

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: P531727

Luminaire Tested: **GALN-SA7A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17720 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

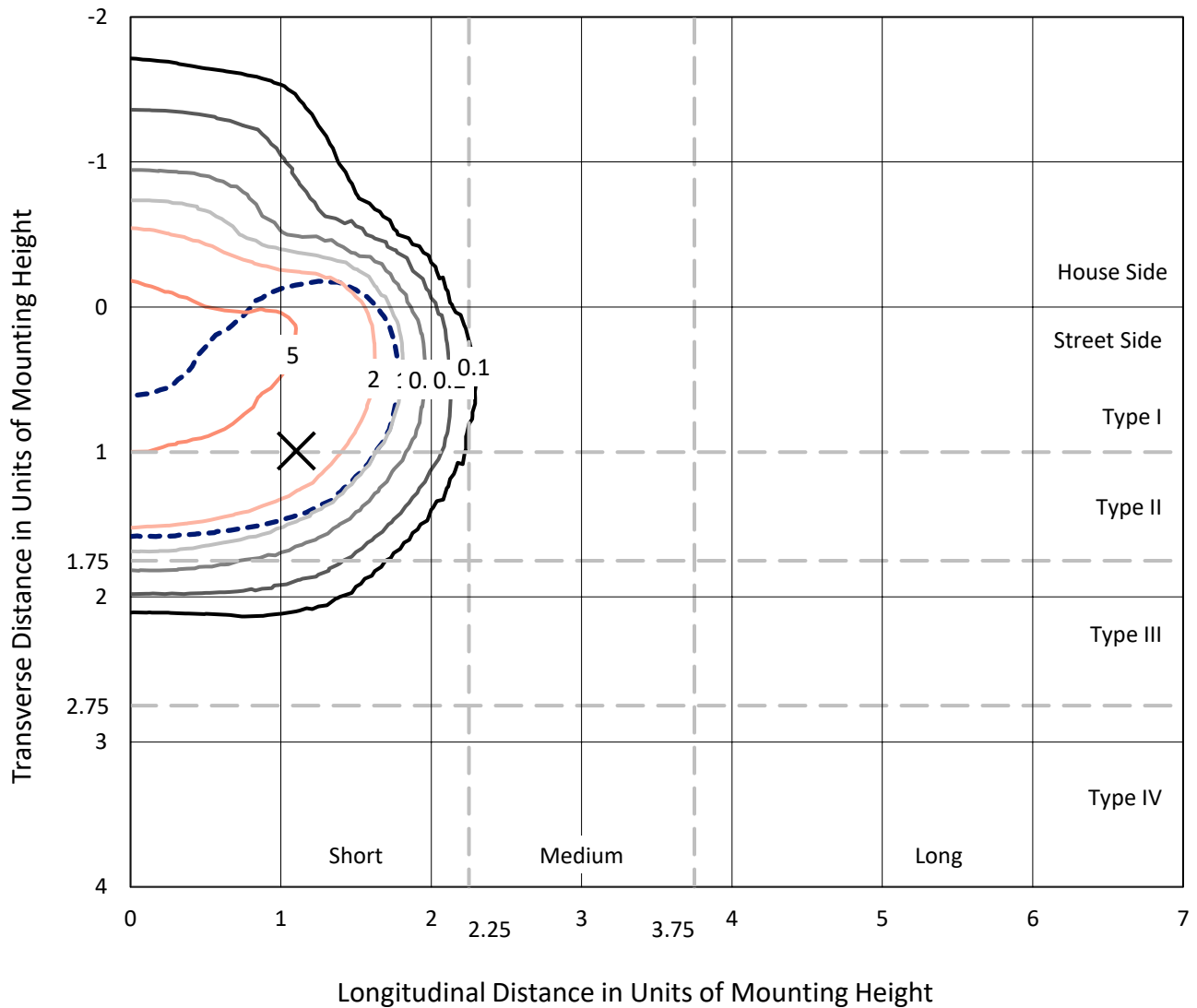
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

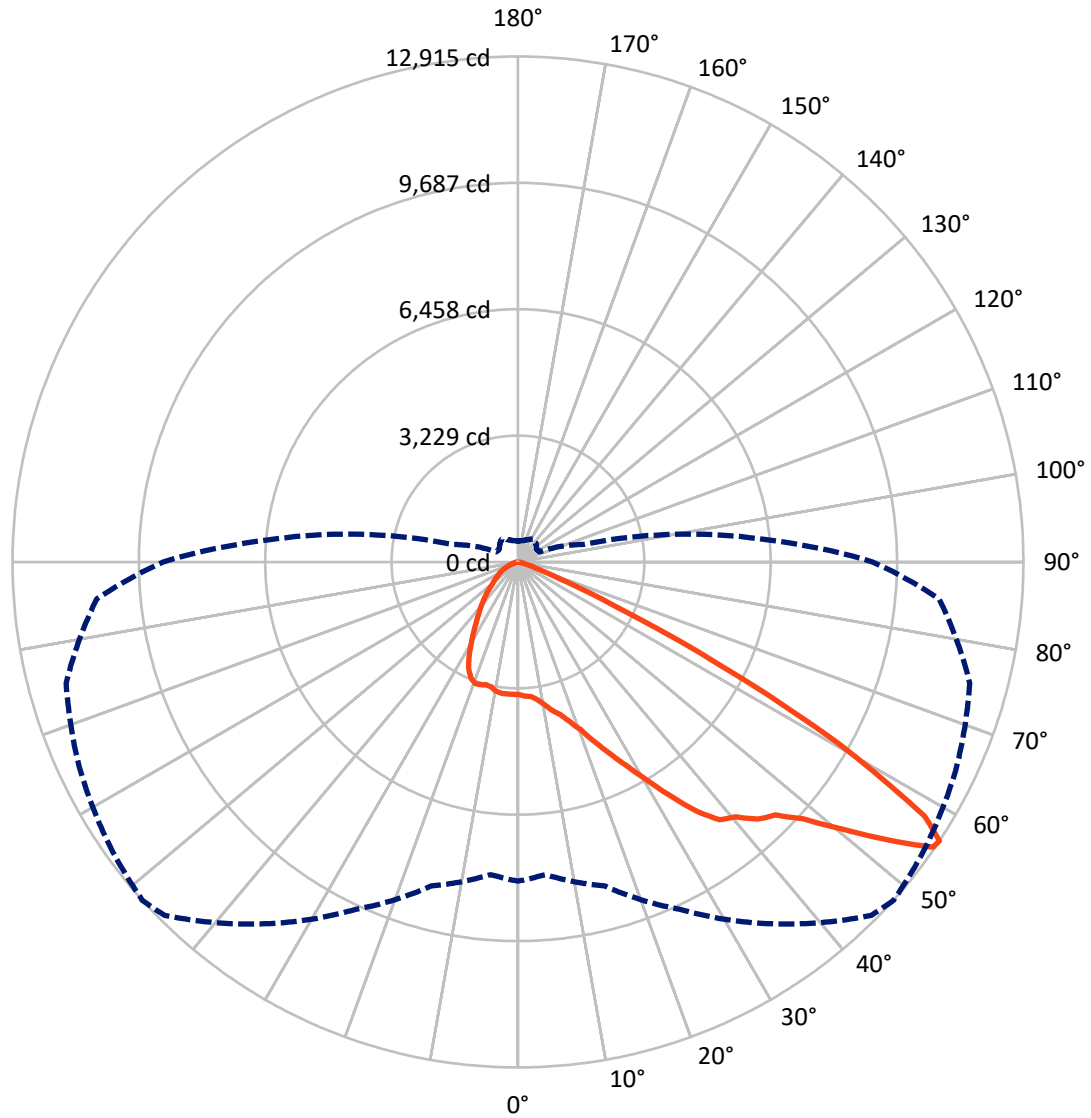
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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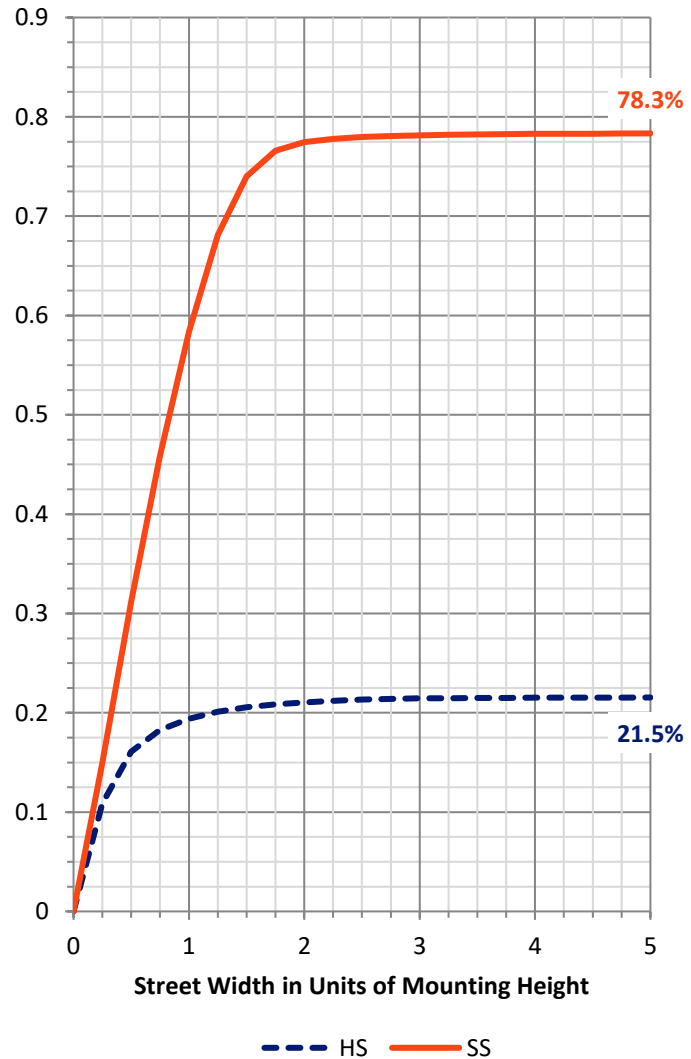
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3853.8	0.0	3853.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13866.2	0.0	13866.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	17720.0	0.0	17720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	1.9
10°-20°	1053.6	5.9
20°-30°	1911.1	10.8
30°-40°	3001.9	16.9
40°-50°	4379.3	24.7
50°-60°	5276.2	29.8
60°-70°	1544.8	8.7
70°-80°	196.0	1.1
80°-90°	27.5	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°	17720.0	100.0
0°-180°	17720.0	100.0

Coefficient of Utilization

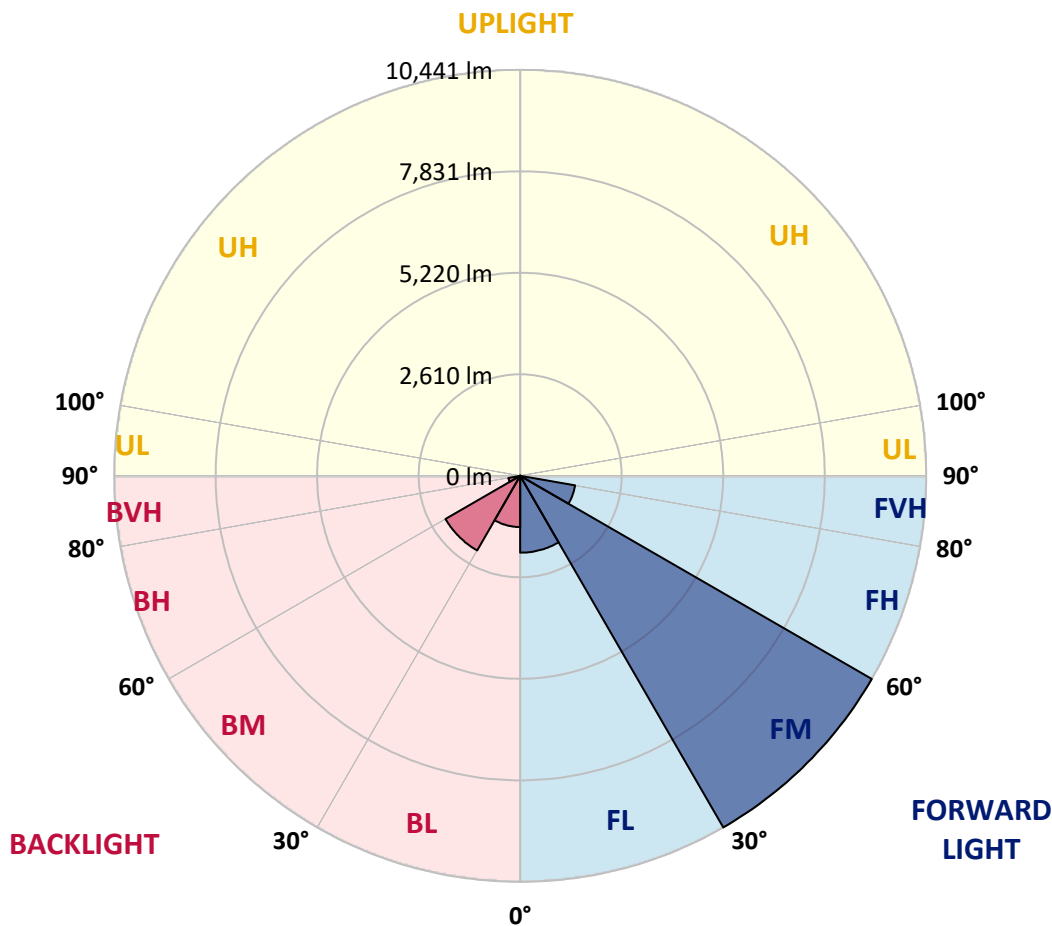


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.2	11.2			
FM (30°-60°)	10440.7	58.9			
FH (60°-80°)	1434.6	8.1			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	1317.2	7.4	B3/2500		
BM (30°-60°)	2216.7	12.5	B2/2500		
BH (60°-80°)	306.2	1.7	B1/500		G1/500
BVH (80°-90°)	13.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5
2.5°	3445.8	3429.7	3429.7	3403.9	3432.9	3420.0	3429.7	3397.4	3429.7	3381.3	3420.0
5°	3462.0	3465.2	3452.3	3468.4	3468.4	3487.8	3455.5	3484.5	3500.7	3465.2	3449.1
7.5°	3545.8	3552.3	3549.1	3536.2	3562.0	3558.8	3555.5	3532.9	3539.4	3526.5	3507.1
10°	3710.4	3707.2	3723.3	3691.0	3671.7	3694.3	3700.7	3665.2	3639.4	3629.7	3568.4
12.5°	3949.2	3910.4	3887.9	3855.6	3865.3	3833.0	3891.1	3829.8	3816.9	3758.8	3697.5
15°	4142.7	4136.3	4139.5	4087.9	4029.8	4042.7	4042.7	4010.5	3991.1	3920.1	3833.0
17.5°	4539.6	4404.1	4433.1	4368.6	4320.2	4317.0	4287.9	4294.4	4242.8	4094.3	3962.1
20°	4849.3	4791.3	4746.1	4636.4	4562.2	4584.8	4571.9	4539.6	4523.5	4329.9	4142.7
22.5°	5126.8	5146.2	5072.0	5042.9	4939.7	4949.3	4975.2	4946.1	4823.5	4623.5	4346.0
25°	5517.2	5494.6	5394.6	5359.1	5262.3	5297.8	5397.8	5375.2	5297.8	4936.4	4504.1
27.5°	5978.6	5901.1	5920.5	5759.2	5665.6	5765.6	5885.0	5997.9	5778.5	5304.3	4691.2
30°	6304.4	6223.8	6217.3	6210.9	6188.3	6304.4	6443.2	6546.4	6369.0	5672.1	5001.0
32.5°	6465.8	6485.1	6540.0	6520.6	6717.4	6956.2	7101.4	7249.8	7027.2	6272.2	5410.7
35°	6894.9	6772.3	6894.9	6907.8	7111.1	7617.6	7801.5	8156.4	8101.6	7120.7	5910.8
37.5°	7146.5	7136.9	7153.0	7275.6	7472.4	8098.3	8359.7	8633.9	8530.7	7630.5	6533.5
40°	7562.8	7588.6	7585.3	7678.9	7895.1	8459.7	8566.2	8788.8	8798.5	8337.1	7449.8
42.5°	8230.6	8127.4	8059.6	8156.4	8459.7	8772.7	8985.6	8940.4	9259.9	9195.3	8627.5
45°	8830.7	8892.0	8792.0	8953.4	9063.0	9230.8	9224.4	9321.2	9727.7	10034.2	9514.7
47.5°	9392.1	9430.9	9479.3	9589.0	9827.7	9853.5	9798.7	9756.7	10318.1	10634.3	10202.0
50°	9727.7	9763.2	9989.0	10185.8	10631.1	10689.2	10721.4	10615.0	10995.7	11031.2	10850.5
52.5°	9637.4	9676.1	9992.3	10640.8	11350.6	11883.0	11786.2	11605.5	11582.9	11721.6	11450.6
55°	8837.2	8801.7	9237.3	10247.1	11576.4	12854.1	12867.0	12676.7	12312.1	12218.5	11360.3
56°	8156.4	8017.7	8572.6	9792.2	11286.1	12770.2	12915.4	12712.1	12370.1	11950.7	10802.1
57.5°	6681.9	6814.2	7365.9	8375.8	10282.6	12166.9	12250.8	12202.4	11944.3	11240.9	9505.1
60°	3684.6	3916.9	4404.1	5639.8	7320.8	9337.3	9405.1	9798.7	9847.1	8608.1	6540.0
62.5°	1564.8	1539.0	2045.6	2955.4	4168.6	5636.6	5762.4	6165.7	6239.9	4962.3	3281.3
65°	635.6	671.1	926.0	1487.4	2203.7	2568.2	2745.7	2878.0	3123.2	2048.8	1209.9
67.5°	419.4	416.2	545.3	848.6	1187.3	1145.4	1145.4	1209.9	1119.6	835.6	522.7
70°	300.1	309.7	390.4	587.2	738.9	548.5	525.9	503.3	571.1	551.7	422.7
72.5°	196.8	209.7	261.3	351.7	383.9	300.1	300.1	361.4	471.1	445.2	345.2
75°	129.1	132.3	161.3	203.3	190.4	154.9	171.0	242.0	342.0	329.1	245.2
77.5°	87.1	90.3	109.7	132.3	106.5	87.1	93.6	122.6	167.8	167.8	129.1
80°	32.3	35.5	45.2	41.9	48.4	61.3	67.8	83.9	100.0	100.0	87.1
82.5°	0.0	3.2	9.7	22.6	35.5	48.4	54.8	64.5	74.2	83.9	80.7
85°	0.0	3.2	9.7	16.1	25.8	29.0	32.3	22.6	19.4	19.4	16.1
87.5°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.5	3.2	3.2
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°	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5
2.5°	3384.5	3381.3	3381.3	3371.6	3391.0	3381.3	3387.8	3384.5	3342.6	3374.8	3352.3
5°	3420.0	3442.6	3407.1	3400.7	3374.8	3384.5	3384.5	3352.3	3381.3	3378.1	3371.6
7.5°	3510.4	3471.6	3432.9	3394.2	3387.8	3378.1	3342.6	3329.7	3352.3	3326.5	3365.2
10°	3549.1	3555.5	3497.5	3445.8	3397.4	3329.7	3281.3	3252.2	3216.8	3255.5	3278.1
12.5°	3726.5	3662.0	3562.0	3481.3	3316.8	3249.0	3200.6	3187.7	3249.0	3261.9	3239.3
15°	3787.8	3778.2	3649.1	3468.4	3297.4	3216.8	3226.4	3200.6	3207.1	3174.8	3181.3
17.5°	3913.7	3804.0	3652.3	3426.5	3294.2	3274.8	3216.8	3113.5	3055.4	3029.6	3052.2
20°	4052.4	3945.9	3726.5	3442.6	3323.2	3271.6	3081.2	2955.4	2836.0	2771.5	2774.7
22.5°	4175.0	4042.7	3694.3	3449.1	3349.0	3136.1	2907.0	2658.6	2510.2	2410.1	2413.4
25°	4323.4	4136.3	3707.2	3462.0	3281.3	2919.9	2590.8	2348.8	2171.4	2103.6	2126.2
27.5°	4407.3	4194.4	3778.2	3491.0	3103.8	2613.4	2258.5	2032.7	1929.4	1897.1	1893.9
30°	4659.0	4323.4	3865.3	3432.9	2807.0	2284.3	1955.2	1816.5	1716.5	1687.4	1693.9
32.5°	5033.2	4558.9	3978.2	3281.3	2503.7	1990.7	1758.4	1655.2	1561.6	1506.7	1500.3
35°	5346.2	4962.3	4097.6	3045.8	2152.0	1764.9	1619.7	1490.6	1348.6	1287.3	1271.2
37.5°	5943.1	5417.2	4071.8	2690.8	1816.5	1597.1	1471.3	1313.2	1190.6	1106.7	1097.0
40°	6736.8	5949.5	3945.9	2258.5	1568.0	1448.7	1313.2	1161.5	1009.9	938.9	932.4
42.5°	7701.5	6601.3	3716.9	1819.7	1319.6	1300.3	1177.6	1003.4	867.9	816.3	819.5
45°	8485.5	7159.5	3484.5	1461.6	1135.7	1155.1	1048.6	884.0	790.5	748.5	748.5
47.5°	9182.4	7536.9	3232.9	1206.7	964.7	1009.9	916.3	819.5	738.9	706.6	700.1
50°	9853.5	7920.9	2981.2	977.6	822.7	867.9	858.2	780.8	716.3	677.6	680.8
52.5°	10273.0	7982.2	2661.8	800.2	719.5	771.1	803.4	732.4	661.4	638.8	632.4
55°	9760.0	7191.7	2064.9	658.2	609.8	677.6	738.9	658.2	603.3	564.6	561.4
56°	9069.5	6430.3	1726.1	606.6	577.5	651.7	716.3	629.2	567.9	545.3	529.1
57.5°	7678.9	5262.3	1274.4	538.8	535.6	606.6	680.8	600.1	529.1	509.8	509.8
60°	4788.0	2961.9	771.1	451.7	464.6	538.8	613.0	535.6	471.1	471.1	480.7
62.5°	2181.1	1232.5	467.8	383.9	400.1	464.6	545.3	484.0	448.5	484.0	490.4
65°	742.1	532.4	338.8	306.5	316.2	383.9	467.8	490.4	487.2	509.8	522.7
67.5°	416.2	342.0	283.9	254.9	248.4	283.9	383.9	490.4	471.1	461.4	467.8
70°	351.7	290.4	251.7	225.9	216.2	229.1	296.8	371.0	332.3	322.6	316.2
72.5°	283.9	242.0	219.4	203.3	174.2	148.4	135.5	142.0	158.1	167.8	183.9
75°	200.0	183.9	183.9	164.5	125.8	93.6	74.2	61.3	41.9	29.0	32.3
77.5°	112.9	112.9	116.2	100.0	80.7	61.3	45.2	32.3	16.1	6.5	3.2
80°	77.4	83.9	90.3	80.7	67.8	54.8	38.7	22.6	9.7	0.0	0.0
82.5°	77.4	87.1	93.6	80.7	67.8	51.6	38.7	22.6	9.7	3.2	0.0
85°	16.1	19.4	22.6	25.8	38.7	38.7	29.0	19.4	9.7	3.2	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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)