

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: P646824

Luminaire Tested: **GALN-SA3C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646824
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-SA3C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA 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: 13463.7 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

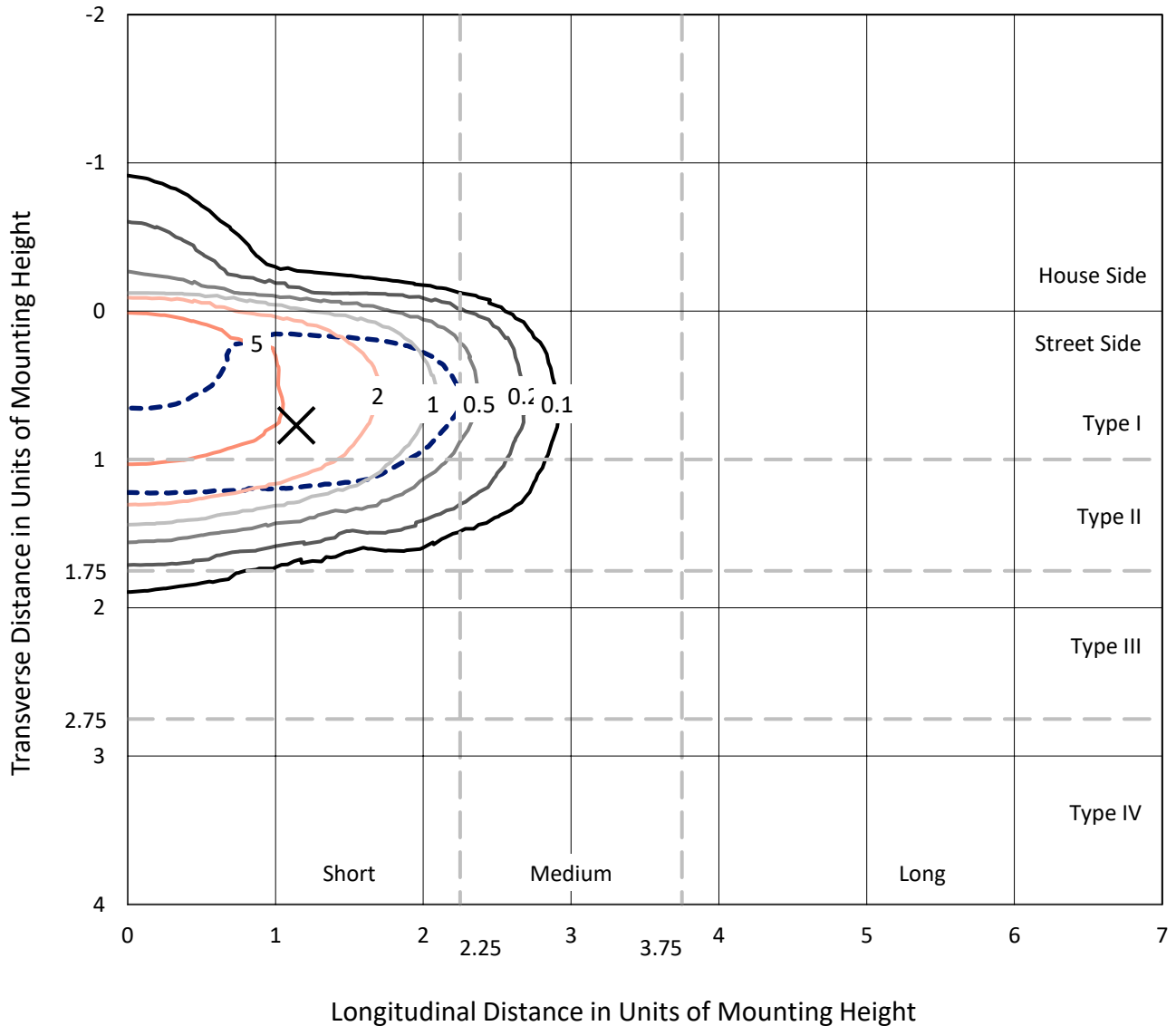
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

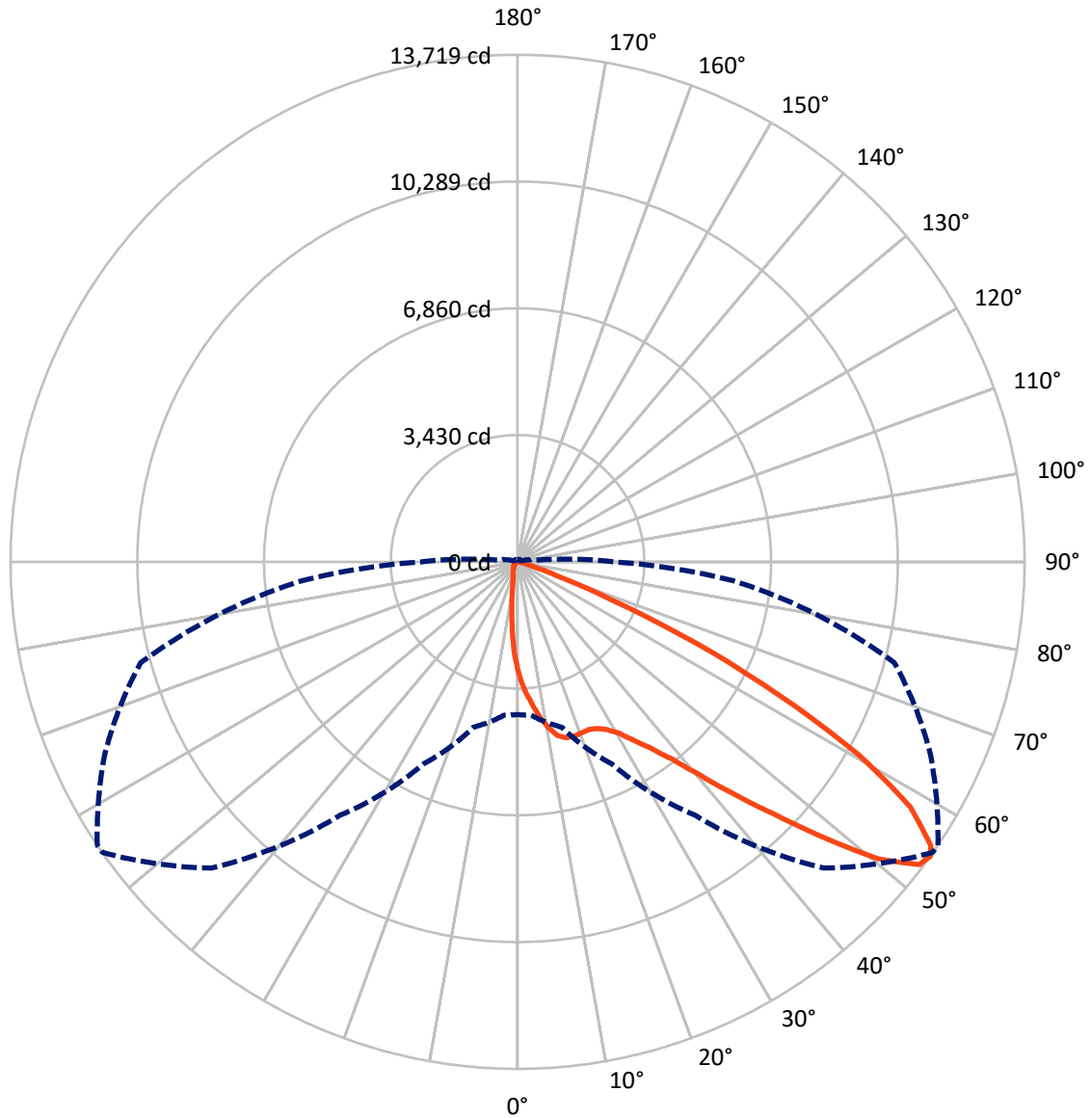
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	636.6	0.0	636.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	12827.0	0.0	12827.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	13463.7	0.0	13463.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	2.0
10°-20°	714.6	5.3
20°-30°	1237.6	9.2
30°-40°	2136.2	15.9
40°-50°	3635.9	27.0
50°-60°	3598.2	26.7
60°-70°	1642.3	12.2
70°-80°	210.9	1.6
80°-90°	23.8	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°	13463.7	100.0
0°-180°	13463.7	100.0

Coefficient of Utilization



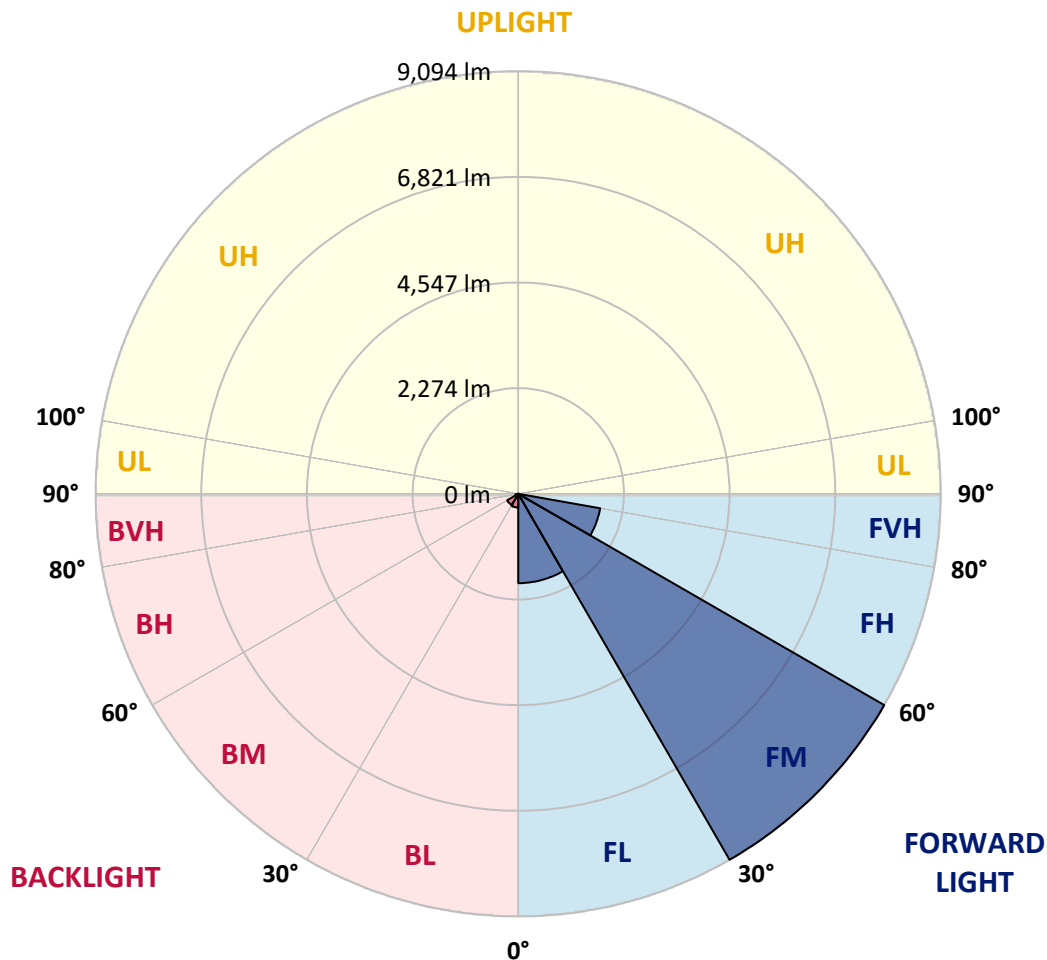
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.0	14.3			
FM (30°-60°)	9094.4	67.5			
FH (60°-80°)	1789.4	13.3			G1/1800
FVH (80°-90°)	21.2	0.2			G1/100
BL (0°-30°)	294.4	2.2	B1/500		
BM (30°-60°)	275.9	2.0	B1/1000		
BH (60°-80°)	63.7	0.5	B0/110		G0/110
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2
2.5°	3801.5	3775.2	3738.8	3710.6	3644.4	3548.9	3448.2	3448.2	3350.9	3215.6	3077.5
5°	4384.6	4367.4	4332.0	4259.3	4184.8	4051.3	3848.8	3813.3	3639.9	3394.5	3136.6
7.5°	4621.7	4630.0	4631.8	4612.7	4577.3	4445.6	4244.8	4220.3	3943.2	3614.4	3213.8
10°	4394.7	4434.6	4473.7	4552.8	4664.5	4696.3	4582.7	4557.3	4284.7	3836.9	3297.4
12.5°	4056.7	4078.6	4100.3	4224.8	4449.2	4706.2	4825.2	4824.3	4593.6	4058.6	3403.6
15°	3899.6	3918.7	3920.5	3975.9	4170.3	4544.5	4928.8	4942.4	4895.2	4332.0	3518.1
17.5°	3932.3	3947.7	3935.0	3948.7	4050.4	4366.5	4917.0	4962.4	5139.5	4594.5	3621.6
20°	4145.8	4175.7	4126.7	4088.5	4119.4	4319.3	4877.0	4940.6	5312.1	4850.7	3716.1
22.5°	4529.1	4545.5	4483.7	4379.2	4324.7	4418.3	4866.1	4928.8	5459.2	5060.5	3770.6
25°	4955.1	4949.7	4881.5	4764.4	4649.9	4618.1	4937.8	4994.2	5581.0	5249.5	3787.0
27.5°	5381.2	5397.5	5283.1	5137.7	5000.6	4917.9	5098.7	5140.4	5718.2	5464.7	3806.9
30°	5876.2	5849.9	5737.2	5571.0	5413.8	5298.5	5357.5	5369.3	5907.1	5750.0	3859.6
32.5°	6520.3	6447.5	6321.3	6030.7	5918.0	5722.7	5737.2	5751.8	6136.9	6032.5	3923.2
35°	7394.1	7390.4	7143.4	6751.9	6477.5	6235.0	6171.4	6183.3	6484.8	6452.1	4064.0
37.5°	8446.0	8460.5	8178.9	7784.7	7279.6	6894.5	6763.7	6765.5	7013.5	7031.7	4278.4
40°	9302.6	9340.7	9172.7	8906.5	8407.9	7805.6	7585.8	7565.7	7756.6	7733.8	4584.5
42.5°	9671.4	9706.8	9769.5	9862.1	9587.8	9090.9	8572.2	8599.5	8657.6	8498.7	4927.9
45°	9490.6	9546.9	9793.1	10365.4	10623.4	10456.2	9837.6	9742.2	9496.1	9329.8	5273.0
47.5°	8737.6	8874.8	9286.2	10239.1	11142.0	11707.0	11265.6	11139.3	10335.4	9936.6	5492.9
50°	7499.4	7507.6	8080.8	9298.9	10873.1	12496.4	12723.4	12629.0	11117.5	10277.3	5603.7
52.5°	5436.5	5615.5	6140.5	7551.3	9708.6	12376.5	13652.7	13613.6	11924.1	10451.6	5763.6
54°	4133.1	4167.6	4634.5	6034.3	8370.6	11717.9	13709.9	13719.0	12324.7	10557.0	5858.0
55°	3388.2	3305.5	3796.1	5140.4	7457.7	11135.7	13522.8	13566.4	12504.5	10611.5	5928.0
57.5°	1606.0	1606.9	1982.1	2711.5	4670.8	8646.7	12379.2	12533.6	12524.6	10705.1	6143.3
60°	813.0	818.5	901.1	1251.7	2307.3	5748.2	10235.5	10603.3	11560.8	10718.7	6214.1
62.5°	568.6	562.3	548.6	602.3	971.1	2921.3	7620.2	7940.0	9822.1	10200.0	5988.9
65°	486.9	473.2	435.1	427.0	490.5	1163.6	4746.2	5267.6	7499.4	8832.0	5347.6
67.5°	416.0	410.6	376.1	355.2	347.0	506.8	2449.0	2723.3	5125.9	6348.6	4050.4
70°	353.4	350.6	329.7	303.4	280.7	303.4	908.4	1125.5	2856.8	3418.2	1911.2
72.5°	287.0	289.8	293.4	259.8	236.2	215.2	387.9	451.5	1195.4	1221.7	668.5
75°	251.6	248.9	248.9	226.2	197.1	159.9	213.4	229.8	366.1	339.7	155.3
77.5°	177.1	170.8	199.8	186.2	164.4	113.5	121.8	129.0	151.7	129.9	72.7
80°	122.6	122.6	128.1	167.2	148.1	82.7	74.5	79.9	90.0	77.2	41.8
82.5°	69.1	70.9	83.5	89.0	86.3	55.4	49.0	50.0	60.0	52.7	26.3
85°	8.1	13.6	48.2	47.2	35.4	24.5	27.2	28.2	37.3	32.7	15.4
87.5°	0.9	1.8	10.0	12.7	9.1	10.0	10.0	10.0	12.7	14.6	10.9
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°	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2
2.5°	3003.0	2934.0	2769.6	2578.8	2457.1	2259.1	2091.9	1971.1	1941.2	1883.0	1900.3
5°	2999.4	2855.9	2520.7	2166.5	1788.6	1507.0	1297.1	1131.8	1059.2	1011.0	977.4
7.5°	3001.2	2776.8	2239.1	1675.0	1223.6	947.4	753.0	652.2	585.0	556.8	560.5
10°	3006.7	2687.9	1912.1	1240.8	825.7	612.2	493.2	445.1	422.4	418.7	417.8
12.5°	3019.4	2590.6	1599.6	921.0	577.7	445.1	399.6	383.4	376.1	376.1	373.3
15°	3033.0	2483.4	1339.9	684.9	445.1	382.4	361.5	353.4	348.8	348.8	347.9
17.5°	3033.0	2360.0	1097.3	531.4	383.4	351.6	335.2	324.3	320.6	320.6	319.8
20°	3013.9	2216.4	882.0	427.8	347.9	322.4	306.2	294.3	289.8	288.0	287.0
22.5°	2947.6	2024.8	702.2	367.9	318.8	297.1	276.2	262.5	258.9	257.1	258.0
25°	2829.5	1808.6	555.9	323.4	292.5	266.1	248.0	238.0	234.4	234.4	235.3
27.5°	2707.8	1582.4	440.6	289.8	260.7	237.1	222.5	216.2	215.2	218.0	218.9
30°	2595.2	1355.3	357.0	262.5	232.6	212.6	202.6	200.8	200.8	201.6	202.6
32.5°	2469.8	1156.3	298.9	238.9	209.8	192.5	187.1	187.1	188.9	188.9	190.7
35°	2390.8	985.6	262.5	216.2	192.5	178.1	174.4	175.3	178.1	181.7	183.5
37.5°	2348.1	849.3	238.9	198.0	176.3	166.2	162.6	164.4	170.8	177.1	178.1
40°	2351.7	746.7	219.8	182.6	163.5	152.6	149.9	155.3	161.7	168.0	169.0
42.5°	2391.8	670.4	201.6	164.4	152.6	137.2	136.2	141.7	144.5	150.8	151.7
45°	2439.0	615.0	182.6	145.3	132.6	119.0	119.9	124.4	128.1	138.0	139.9
47.5°	2453.5	576.8	160.7	123.6	109.0	104.5	105.4	108.1	115.3	124.4	125.4
50°	2469.8	553.2	139.9	104.5	92.6	91.8	92.6	94.5	99.0	102.7	101.7
52.5°	2539.8	552.2	122.6	90.8	79.0	80.8	81.7	80.8	77.2	71.7	69.9
54°	2605.2	555.0	114.5	84.5	72.7	75.4	74.5	69.9	60.8	55.4	52.7
55°	2657.9	557.7	109.9	79.9	69.1	69.9	70.9	61.8	50.0	44.5	42.7
57.5°	2761.4	551.4	99.0	69.9	60.8	57.2	56.3	40.9	27.2	23.6	21.8
60°	2709.6	497.8	90.0	60.0	51.8	46.4	38.1	22.7	13.6	10.0	10.0
62.5°	2506.1	422.4	79.9	49.0	42.7	35.4	20.0	12.7	6.3	3.6	2.7
65°	2241.8	355.2	71.7	39.1	33.6	22.7	10.9	8.1	2.7	0.0	0.0
67.5°	1666.9	263.4	60.8	30.9	25.4	14.6	7.3	4.5	0.9	0.0	0.0
70°	772.1	160.7	51.8	23.6	18.2	10.9	5.5	2.7	0.0	0.0	0.0
72.5°	221.7	100.9	42.7	17.2	12.7	9.1	4.5	1.8	0.9	0.0	0.0
75°	77.2	80.8	31.8	12.7	10.0	6.3	3.6	1.8	0.9	0.0	0.0
77.5°	46.4	65.4	20.0	10.9	8.1	5.5	3.6	1.8	0.9	0.9	0.0
80°	26.3	43.6	12.7	9.1	7.3	4.5	2.7	1.8	0.9	0.9	0.0
82.5°	14.6	20.9	10.0	8.1	6.3	4.5	2.7	1.8	0.9	0.9	0.9
85°	11.8	10.9	8.1	7.3	5.5	3.6	2.7	0.9	0.0	0.0	0.0
87.5°	9.1	7.3	7.3	7.3	5.5	3.6	2.7	0.9	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)