

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: P528207

Luminaire Tested: **GALN-SA3B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528207
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-SA3B-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 9254 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

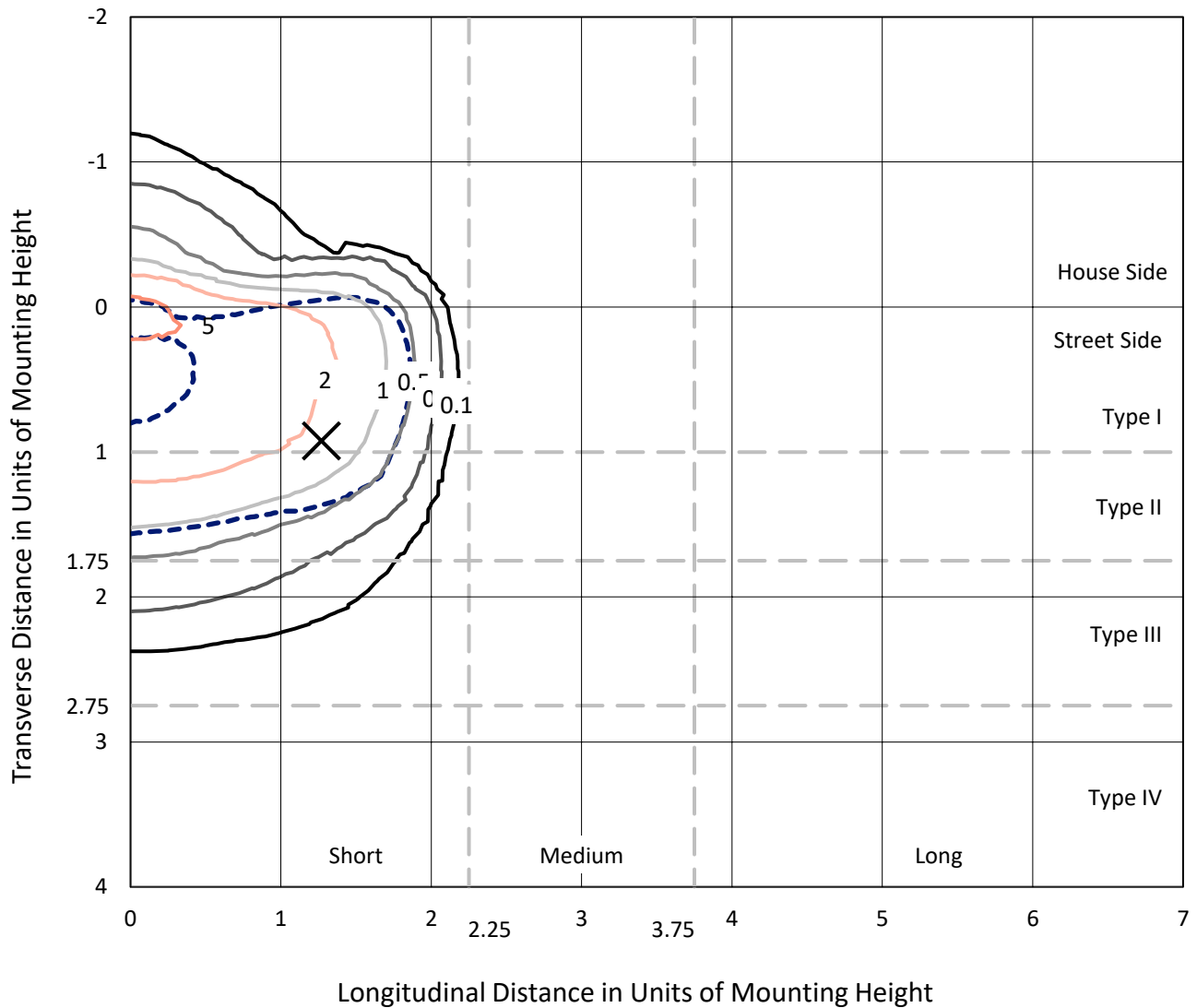
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

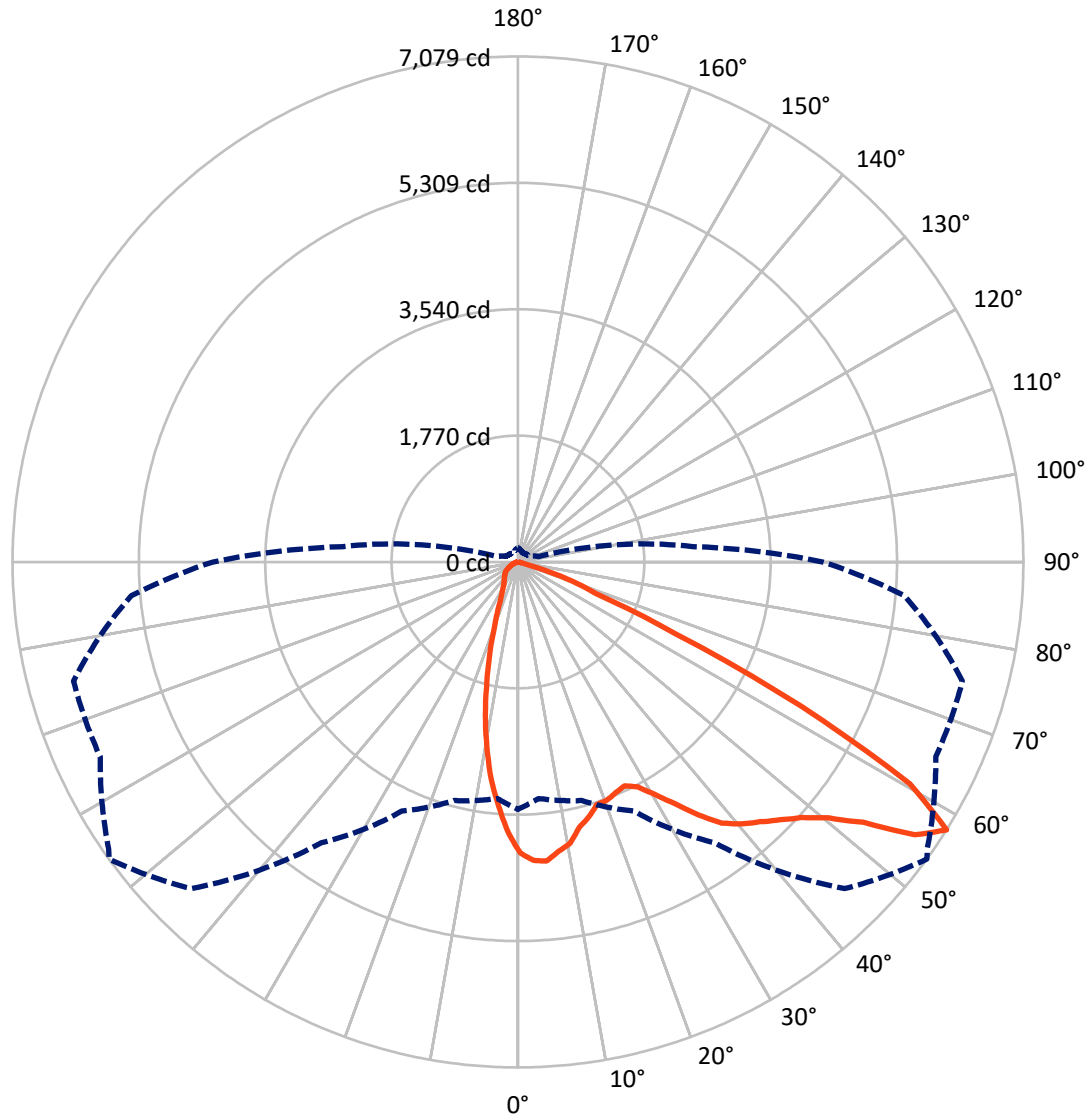
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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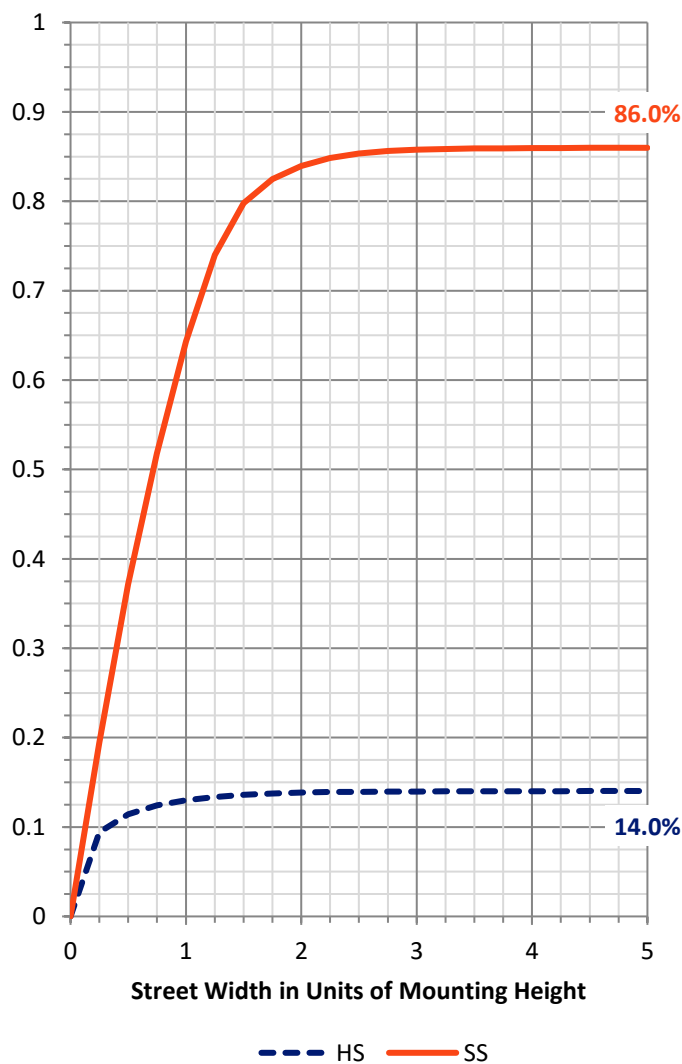
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1307.7	0.0	1307.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7946.3	0.0	7946.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	9254.0	0.0	9254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	3.7
10°-20°	728.3	7.9
20°-30°	965.2	10.4
30°-40°	1402.6	15.2
40°-50°	2079.9	22.5
50°-60°	2600.9	28.1
60°-70°	1025.9	11.1
70°-80°	102.1	1.1
80°-90°	7.9	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°	9254.0	100.0
0°-180°	9254.0	100.0

Coefficient of Utilization



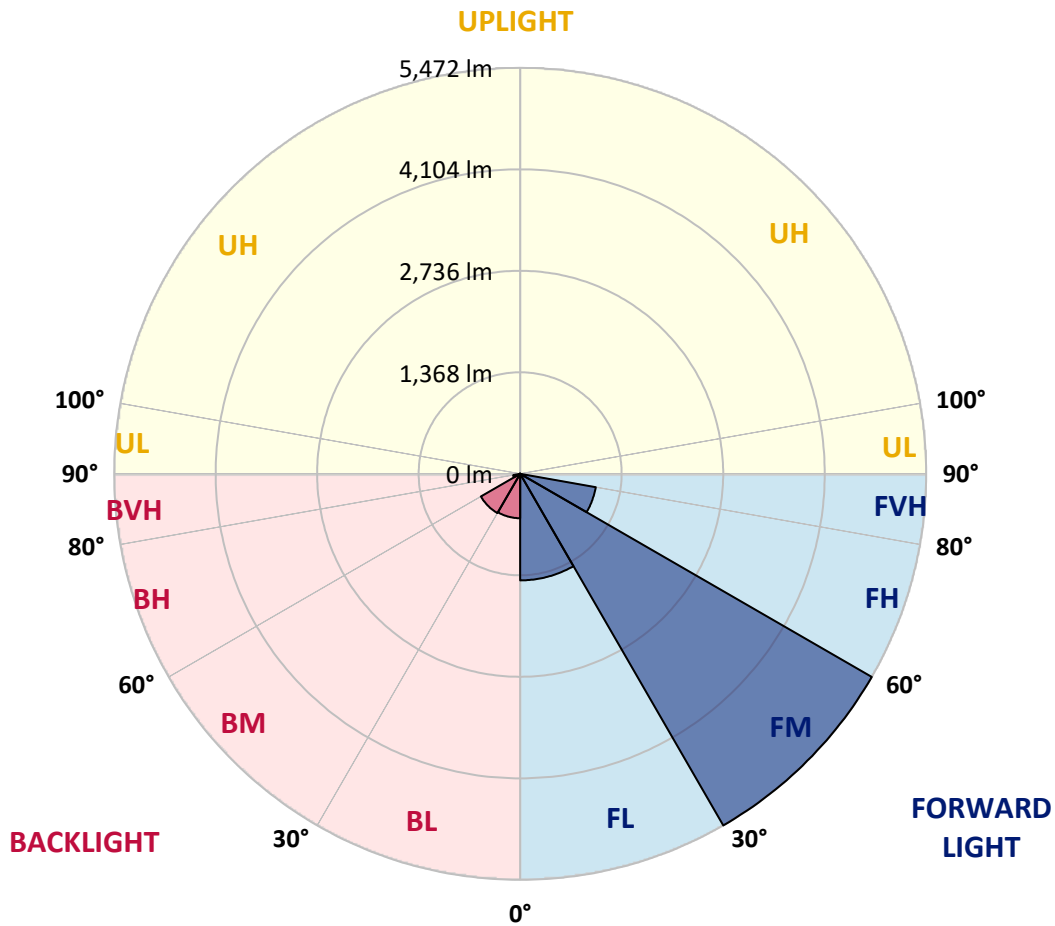
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.5	15.5			
FM (30°-60°)	5471.9	59.1			
FH (60°-80°)	1034.3	11.2			G1/1800
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	598.1	6.5	B2/1000		
BM (30°-60°)	611.5	6.6	B1/1000		
BH (60°-80°)	93.8	1.0	B0/110		G0/110
BVH (80°-90°)	4.3	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°	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5
2.5°	4314.0	4269.2	4272.7	4257.2	4236.5	4252.0	4184.9	4200.4	4198.7	4107.5	4047.3
5°	4205.6	4253.8	4203.8	4245.1	4205.6	4248.6	4207.3	4176.3	4126.4	4059.3	3947.5
7.5°	4021.4	3975.0	3988.8	4040.4	4049.0	4145.3	4093.7	4133.3	4112.6	3980.1	3827.0
10°	3651.5	3641.2	3710.0	3778.8	3863.1	3966.4	4006.0	3983.6	3968.1	3918.2	3713.4
12.5°	3367.6	3396.8	3395.1	3508.7	3651.5	3710.0	3813.2	3809.8	3895.8	3802.9	3606.7
15°	3097.4	3112.9	3185.2	3255.7	3414.0	3580.9	3708.3	3725.5	3828.7	3763.3	3524.1
17.5°	2932.2	2909.8	2966.6	3050.9	3212.7	3431.2	3572.3	3613.6	3754.7	3741.0	3429.5
20°	2768.7	2768.7	2815.2	2915.0	3063.0	3309.0	3560.3	3548.2	3754.7	3715.1	3328.0
22.5°	2713.7	2741.2	2753.2	2829.0	3004.5	3216.1	3508.7	3531.0	3784.0	3703.1	3283.2
25°	2789.4	2753.2	2756.7	2816.9	2982.1	3171.4	3470.8	3520.7	3837.3	3763.3	3247.1
27.5°	2801.4	2837.6	2847.9	2889.2	2999.3	3185.2	3565.4	3667.0	3969.8	3904.4	3257.4
30°	2906.4	2942.5	2940.8	3011.4	3087.1	3297.0	3777.1	3797.7	4243.4	4081.7	3321.1
32.5°	3033.7	3071.6	3083.6	3166.2	3226.4	3501.8	4035.2	4088.6	4506.7	4360.4	3488.0
35°	3192.0	3178.3	3233.3	3315.9	3445.0	3801.2	4350.1	4439.6	4790.6	4721.8	3660.1
37.5°	3389.9	3372.7	3426.1	3560.3	3735.8	4155.7	4640.9	4699.4	4997.1	5057.4	3978.4
40°	3529.3	3536.2	3697.9	3878.6	4064.5	4492.9	4825.0	4881.8	5141.7	5370.5	4219.3
42.5°	3761.6	3804.6	3999.1	4219.3	4413.8	4745.9	4974.8	5029.8	5208.8	5621.8	4544.6
45°	4098.9	4080.0	4295.0	4541.1	4756.2	5009.2	5152.0	5133.1	5248.4	5871.3	4749.3
47.5°	4532.5	4536.0	4678.8	4888.7	5112.4	5238.0	5349.9	5282.8	5331.0	6134.6	5022.9
50°	4828.5	4854.3	4969.6	5184.7	5296.5	5489.3	5632.1	5590.8	5575.3	6292.9	5195.0
52.5°	4904.2	4981.6	5043.6	5312.0	5573.6	5878.2	6060.6	6148.3	5873.0	6346.2	5413.6
55°	4332.9	4401.7	4620.3	4988.5	5678.6	6494.2	6745.4	6747.2	6261.9	6583.7	5566.7
57.5°	3463.9	3324.5	3458.8	3849.4	4801.0	6468.4	7079.3	6998.4	6456.3	6444.3	5434.2
60°	2395.3	2360.9	2369.5	2524.4	3322.8	5145.1	6308.4	6413.3	5945.3	5585.6	4301.9
62.5°	1898.0	1868.8	1830.9	1813.7	2063.2	3205.8	4449.9	4597.9	4157.4	3622.2	2550.2
65°	1486.7	1469.5	1474.7	1543.5	1541.8	1818.9	2433.2	2372.9	1899.7	1404.2	801.9
67.5°	1003.2	1029.0	1049.7	1257.9	1364.6	1266.5	1175.3	1140.9	617.8	259.8	177.2
70°	564.4	567.9	590.2	786.4	1035.9	982.6	810.5	810.5	308.0	94.6	101.5
72.5°	308.0	297.7	277.0	339.0	461.2	468.1	361.4	314.9	91.2	61.9	56.8
75°	149.7	148.0	127.3	105.0	99.8	82.6	63.7	58.5	41.3	39.6	34.4
77.5°	31.0	29.3	15.5	15.5	17.2	18.9	24.1	24.1	29.3	29.3	24.1
80°	0.0	0.0	1.7	6.9	12.0	17.2	20.6	20.6	24.1	24.1	18.9
82.5°	0.0	0.0	1.7	5.2	10.3	15.5	18.9	20.6	24.1	25.8	20.6
85°	0.0	0.0	0.0	3.4	8.6	12.0	10.3	10.3	8.6	6.9	3.4
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°	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5	4076.5
2.5°	4016.3	4012.8	3933.7	3888.9	3808.1	3737.5	3680.7	3639.4	3639.4	3613.6	3589.5
5°	3902.7	3873.5	3704.8	3596.4	3443.3	3329.7	3252.3	3192.0	3097.4	3123.2	3021.7
7.5°	3761.6	3687.6	3463.9	3298.7	3087.1	2925.3	2760.1	2613.9	2472.8	2409.1	2443.5
10°	3610.2	3481.1	3180.0	2918.4	2655.2	2359.2	2166.5	1932.4	1787.9	1779.3	1741.4
12.5°	3450.2	3303.9	2937.4	2576.0	2230.1	1873.9	1579.7	1361.1	1263.0	1154.6	1175.3
15°	3329.7	3112.9	2667.2	2231.8	1772.4	1412.8	1116.8	948.1	855.2	829.4	820.8
17.5°	3198.9	2966.6	2391.9	1865.3	1390.4	1017.0	803.6	722.7	686.6	686.6	681.4
20°	3063.0	2801.4	2118.3	1524.6	1042.8	758.9	643.6	617.8	616.0	614.3	614.3
22.5°	2973.5	2612.1	1870.5	1211.4	786.4	607.4	559.3	548.9	555.8	576.5	576.5
25°	2878.9	2429.7	1596.9	934.4	609.2	521.4	493.9	500.7	518.0	536.9	530.0
27.5°	2782.5	2311.0	1338.8	733.0	499.0	456.0	445.7	461.2	480.1	497.3	492.1
30°	2760.1	2183.7	1094.4	555.8	428.5	397.5	404.4	418.1	437.1	444.0	450.8
32.5°	2794.5	2083.9	896.5	456.0	373.4	364.8	364.8	371.7	383.7	399.2	394.1
35°	2892.6	2027.1	709.0	395.8	342.4	333.8	332.1	339.0	345.9	351.0	345.9
37.5°	3042.3	1982.3	579.9	351.0	321.8	308.0	304.6	302.9	309.7	311.5	314.9
40°	3233.3	2006.4	492.1	323.5	301.1	285.6	275.3	275.3	275.3	280.5	282.2
42.5°	3439.8	2039.1	425.0	308.0	282.2	263.3	253.0	249.5	253.0	259.8	258.1
45°	3656.6	2102.8	382.0	283.9	265.0	240.9	227.1	223.7	232.3	246.1	244.3
47.5°	3859.7	2194.0	349.3	268.4	247.8	225.4	208.2	204.8	220.3	239.2	240.9
50°	4062.7	2352.3	337.3	256.4	235.7	209.9	194.4	191.0	208.2	232.3	237.5
52.5°	4296.8	2522.7	328.7	240.9	222.0	197.9	180.7	177.2	196.2	227.1	228.9
55°	4449.9	2667.2	321.8	213.4	196.2	179.0	165.2	163.5	184.1	211.7	218.5
57.5°	4271.0	2465.9	297.7	185.8	166.9	158.3	146.3	146.3	163.5	189.3	194.4
60°	3238.5	1622.7	211.7	149.7	141.1	135.9	130.8	130.8	144.5	163.5	165.2
62.5°	1896.3	874.2	135.9	120.5	120.5	115.3	106.7	106.7	120.5	130.8	132.5
65°	562.7	280.5	110.1	103.2	101.5	92.9	84.3	82.6	92.9	98.1	96.4
67.5°	161.8	129.1	91.2	86.0	84.3	70.6	65.4	63.7	65.4	61.9	60.2
70°	96.4	87.8	70.6	72.3	63.7	51.6	46.5	44.7	41.3	36.1	32.7
72.5°	53.3	53.3	51.6	55.1	44.7	34.4	29.3	24.1	18.9	15.5	13.8
75°	32.7	34.4	36.1	37.9	29.3	22.4	18.9	12.0	6.9	3.4	3.4
77.5°	22.4	24.1	25.8	27.5	24.1	20.6	15.5	8.6	1.7	0.0	0.0
80°	17.2	18.9	22.4	24.1	25.8	27.5	20.6	8.6	1.7	0.0	0.0
82.5°	18.9	20.6	25.8	24.1	24.1	24.1	18.9	8.6	1.7	0.0	0.0
85°	3.4	5.2	8.6	8.6	12.0	15.5	12.0	3.4	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)