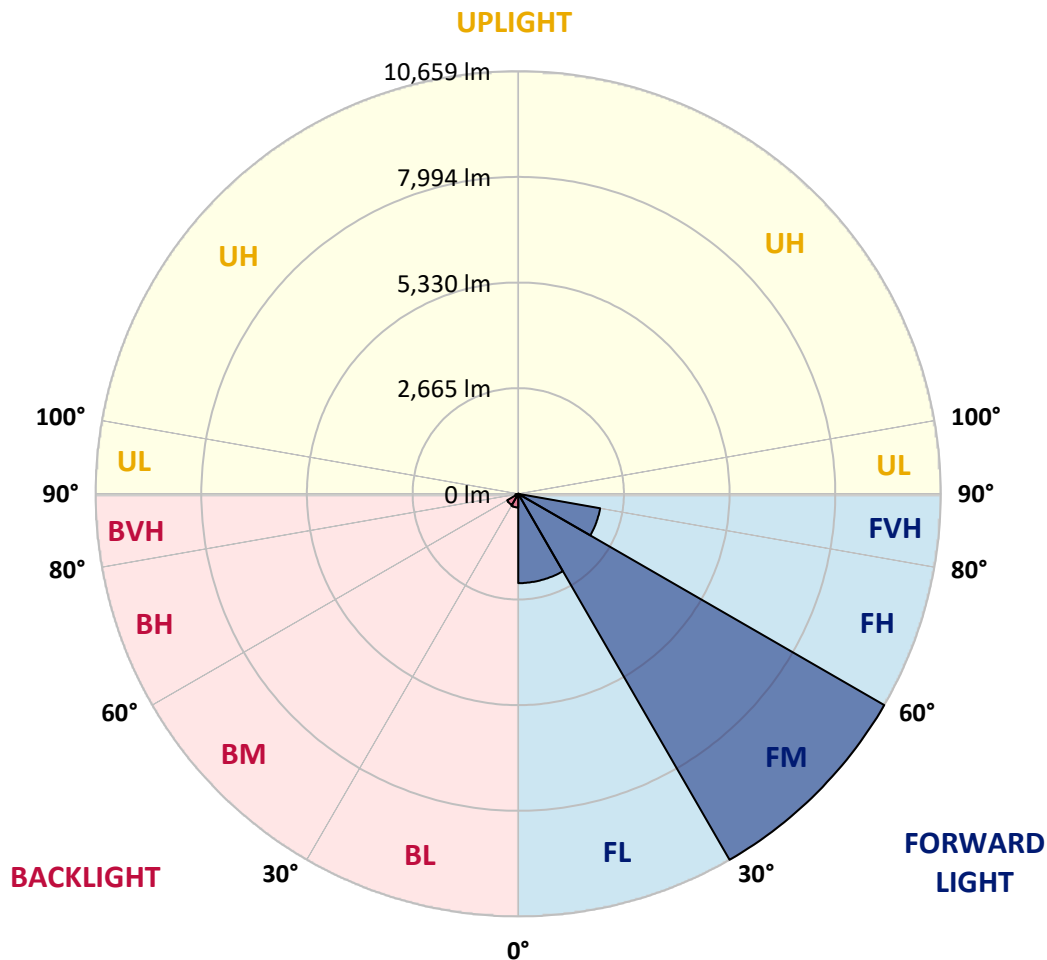


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2252.7	14.3			
FM (30°-60°)	10659.3	67.5			
FH (60°-80°)	2097.4	13.3			G2/5000
FVH (80°-90°)	24.9	0.2			G1/100
BL (0°-30°)	345.1	2.2	B1/500		
BM (30°-60°)	323.4	2.0	B1/1000		
BH (60°-80°)	74.7	0.5	B0/110		G0/110
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0
2.5°	4455.7	4424.8	4382.2	4349.2	4271.4	4159.7	4041.5	4041.5	3927.6	3768.9	3607.1
5°	5139.2	5119.0	5077.5	4992.3	4905.0	4748.5	4511.0	4469.5	4266.1	3978.7	3676.3
7.5°	5417.0	5426.6	5428.8	5406.5	5364.9	5210.5	4975.3	4946.5	4621.8	4236.4	3766.8
10°	5150.9	5197.7	5243.6	5336.1	5467.1	5504.3	5371.3	5341.4	5022.1	4497.2	3864.8
12.5°	4754.8	4780.4	4806.0	4951.8	5214.8	5516.1	5655.6	5654.5	5384.1	4756.9	3989.4
15°	4570.7	4593.0	4595.1	4660.1	4887.9	5326.6	5776.9	5792.9	5737.6	5077.5	4123.5
17.5°	4609.0	4627.1	4612.2	4628.1	4747.4	5117.9	5763.1	5816.4	6023.9	5385.1	4244.9
20°	4859.2	4894.3	4836.8	4792.1	4828.3	5062.6	5716.3	5790.8	6226.3	5685.4	4355.6
22.5°	5308.5	5327.7	5255.2	5132.8	5069.0	5178.6	5703.5	5776.9	6398.7	5931.3	4419.5
25°	5807.8	5801.4	5721.6	5584.2	5450.1	5412.8	5787.6	5853.6	6541.4	6152.8	4438.6
27.5°	6307.2	6326.3	6192.2	6021.8	5861.0	5764.1	5976.1	6025.0	6702.1	6405.1	4462.1
30°	6887.4	6856.5	6724.5	6529.7	6345.4	6210.3	6279.5	6293.3	6923.6	6739.4	4523.8
32.5°	7642.3	7557.1	7409.0	7068.4	6936.4	6707.5	6724.5	6741.5	7193.0	7070.5	4598.3
35°	8666.5	8662.2	8372.6	7913.7	7592.2	7308.0	7233.4	7247.2	7600.7	7562.4	4763.3
37.5°	9899.3	9916.4	9586.3	9124.3	8532.3	8080.9	7927.6	7929.7	8220.4	8241.6	5014.6
40°	10903.3	10948.1	10751.1	10439.2	9854.7	9148.7	8891.1	8867.7	9091.3	9064.6	5373.4
42.5°	11335.6	11377.1	11450.6	11559.2	11237.7	10655.3	10047.3	10079.3	10147.4	9961.1	5775.9
45°	11123.7	11189.8	11478.3	12149.0	12451.4	12255.5	11530.4	11418.7	11130.1	10935.3	6180.4
47.5°	10241.1	10401.9	10884.2	12001.1	13059.3	13721.6	13204.1	13056.1	12113.8	11646.5	6438.1
50°	8790.0	8799.6	9471.3	10899.1	12744.2	14646.8	14912.9	14802.2	13030.5	12045.7	6568.0
52.5°	6372.1	6581.8	7197.2	8850.7	11379.2	14506.2	16002.0	15956.3	13976.0	12250.2	6755.3
54°	4844.2	4884.7	5432.0	7072.6	9811.0	13734.3	16069.2	16079.8	14445.5	12373.6	6866.1
55°	3971.2	3874.3	4449.3	6025.0	8741.0	13051.9	15849.8	15901.0	14656.4	12437.5	6948.1
57.5°	1882.3	1883.4	2323.1	3178.1	5474.6	10134.6	14509.4	14690.4	14679.7	12547.2	7200.4
60°	952.9	959.2	1056.1	1467.1	2704.3	6737.3	11996.8	12428.0	13550.1	12563.2	7283.5
62.5°	666.5	659.0	643.0	705.9	1138.1	3424.0	8931.6	9306.3	11512.4	11955.2	7019.4
65°	570.7	554.7	510.0	500.4	574.9	1363.8	5563.0	6174.0	8790.0	10351.9	6267.7
67.5°	487.6	481.2	440.8	416.3	406.7	594.1	2870.3	3191.9	6007.9	7441.0	4747.4
70°	414.2	411.0	386.4	355.6	329.0	355.6	1064.7	1319.1	3348.4	4006.4	2240.1
72.5°	336.4	339.6	343.9	304.5	276.9	252.3	454.6	529.2	1401.1	1432.0	783.6
75°	294.9	291.7	291.7	265.1	231.0	187.4	250.2	269.4	429.1	398.2	182.1
77.5°	207.6	200.2	234.2	218.2	192.7	133.0	142.6	151.2	177.8	152.2	85.2
80°	143.7	143.7	150.1	195.9	173.6	96.9	87.3	93.7	105.4	90.5	48.9
82.5°	80.9	83.0	98.0	104.4	101.2	64.9	57.5	58.5	70.3	61.7	30.9
85°	9.6	16.0	56.4	55.3	41.5	28.8	32.0	33.0	43.6	38.3	18.1
87.5°	1.1	2.1	11.7	14.9	10.7	11.7	11.7	11.7	14.9	17.1	12.8
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°	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0	3506.0
2.5°	3519.8	3438.9	3246.2	3022.6	2879.9	2647.9	2451.9	2310.3	2275.2	2207.0	2227.3
5°	3515.5	3347.3	2954.5	2539.2	2096.4	1766.3	1520.4	1326.6	1241.4	1185.0	1145.6
7.5°	3517.7	3254.8	2624.4	1963.2	1434.2	1110.5	882.6	764.5	685.7	652.6	656.9
10°	3524.0	3150.4	2241.2	1454.3	967.8	717.6	578.1	521.7	495.1	490.8	489.7
12.5°	3539.0	3036.4	1874.9	1079.6	677.2	521.7	468.4	449.3	440.8	440.8	437.6
15°	3555.0	2910.8	1570.4	802.7	521.7	448.3	423.8	414.2	408.8	408.8	407.8
17.5°	3555.0	2766.0	1286.1	622.8	449.3	412.0	392.8	380.0	375.8	375.8	374.7
20°	3532.6	2597.8	1033.8	501.5	407.8	377.9	358.8	345.0	339.6	337.5	336.4
22.5°	3454.9	2373.1	823.0	431.2	373.7	348.2	323.7	307.7	303.4	301.3	302.3
25°	3316.5	2119.7	651.6	379.0	342.8	311.9	290.6	279.0	274.7	274.7	275.8
27.5°	3173.8	1854.7	516.4	339.6	305.5	277.9	260.9	253.4	252.3	255.5	256.6
30°	3041.8	1588.5	418.4	307.7	272.6	249.1	237.4	235.3	235.3	236.3	237.4
32.5°	2894.9	1355.4	350.3	280.0	245.9	225.7	219.3	219.3	221.4	221.4	223.6
35°	2802.2	1155.2	307.7	253.4	225.7	208.7	204.4	205.5	208.7	212.9	215.0
37.5°	2752.2	995.5	280.0	232.1	206.5	194.9	190.6	192.7	200.2	207.6	208.7
40°	2756.5	875.1	257.7	214.0	191.7	178.9	175.7	182.1	189.5	197.0	198.1
42.5°	2803.3	785.7	236.3	192.7	178.9	160.8	159.7	166.1	169.3	176.8	177.8
45°	2858.6	720.8	214.0	170.4	155.4	139.4	140.5	145.8	150.1	161.8	164.0
47.5°	2875.7	676.1	188.5	144.8	127.7	122.4	123.5	126.7	135.2	145.8	146.9
50°	2894.9	648.4	164.0	122.4	108.6	107.6	108.6	110.8	116.1	120.3	119.3
52.5°	2976.8	647.3	143.7	106.5	92.6	94.8	95.8	94.8	90.5	84.1	82.0
54°	3053.5	650.5	134.1	99.0	85.2	88.4	87.3	82.0	71.3	64.9	61.7
55°	3115.2	653.7	128.8	93.7	80.9	82.0	83.0	72.4	58.5	52.1	50.0
57.5°	3236.6	646.2	116.1	82.0	71.3	67.1	66.0	47.9	32.0	27.7	25.6
60°	3176.0	583.4	105.4	70.3	60.7	54.3	44.7	26.6	16.0	11.7	11.7
62.5°	2937.4	495.1	93.7	57.5	50.0	41.5	23.5	14.9	7.5	4.3	3.2
65°	2627.6	416.3	84.1	45.8	39.4	26.6	12.8	9.6	3.2	0.0	0.0
67.5°	1953.6	308.7	71.3	36.2	29.8	17.1	8.5	5.3	1.1	0.0	0.0
70°	905.0	188.5	60.7	27.7	21.3	12.8	6.4	3.2	0.0	0.0	0.0
72.5°	259.8	118.2	50.0	20.3	14.9	10.7	5.3	2.1	1.1	0.0	0.0
75°	90.5	94.8	37.3	14.9	11.7	7.5	4.3	2.1	1.1	0.0	0.0
77.5°	54.3	76.6	23.5	12.8	9.6	6.4	4.3	2.1	1.1	1.1	0.0
80°	30.9	51.1	14.9	10.7	8.5	5.3	3.2	2.1	1.1	1.1	0.0
82.5°	17.1	24.5	11.7	9.6	7.5	5.3	3.2	2.1	1.1	1.1	1.1
85°	13.9	12.8	9.6	8.5	6.4	4.3	3.2	1.1	0.0	0.0	0.0
87.5°	10.7	8.5	8.5	8.5	6.4	4.3	3.2	1.1	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)