

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: P651838

Luminaire Tested: **GALN-SA4A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8897.8 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

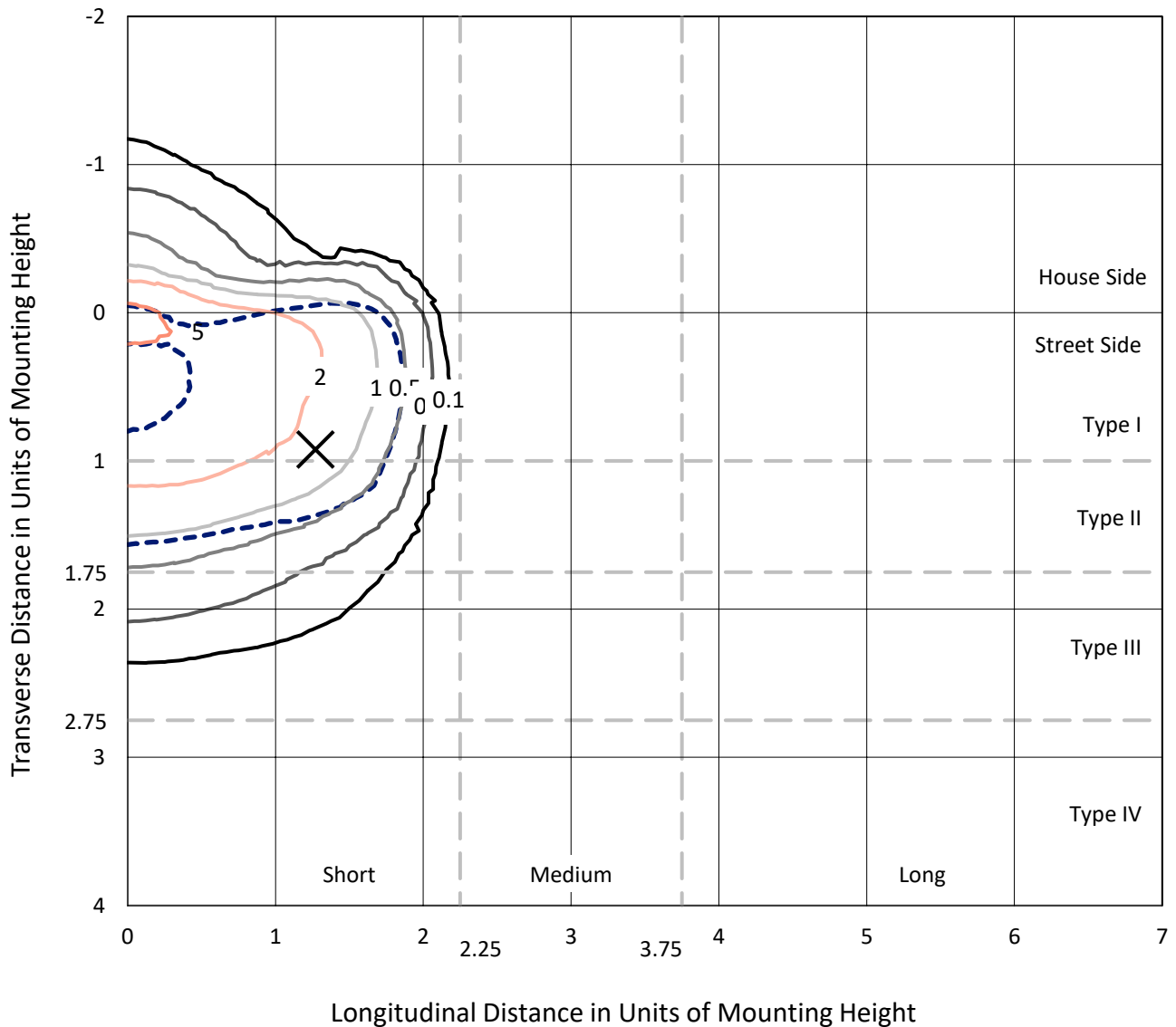
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

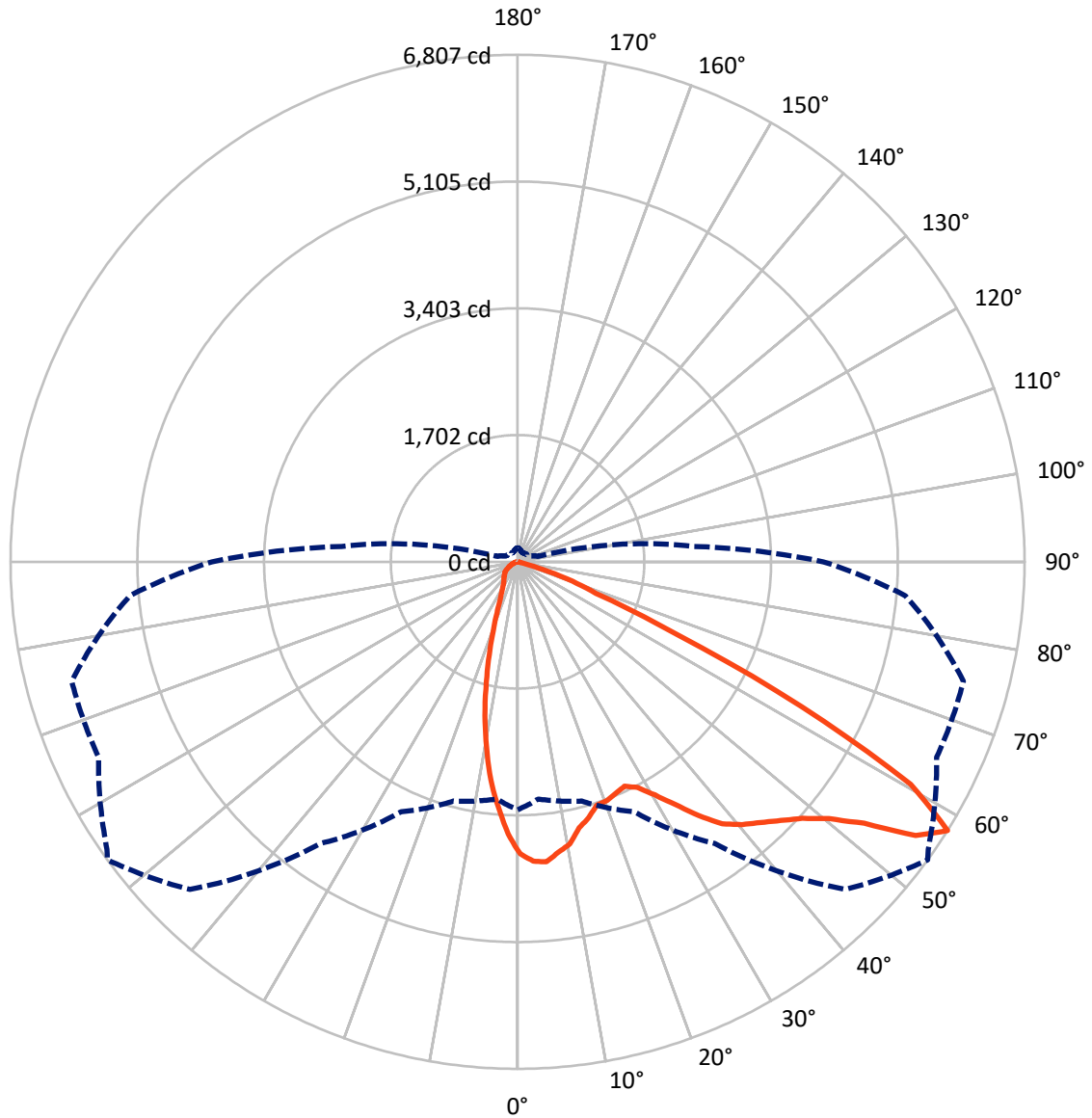
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1257.4	0.0	1257.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7640.4	0.0	7640.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	8897.8	0.0	8897.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.0	3.7
10°-20°	700.3	7.9
20°-30°	928.0	10.4
30°-40°	1348.6	15.2
40°-50°	1999.9	22.5
50°-60°	2500.7	28.1
60°-70°	986.4	11.1
70°-80°	98.2	1.1
80°-90°	7.6	0.1
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°	8897.8	100.0
0°-180°	8897.8	100.0

Coefficient of Utilization

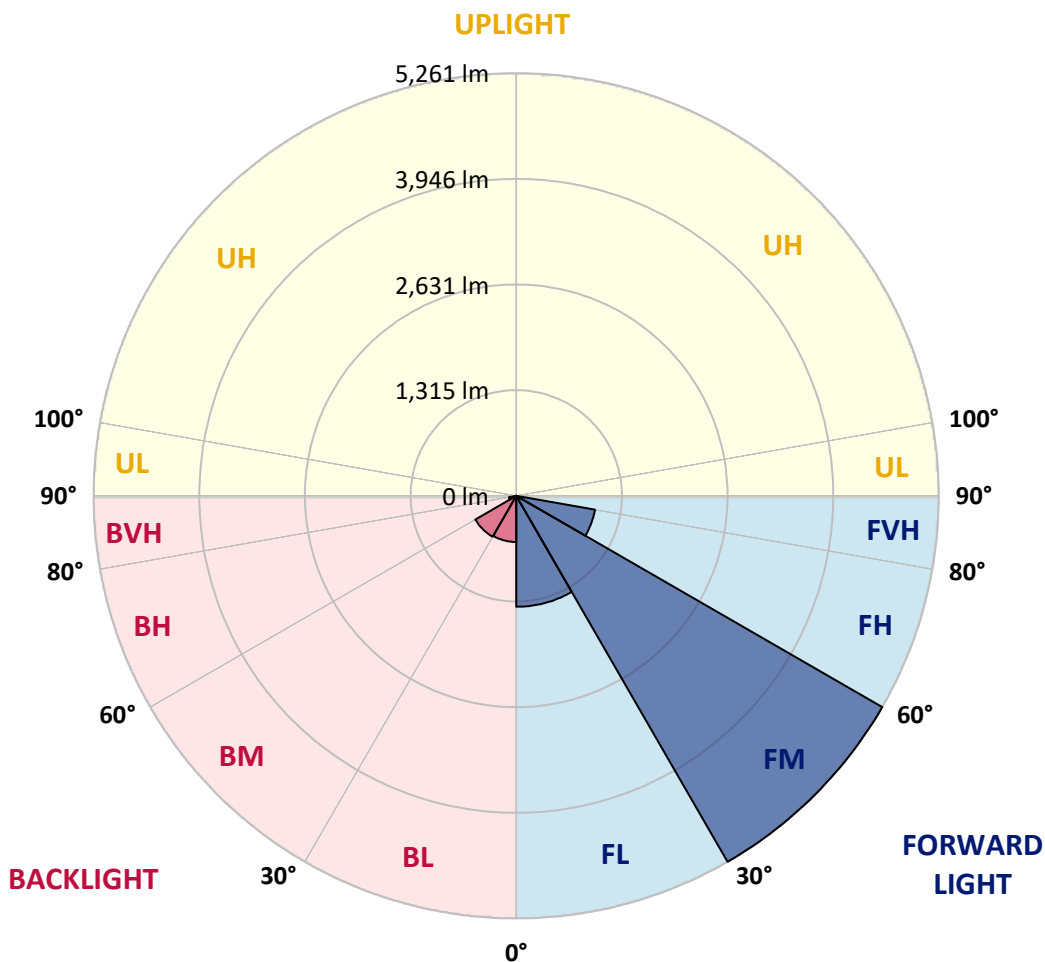


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.2	15.5			
FM (30°-60°)	5261.2	59.1			
FH (60°-80°)	994.5	11.2			G1/1800
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	575.1	6.5	B2/1000		
BM (30°-60°)	588.0	6.6	B1/1000		
BH (60°-80°)	90.2	1.0	B0/110		G0/110
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6
2.5°	4147.9	4104.9	4108.2	4093.3	4073.5	4088.4	4023.8	4038.7	4037.1	3949.3	3891.5
5°	4043.7	4090.0	4042.0	4081.7	4043.7	4085.1	4045.4	4015.5	3967.6	3903.1	3795.5
7.5°	3866.7	3822.0	3835.2	3884.8	3893.2	3985.8	3936.1	3974.2	3954.3	3827.0	3679.7
10°	3510.9	3501.0	3567.2	3633.4	3714.4	3813.7	3851.8	3830.3	3815.4	3767.3	3570.5
12.5°	3237.9	3266.0	3264.4	3373.6	3510.9	3567.2	3666.4	3663.1	3745.9	3656.5	3467.9
15°	2978.1	2993.0	3062.5	3130.4	3282.6	3443.1	3565.5	3582.1	3681.3	3618.5	3388.5
17.5°	2819.4	2797.8	2852.4	2933.5	3089.0	3299.2	3434.8	3474.5	3610.2	3597.0	3297.5
20°	2662.2	2662.2	2706.8	2802.8	2945.1	3181.7	3423.2	3411.7	3610.2	3572.1	3199.8
22.5°	2609.2	2635.7	2647.2	2720.0	2888.8	3092.4	3373.6	3395.1	3638.3	3560.5	3156.9
25°	2682.0	2647.2	2650.6	2708.4	2867.3	3049.3	3337.2	3385.2	3689.6	3618.5	3122.1
27.5°	2693.6	2728.3	2738.3	2778.0	2883.9	3062.5	3428.2	3525.8	3817.0	3754.1	3132.1
30°	2794.5	2829.3	2827.6	2895.4	2968.2	3170.1	3631.7	3651.5	4080.1	3924.5	3193.3
32.5°	2916.9	2953.3	2964.9	3044.3	3102.3	3366.9	3879.9	3931.2	4333.3	4192.6	3353.7
35°	3069.1	3055.9	3108.8	3188.3	3312.4	3654.9	4182.6	4268.7	4606.2	4540.1	3519.2
37.5°	3259.5	3242.9	3294.2	3423.2	3592.0	3995.7	4462.3	4518.5	4804.8	4862.7	3825.3
40°	3393.4	3400.1	3555.6	3729.3	3908.0	4320.0	4639.3	4693.9	4943.7	5163.8	4056.9
42.5°	3616.8	3658.2	3845.1	4056.9	4243.9	4563.2	4783.3	4836.2	5008.2	5405.4	4369.6
45°	3941.1	3922.9	4129.7	4366.3	4573.1	4816.3	4953.7	4935.5	5046.3	5645.3	4566.5
47.5°	4358.1	4361.3	4498.7	4700.5	4915.6	5036.4	5144.0	5079.4	5125.7	5898.4	4829.6
50°	4642.7	4667.5	4778.3	4985.1	5092.7	5277.9	5415.3	5375.6	5360.7	6050.7	4995.0
52.5°	4715.4	4789.9	4849.5	5107.6	5359.0	5651.9	5827.3	5911.6	5646.9	6102.0	5205.2
55°	4166.1	4232.3	4442.4	4796.5	5459.9	6244.2	6485.8	6487.4	6020.9	6330.2	5352.5
57.5°	3330.6	3196.6	3325.7	3701.2	4616.2	6219.4	6806.7	6729.0	6207.8	6196.2	5225.0
60°	2303.1	2270.0	2278.3	2427.2	3194.9	4947.1	6065.5	6166.5	5716.4	5370.6	4136.4
62.5°	1825.0	1796.8	1760.5	1743.9	1983.8	3082.4	4278.6	4420.9	3997.4	3482.8	2452.0
65°	1429.5	1413.0	1417.9	1484.1	1482.4	1748.9	2339.5	2281.6	1826.6	1350.1	771.0
67.5°	964.6	989.4	1009.3	1209.4	1312.0	1217.8	1130.1	1096.9	594.0	249.9	170.4
70°	542.7	546.0	567.5	756.1	996.0	944.8	779.3	779.3	296.2	91.0	97.6
72.5°	296.2	286.3	266.3	326.0	443.4	450.0	347.4	302.8	87.7	59.5	54.6
75°	144.0	142.3	122.4	100.9	96.0	79.4	61.2	56.3	39.7	38.0	33.1
77.5°	29.8	28.1	14.9	14.9	16.6	18.2	23.1	23.1	28.1	28.1	23.1
80°	0.0	0.0	1.7	6.6	11.6	16.6	19.8	19.8	23.1	23.1	18.2
82.5°	0.0	0.0	1.7	5.0	9.9	14.9	18.2	19.8	23.1	24.8	19.8
85°	0.0	0.0	0.0	3.3	8.2	11.6	9.9	9.9	8.2	6.6	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6	3919.6
2.5°	3861.7	3858.3	3782.2	3739.3	3661.5	3593.7	3539.0	3499.3	3499.3	3474.5	3451.4
5°	3752.5	3724.4	3562.2	3457.9	3310.8	3201.5	3127.1	3069.1	2978.1	3003.0	2905.4
7.5°	3616.8	3545.7	3330.6	3171.7	2968.2	2812.7	2653.9	2513.2	2377.6	2316.4	2349.4
10°	3471.2	3347.1	3057.5	2806.1	2552.9	2268.3	2083.1	1858.0	1719.1	1710.8	1674.3
12.5°	3317.3	3176.7	2824.3	2476.8	2144.3	1801.8	1518.8	1308.8	1214.4	1110.2	1130.1
15°	3201.5	2993.0	2564.5	2145.9	1704.2	1358.4	1073.8	911.6	822.3	797.5	789.2
17.5°	3075.8	2852.4	2299.8	1793.5	1336.9	977.8	772.6	694.9	660.2	660.2	655.2
20°	2945.1	2693.6	2036.7	1465.9	1002.6	729.7	618.8	594.0	592.3	590.6	590.6
22.5°	2859.1	2511.6	1798.5	1164.8	756.1	584.1	537.7	527.8	534.5	554.3	554.3
25°	2768.1	2336.2	1535.4	898.4	585.7	501.3	474.8	481.5	498.0	516.2	509.6
27.5°	2675.4	2222.0	1287.2	704.8	479.8	438.4	428.5	443.4	461.6	478.2	473.2
30°	2653.9	2099.6	1052.3	534.5	412.0	382.2	388.8	402.1	420.2	426.9	433.5
32.5°	2687.0	2003.7	862.0	438.4	359.0	350.8	350.8	357.3	368.9	383.8	378.9
35°	2781.3	1949.0	681.6	380.6	329.3	321.0	319.3	326.0	332.5	337.5	332.5
37.5°	2925.3	1906.0	557.6	337.5	309.4	296.2	292.8	291.2	297.8	299.5	302.8
40°	3108.8	1929.2	473.2	311.1	289.6	274.7	264.7	264.7	264.7	269.7	271.3
42.5°	3307.4	1960.6	408.6	296.2	271.3	253.1	243.2	239.9	243.2	249.9	248.2
45°	3515.9	2021.8	367.3	273.0	254.8	231.6	218.4	215.1	223.4	236.6	235.0
47.5°	3711.1	2109.6	335.9	258.1	238.3	216.7	200.2	196.9	211.8	230.0	231.6
50°	3906.4	2261.8	324.3	246.5	226.6	201.8	187.0	183.7	200.2	223.4	228.3
52.5°	4131.4	2425.5	316.0	231.6	213.4	190.2	173.8	170.4	188.6	218.4	220.1
55°	4278.6	2564.5	309.4	205.2	188.6	172.1	158.9	157.2	177.0	203.5	210.2
57.5°	4106.5	2370.9	286.3	178.7	160.5	152.2	140.6	140.6	157.2	182.0	187.0
60°	3113.8	1560.2	203.5	144.0	135.7	130.7	125.7	125.7	139.0	157.2	158.9
62.5°	1823.3	840.5	130.7	115.8	115.8	110.8	102.6	102.6	115.8	125.7	127.4
65°	541.0	269.7	105.9	99.2	97.6	89.3	81.1	79.4	89.3	94.3	92.7
67.5°	155.5	124.1	87.7	82.8	81.1	67.9	62.9	61.2	62.9	59.5	57.9
70°	92.7	84.4	67.9	69.5	61.2	49.6	44.7	43.1	39.7	34.7	31.5
72.5°	51.3	51.3	49.6	53.0	43.1	33.1	28.1	23.1	18.2	14.9	13.2
75°	31.5	33.1	34.7	36.4	28.1	21.5	18.2	11.6	6.6	3.3	3.3
77.5°	21.5	23.1	24.8	26.5	23.1	19.8	14.9	8.2	1.7	0.0	0.0
80°	16.6	18.2	21.5	23.1	24.8	26.5	19.8	8.2	1.7	0.0	0.0
82.5°	18.2	19.8	24.8	23.1	23.1	23.1	18.2	8.2	1.7	0.0	0.0
85°	3.3	5.0	8.2	8.2	11.6	14.9	11.6	3.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)