

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: P453096

Luminaire Tested: **GALN-SA4A-760-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14806 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

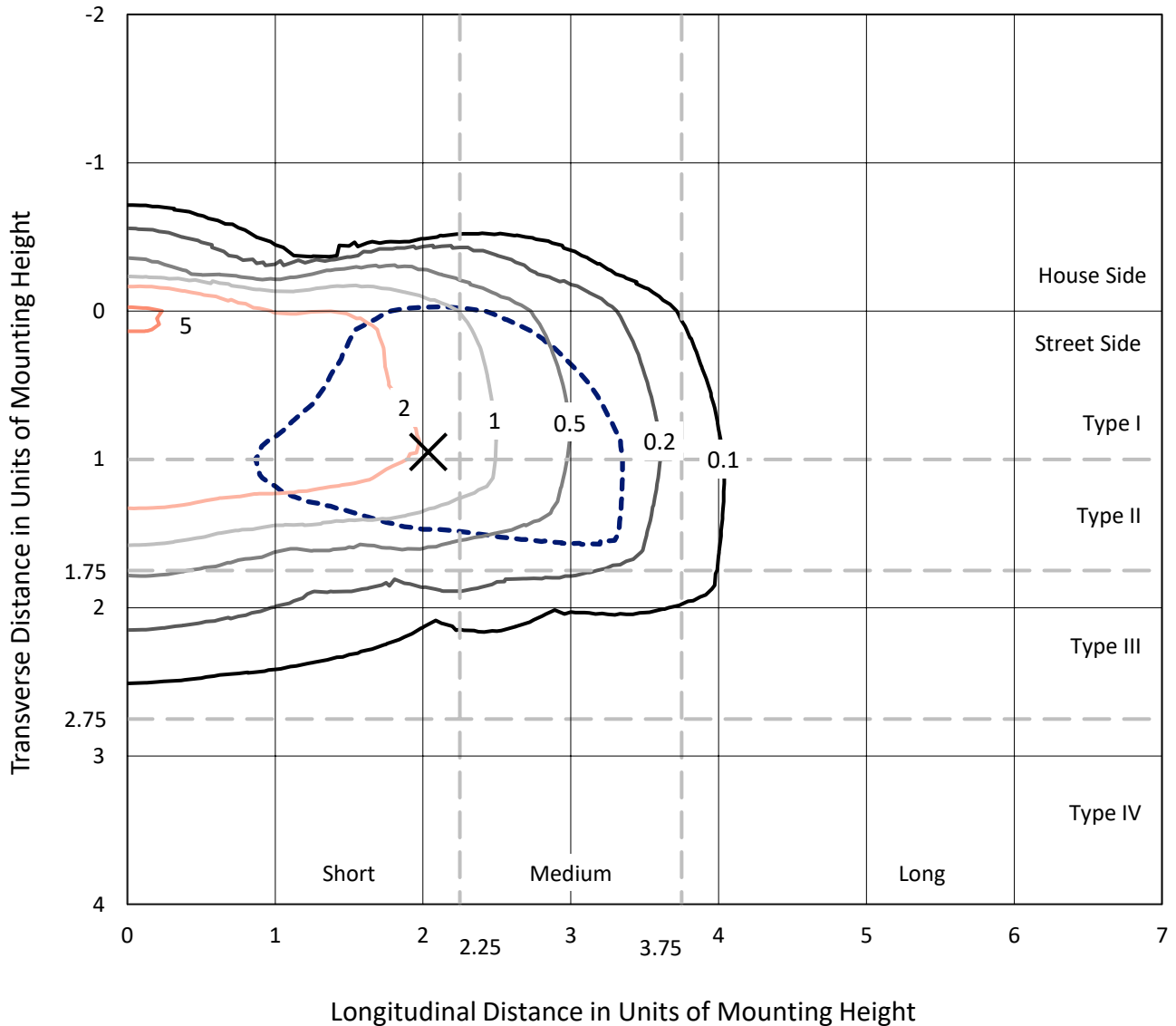
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

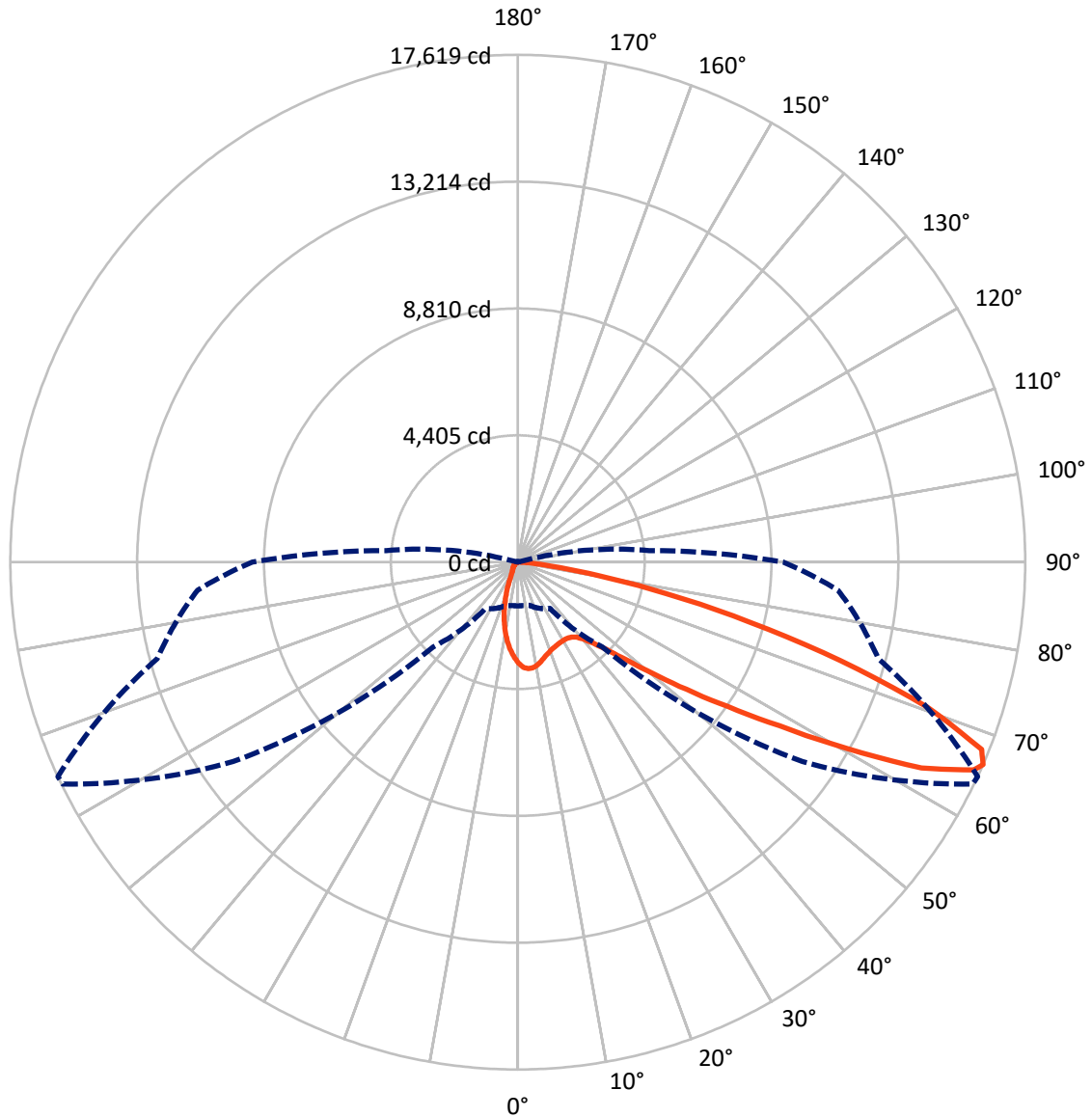
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1531.1	0.0	1531.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13274.8	0.0	13274.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	14806.0	0.0	14806.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.9
10°-20°	625.7	4.2
20°-30°	896.2	6.1
30°-40°	1309.1	8.8
40°-50°	2195.1	14.8
50°-60°	3663.2	24.7
60°-70°	3888.4	26.3
70°-80°	1761.0	11.9
80°-90°	180.2	1.2
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°	14806.0	100.0
0°-180°	14806.0	100.0



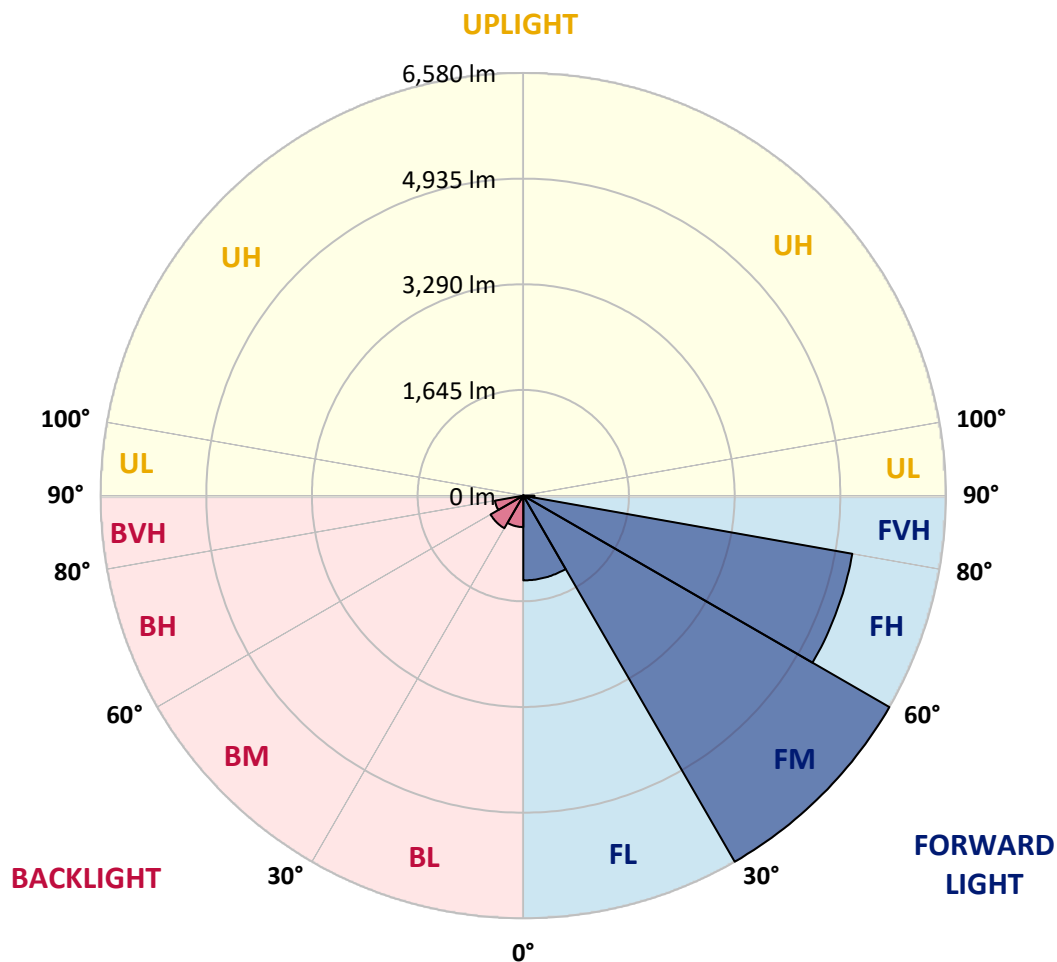
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.3	8.9			
FM (30°-60°)	6580.1	44.4			
FH (60°-80°)	5201.0	35.1			G3/7500
FVH (80°-90°)	174.4	1.2			G2/225
BL (0°-30°)	489.8	3.3	B1/500		
BM (30°-60°)	587.2	4.0	B1/1000		
BH (60°-80°)	448.4	3.0	B1/500		G1/500
BVH (80°-90°)	5.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0
2.5°	3700.1	3704.1	3709.1	3716.1	3721.1	3706.1	3685.1	3661.1	3656.1	3605.0	3543.0
5°	3502.0	3508.0	3552.0	3576.0	3630.1	3679.1	3710.1	3714.1	3712.1	3664.1	3565.0
7.5°	3220.0	3237.0	3280.0	3322.0	3423.0	3516.0	3626.1	3703.1	3708.1	3695.1	3572.0
10°	2991.0	3002.0	3024.0	3107.0	3191.0	3333.0	3487.0	3632.1	3644.1	3696.1	3566.0
12.5°	2812.0	2828.0	2855.0	2919.0	3020.0	3154.0	3329.0	3524.0	3549.0	3677.1	3549.0
15°	2687.0	2695.0	2722.0	2785.0	2883.0	3007.0	3184.0	3411.0	3433.0	3652.1	3546.0
17.5°	2628.0	2637.0	2656.0	2706.0	2787.0	2902.0	3075.0	3320.0	3348.0	3636.1	3557.0
20°	2644.0	2652.0	2653.0	2679.0	2734.0	2831.0	2995.0	3235.0	3271.0	3626.1	3575.0
22.5°	2735.0	2736.0	2724.0	2712.0	2731.0	2801.0	2946.0	3181.0	3218.0	3624.1	3596.0
25°	2871.0	2874.0	2854.0	2812.0	2774.0	2810.0	2935.0	3146.0	3179.0	3619.1	3609.1
27.5°	3059.0	3058.0	3052.0	2982.0	2874.0	2850.0	2944.0	3127.0	3155.0	3605.0	3614.1
30°	3322.0	3314.0	3301.0	3222.0	3057.0	2947.0	2982.0	3115.0	3141.0	3585.0	3601.0
32.5°	3581.0	3611.1	3609.1	3534.0	3328.0	3120.0	3061.0	3131.0	3150.0	3572.0	3582.0
35°	3883.1	3882.1	3959.1	3931.1	3690.1	3341.0	3196.0	3184.0	3199.0	3581.0	3573.0
37.5°	4163.1	4189.1	4309.1	4338.1	4118.1	3653.1	3387.0	3298.0	3303.0	3642.1	3595.0
40°	4512.1	4562.1	4741.1	4838.1	4644.1	4116.1	3669.1	3507.0	3508.0	3792.1	3678.1
42.5°	4962.1	5041.1	5208.1	5370.1	5266.1	4664.1	4092.1	3838.1	3836.1	4056.1	3868.1
45°	5509.1	5564.1	5754.1	6011.1	5945.1	5429.1	4708.1	4351.1	4325.1	4489.1	4205.1
47.5°	5981.1	6056.1	6249.1	6542.1	6842.1	6363.1	5444.1	5056.1	5039.1	5178.1	4783.1
50°	6187.1	6253.1	6456.1	6867.1	7594.1	7589.1	6540.1	6085.1	6056.1	6131.1	5677.1
52.5°	5961.1	6023.1	6228.1	6740.1	7948.1	9083.1	8128.1	7376.1	7341.1	7245.1	6745.1
55°	5187.1	5238.1	5541.1	6129.1	7812.1	10079.1	10316.1	8971.1	8835.1	8462.1	7954.1
57.5°	4130.1	4104.1	4292.1	4975.1	7014.1	10413.1	12562.2	10958.2	10715.1	9514.1	8977.1
60°	2862.0	2942.0	3018.0	3468.0	5274.1	9834.1	13959.2	13456.2	13136.2	10549.1	9957.1
62.5°	2104.0	2157.0	2207.0	2415.0	3316.0	7852.1	14206.2	16022.2	15738.2	11648.2	10892.2
65°	1664.0	1668.0	1688.0	1893.0	2185.0	5106.1	13019.2	17469.2	17396.2	12706.2	11271.2
66°	1516.0	1517.0	1548.0	1768.0	1961.0	4158.1	12068.2	17579.2	17619.2	12960.2	11160.2
67.5°	1325.0	1321.0	1366.0	1589.0	1786.0	2998.0	10366.1	17133.2	17370.2	13155.2	10761.1
70°	1027.0	1022.0	1077.0	1333.0	1645.0	2000.0	6890.1	14711.2	15093.2	12756.2	9521.1
72.5°	684.0	688.0	782.0	1052.0	1570.0	1761.0	4145.1	11191.2	11731.2	10534.1	7490.1
75°	399.0	406.0	513.0	782.0	1363.0	1679.0	2346.0	7980.1	8325.1	7274.1	4666.1
77.5°	209.0	212.0	287.0	516.0	1045.0	1559.0	1563.0	5098.1	5260.1	3535.0	1847.0
80°	111.0	108.0	154.0	311.0	719.0	1369.0	1268.0	2699.0	2806.0	1050.0	467.0
82.5°	42.0	46.0	82.0	204.0	425.0	983.0	1092.0	1193.0	1156.0	231.0	196.0
85°	8.0	10.0	35.0	121.0	214.0	411.0	805.0	585.0	542.0	87.0	113.0
87.5°	1.0	2.0	10.0	29.0	31.0	139.0	238.0	162.0	140.0	32.0	47.0
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°	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0
2.5°	3513.0	3486.0	3396.0	3307.0	3216.0	3134.0	3078.0	2987.0	2964.0	2931.0	2912.0
5°	3506.0	3443.0	3270.0	3081.0	2905.0	2715.0	2570.0	2430.0	2355.0	2317.0	2303.0
7.5°	3486.0	3386.0	3116.0	2820.0	2538.0	2254.0	2007.0	1819.0	1698.0	1615.0	1559.0
10°	3446.0	3308.0	2937.0	2530.0	2104.0	1729.0	1416.0	1178.0	994.0	936.0	938.0
12.5°	3405.0	3221.0	2737.0	2208.0	1680.0	1207.0	875.0	687.0	599.0	570.0	564.0
15°	3367.0	3138.0	2541.0	1896.0	1251.0	782.0	564.0	498.0	474.0	469.0	468.0
17.5°	3347.0	3061.0	2332.0	1539.0	873.0	531.0	452.0	434.0	427.0	422.0	420.0
20°	3330.0	2994.0	2132.0	1205.0	597.0	435.0	405.0	388.0	376.0	371.0	368.0
22.5°	3318.0	2925.0	1925.0	933.0	457.0	386.0	359.0	337.0	320.0	314.0	310.0
25°	3300.0	2849.0	1716.0	682.0	385.0	343.0	312.0	286.0	264.0	253.0	251.0
27.5°	3274.0	2763.0	1487.0	505.0	344.0	305.0	267.0	235.0	213.0	201.0	202.0
30°	3232.0	2673.0	1258.0	401.0	311.0	266.0	225.0	194.0	173.0	164.0	163.0
32.5°	3182.0	2564.0	1048.0	344.0	281.0	231.0	188.0	161.0	145.0	138.0	137.0
35°	3135.0	2454.0	834.0	309.0	250.0	199.0	158.0	135.0	123.0	117.0	118.0
37.5°	3109.0	2356.0	650.0	281.0	225.0	171.0	136.0	116.0	105.0	100.0	99.0
40°	3126.0	2276.0	517.0	256.0	197.0	147.0	117.0	100.0	89.0	82.0	82.0
42.5°	3206.0	2241.0	417.0	232.0	171.0	127.0	102.0	86.0	74.0	67.0	68.0
45°	3450.0	2278.0	349.0	210.0	147.0	110.0	88.0	71.0	60.0	55.0	54.0
47.5°	3855.1	2417.0	302.0	187.0	126.0	94.0	74.0	59.0	48.0	44.0	43.0
50°	4563.1	2704.0	267.0	164.0	107.0	80.0	61.0	47.0	38.0	34.0	34.0
52.5°	5537.1	3330.0	242.0	138.0	90.0	68.0	50.0	38.0	30.0	27.0	26.0
55°	6555.1	3990.1	229.0	116.0	75.0	56.0	40.0	30.0	23.0	20.0	19.0
57.5°	7534.1	4508.1	214.0	94.0	60.0	43.0	31.0	23.0	16.0	14.0	13.0
60°	8473.1	4927.1	182.0	75.0	47.0	31.0	23.0	16.0	11.0	9.0	9.0
62.5°	9313.1	5171.1	143.0	60.0	36.0	22.0	15.0	12.0	8.0	6.0	6.0
65°	9411.1	4854.1	108.0	46.0	26.0	14.0	9.0	9.0	6.0	4.0	4.0
66°	9214.1	4585.1	95.0	42.0	23.0	12.0	8.0	7.0	5.0	3.0	3.0
67.5°	8774.1	4126.1	82.0	36.0	19.0	9.0	6.0	6.0	4.0	2.0	2.0
70°	7581.1	3370.0	65.0	27.0	14.0	7.0	4.0	4.0	3.0	2.0	2.0
72.5°	5778.1	2516.0	53.0	20.0	10.0	5.0	3.0	3.0	3.0	2.0	2.0
75°	3485.0	1355.0	41.0	15.0	9.0	4.0	2.0	3.0	4.0	3.0	2.0
77.5°	1284.0	461.0	32.0	12.0	7.0	4.0	2.0	2.0	4.0	3.0	3.0
80°	315.0	120.0	23.0	10.0	7.0	4.0	2.0	2.0	4.0	4.0	4.0
82.5°	146.0	51.0	16.0	9.0	7.0	4.0	2.0	2.0	3.0	4.0	4.0
85°	84.0	24.0	13.0	10.0	7.0	4.0	2.0	2.0	3.0	4.0	4.0
87.5°	34.0	12.0	12.0	10.0	8.0	5.0	2.0	2.0	2.0	3.0	3.0
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)