

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: P451643

Luminaire Tested: **GALN-SA2C-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451643
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-SA2C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 11583 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

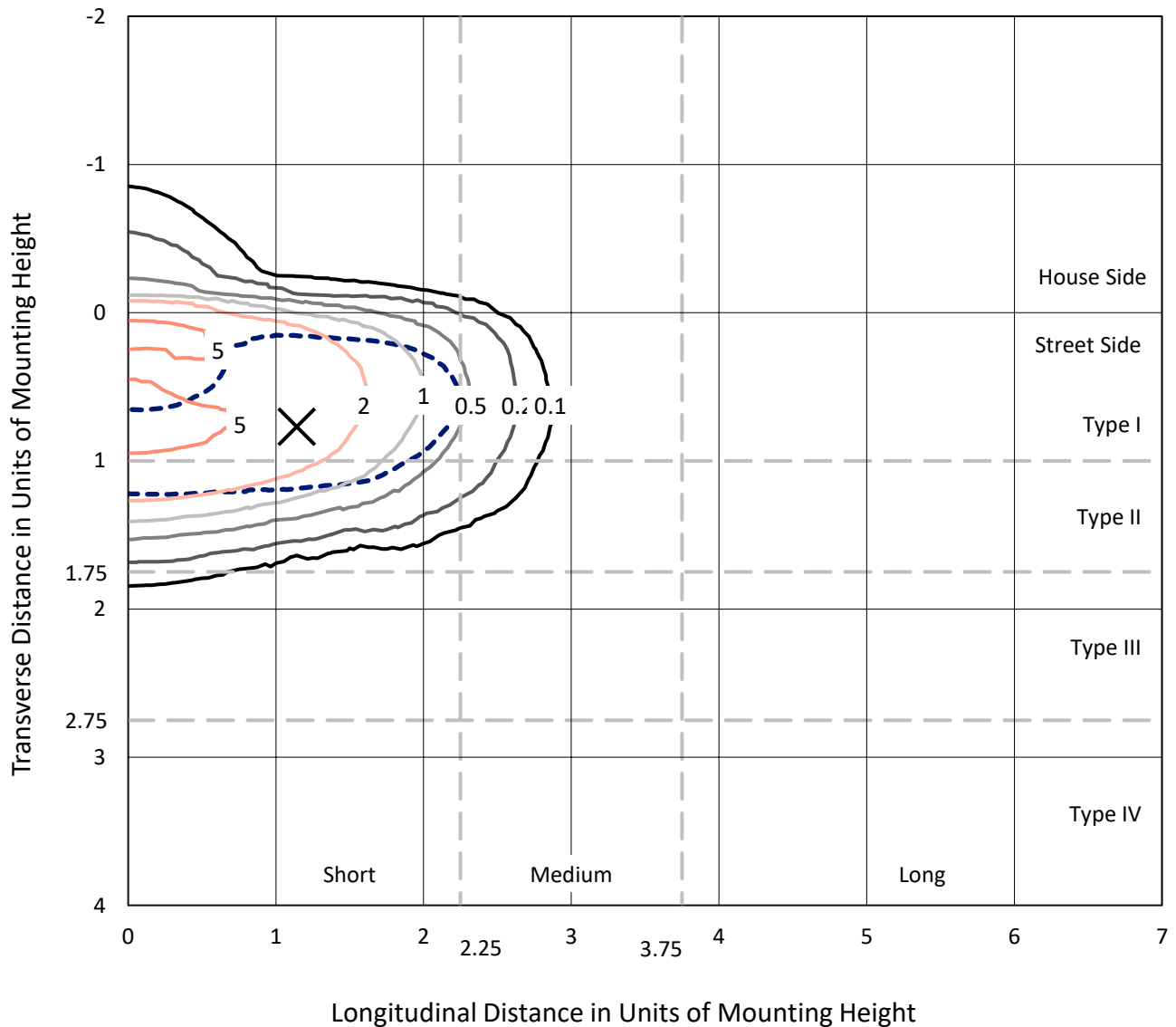
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

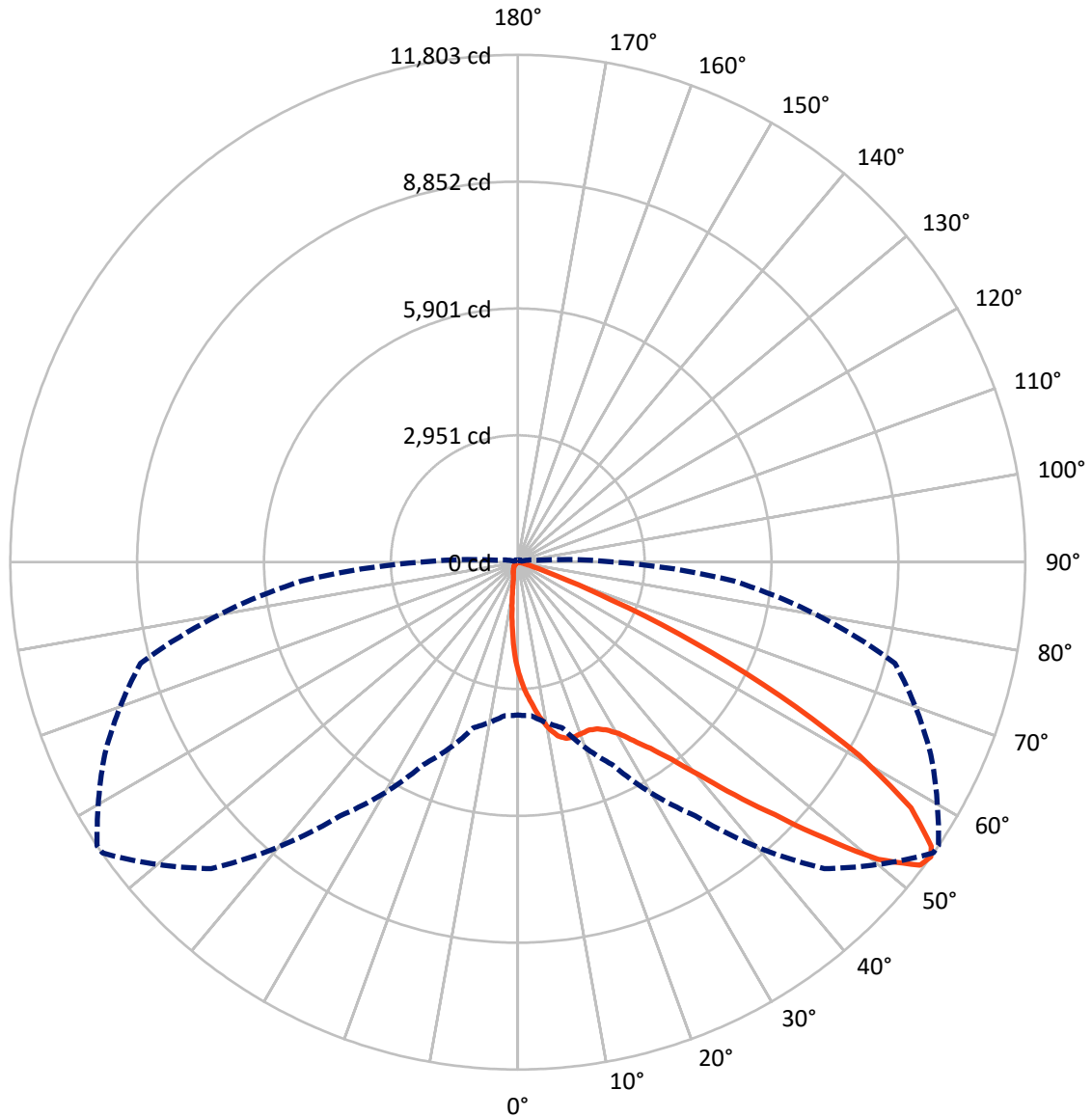
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	547.7	0.0	547.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11035.3	0.0	11035.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	11583.0	0.0	11583.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	2.0
10°-20°	614.7	5.3
20°-30°	1064.7	9.2
30°-40°	1837.8	15.9
40°-50°	3128.0	27.0
50°-60°	3095.6	26.7
60°-70°	1412.9	12.2
70°-80°	181.4	1.6
80°-90°	20.4	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°	11583.0	100.0
0°-180°	11583.0	100.0

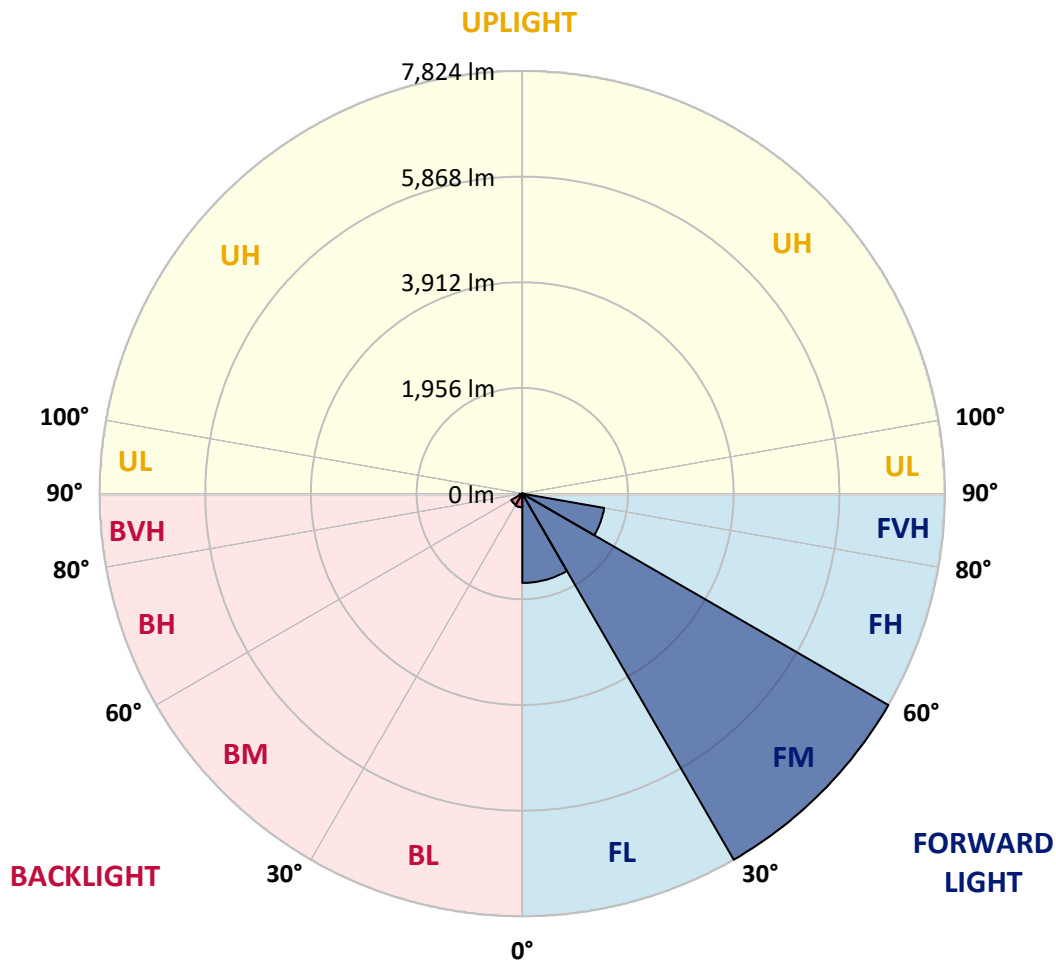


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.5	14.3			
FM (30°-60°)	7824.0	67.5			
FH (60°-80°)	1539.5	13.3			G1/1800
FVH (80°-90°)	18.3	0.2			G1/100
BL (0°-30°)	253.3	2.2	B1/500		
BM (30°-60°)	237.4	2.0	B1/1000		
BH (60°-80°)	54.8	0.5	B0/110		G0/110
BVH (80°-90°)	2.2	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°	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4
2.5°	3270.5	3247.8	3216.6	3192.3	3135.3	3053.2	2966.5	2966.5	2882.9	2766.4	2647.7
5°	3772.2	3757.3	3726.9	3664.4	3600.3	3485.4	3311.1	3280.6	3131.4	2920.4	2698.4
7.5°	3976.2	3983.2	3984.8	3968.3	3937.9	3824.6	3651.9	3630.8	3392.4	3109.5	2764.9
10°	3780.8	3815.2	3848.8	3916.8	4012.9	4040.2	3942.6	3920.7	3686.2	3301.0	2836.8
12.5°	3490.1	3508.8	3527.6	3634.7	3827.7	4048.8	4151.2	4150.4	3951.9	3491.6	2928.2
15°	3354.9	3371.3	3372.9	3420.5	3587.8	3909.7	4240.3	4252.0	4211.4	3726.9	3026.7
17.5°	3383.0	3396.3	3385.4	3397.1	3484.6	3756.6	4230.1	4269.2	4421.6	3952.7	3115.8
20°	3566.7	3592.5	3550.3	3517.4	3544.0	3715.9	4195.8	4250.5	4570.1	4173.1	3197.0
22.5°	3896.5	3910.5	3857.4	3767.5	3720.6	3801.1	4186.4	4240.3	4696.7	4353.6	3243.9
25°	4263.0	4258.3	4199.7	4098.9	4000.4	3973.0	4248.1	4296.6	4801.4	4516.2	3258.0
27.5°	4629.5	4643.5	4545.1	4420.0	4302.0	4230.9	4386.4	4422.4	4919.4	4701.4	3275.2
30°	5055.4	5032.7	4935.8	4792.8	4657.6	4558.4	4609.2	4619.3	5082.0	4946.8	3320.5
32.5°	5609.5	5546.9	5438.3	5188.2	5091.3	4923.3	4935.8	4948.3	5279.7	5189.8	3375.2
35°	6361.2	6358.1	6145.5	5808.7	5572.7	5364.1	5309.4	5319.5	5579.0	5550.8	3496.3
37.5°	7266.2	7278.7	7036.4	6697.3	6262.8	5931.4	5818.9	5820.5	6033.8	6049.4	3680.8
40°	8003.1	8035.9	7891.4	7662.4	7233.4	6715.2	6526.1	6508.9	6673.0	6653.5	3944.1
42.5°	8320.4	8350.9	8404.8	8484.5	8248.5	7821.0	7374.8	7398.3	7448.3	7311.5	4239.5
45°	8164.9	8213.3	8425.1	8917.5	9139.4	8995.6	8463.4	8381.4	8169.6	8026.6	4536.5
47.5°	7517.0	7635.0	7989.1	8808.8	9585.6	10071.7	9691.9	9583.3	8891.7	8548.6	4725.6
50°	6451.9	6458.9	6952.0	8000.0	9354.3	10750.8	10946.2	10864.9	9564.5	8841.7	4820.9
52.5°	4677.2	4831.1	5282.8	6496.4	8352.4	10647.6	11745.6	11712.0	10258.5	8991.7	4958.5
54°	3555.7	3585.4	3987.1	5191.4	7201.3	10081.1	11794.9	11802.7	10603.1	9082.3	5039.8
55°	2914.9	2843.8	3265.8	4422.4	6415.9	9580.1	11633.9	11671.4	10757.8	9129.2	5099.9
57.5°	1381.7	1382.4	1705.2	2332.7	4018.4	7438.9	10650.0	10782.8	10775.0	9209.7	5285.1
60°	699.4	704.1	775.2	1076.9	1985.0	4945.2	8805.7	9122.2	9945.9	9221.4	5346.1
62.5°	489.2	483.7	472.0	518.1	835.4	2513.2	6555.8	6830.9	8450.1	8775.2	5152.3
65°	418.9	407.2	374.3	367.3	422.0	1001.1	4083.2	4531.8	6451.9	7598.3	4600.6
67.5°	357.9	353.2	323.5	305.6	298.5	436.1	2106.9	2342.9	4409.9	5461.8	3484.6
70°	304.0	301.7	283.7	261.0	241.5	261.0	781.5	968.3	2457.8	2940.7	1644.2
72.5°	246.9	249.3	252.4	223.5	203.2	185.2	333.7	388.4	1028.4	1051.1	575.2
75°	216.5	214.1	214.1	194.6	169.6	137.5	183.6	197.7	314.9	292.3	133.6
77.5°	152.4	146.9	171.9	160.2	141.4	97.7	104.7	111.0	130.5	111.8	62.5
80°	105.5	105.5	110.2	143.8	127.4	71.1	64.1	68.8	77.4	66.4	35.9
82.5°	59.4	61.0	71.9	76.6	74.2	47.7	42.2	43.0	51.6	45.3	22.7
85°	7.0	11.7	41.4	40.6	30.5	21.1	23.4	24.2	32.0	28.1	13.3
87.5°	0.8	1.6	8.6	10.9	7.8	8.6	8.6	8.6	10.9	12.5	9.4
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°	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4
2.5°	2583.6	2524.2	2382.7	2218.6	2113.9	1943.5	1799.7	1695.8	1670.0	1620.0	1634.9
5°	2580.4	2457.0	2168.6	1863.8	1538.7	1296.5	1116.0	973.7	911.2	869.8	840.9
7.5°	2582.0	2389.0	1926.3	1441.0	1052.7	815.1	647.8	561.1	503.3	479.0	482.2
10°	2586.7	2312.4	1645.0	1067.5	710.4	526.7	424.3	382.9	363.4	360.3	359.5
12.5°	2597.6	2228.8	1376.2	792.4	497.0	382.9	343.9	329.8	323.5	323.5	321.2
15°	2609.4	2136.6	1152.7	589.2	382.9	329.0	311.0	304.0	300.1	300.1	299.3
17.5°	2609.4	2030.3	944.0	457.2	329.8	302.4	288.4	279.0	275.9	275.9	275.1
20°	2592.9	1906.8	758.8	368.1	299.3	277.4	263.4	253.2	249.3	247.7	246.9
22.5°	2535.9	1741.9	604.1	316.5	274.3	255.5	237.6	225.8	222.7	221.2	221.9
25°	2434.3	1555.9	478.3	278.2	251.6	229.0	213.3	204.7	201.6	201.6	202.4
27.5°	2329.6	1361.3	379.0	249.3	224.3	204.0	191.5	186.0	185.2	187.6	188.3
30°	2232.7	1166.0	307.1	225.8	200.1	182.9	174.3	172.7	172.7	173.5	174.3
32.5°	2124.8	994.8	257.1	205.5	180.5	165.7	161.0	161.0	162.5	162.5	164.1
35°	2056.9	847.9	225.8	186.0	165.7	153.2	150.0	150.8	153.2	156.3	157.9
37.5°	2020.1	730.7	205.5	170.4	151.6	143.0	139.9	141.4	146.9	152.4	153.2
40°	2023.2	642.4	189.1	157.1	140.7	131.3	128.9	133.6	139.1	144.6	145.4
42.5°	2057.6	576.7	173.5	141.4	131.3	118.0	117.2	121.9	124.3	129.7	130.5
45°	2098.3	529.1	157.1	125.0	114.1	102.4	103.2	107.1	110.2	118.8	120.3
47.5°	2110.8	496.2	138.3	106.3	93.8	89.9	90.7	93.0	99.2	107.1	107.8
50°	2124.8	475.9	120.3	89.9	79.7	78.9	79.7	81.3	85.2	88.3	87.5
52.5°	2185.0	475.1	105.5	78.1	68.0	69.6	70.3	69.6	66.4	61.7	60.2
54°	2241.3	477.5	98.5	72.7	62.5	64.9	64.1	60.2	52.4	47.7	45.3
55°	2286.6	479.8	94.6	68.8	59.4	60.2	61.0	53.1	43.0	38.3	36.7
57.5°	2375.7	474.4	85.2	60.2	52.4	49.2	48.5	35.2	23.4	20.3	18.8
60°	2331.2	428.3	77.4	51.6	44.5	39.9	32.8	19.5	11.7	8.6	8.6
62.5°	2156.1	363.4	68.8	42.2	36.7	30.5	17.2	10.9	5.5	3.1	2.3
65°	1928.7	305.6	61.7	33.6	28.9	19.5	9.4	7.0	2.3	0.0	0.0
67.5°	1434.0	226.6	52.4	26.6	21.9	12.5	6.3	3.9	0.8	0.0	0.0
70°	664.3	138.3	44.5	20.3	15.6	9.4	4.7	2.3	0.0	0.0	0.0
72.5°	190.7	86.7	36.7	14.8	10.9	7.8	3.9	1.6	0.8	0.0	0.0
75°	66.4	69.6	27.4	10.9	8.6	5.5	3.1	1.6	0.8	0.0	0.0
77.5°	39.9	56.3	17.2	9.4	7.0	4.7	3.1	1.6	0.8	0.8	0.0
80°	22.7	37.5	10.9	7.8	6.3	3.9	2.3	1.6	0.8	0.8	0.0
82.5°	12.5	18.0	8.6	7.0	5.5	3.9	2.3	1.6	0.8	0.8	0.8
85°	10.2	9.4	7.0	6.3	4.7	3.1	2.3	0.8	0.0	0.0	0.0
87.5°	7.8	6.3	6.3	6.3	4.7	3.1	2.3	0.8	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)