

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: P533928

Luminaire Tested: **GALN-SA9B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32081 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

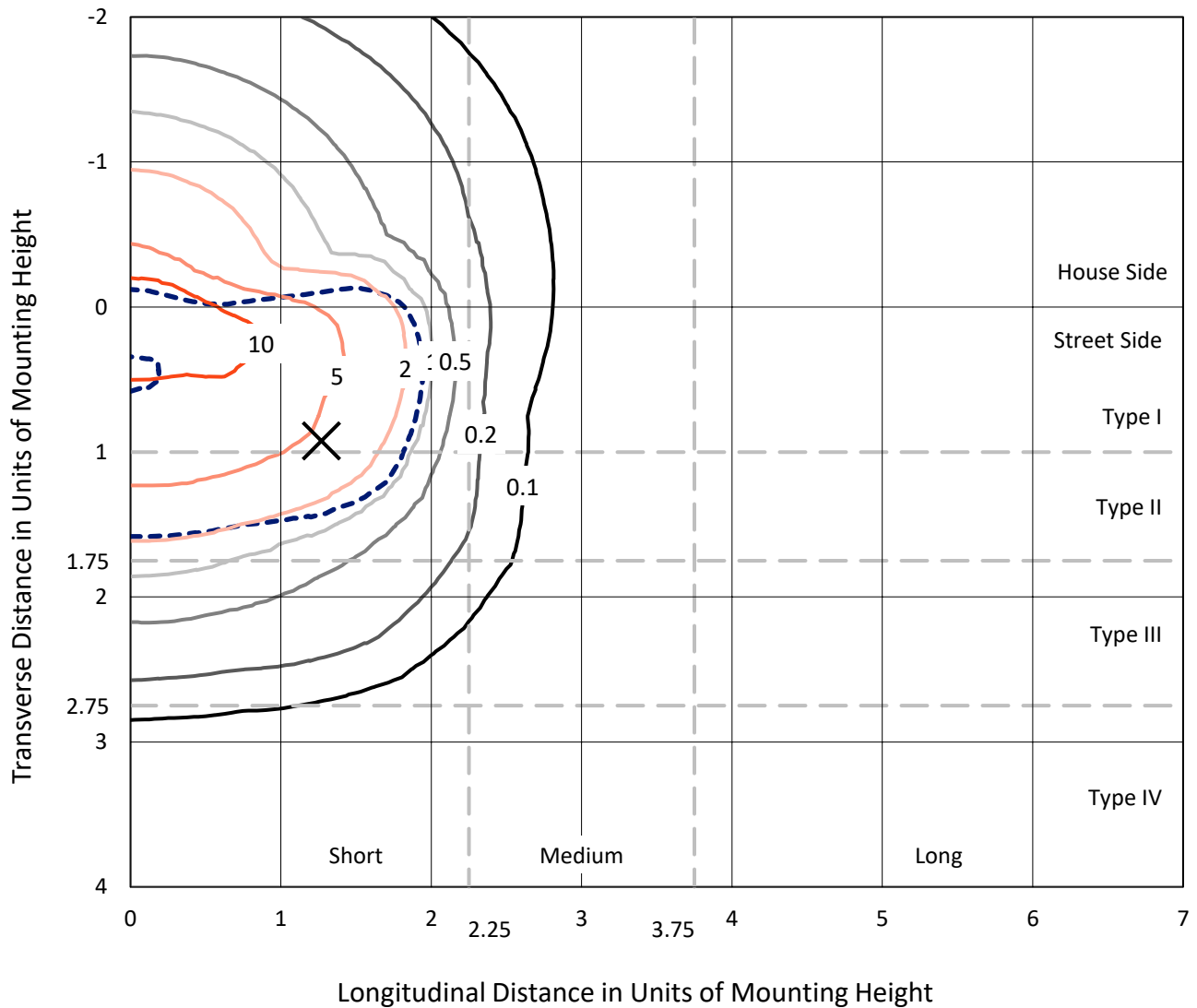
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

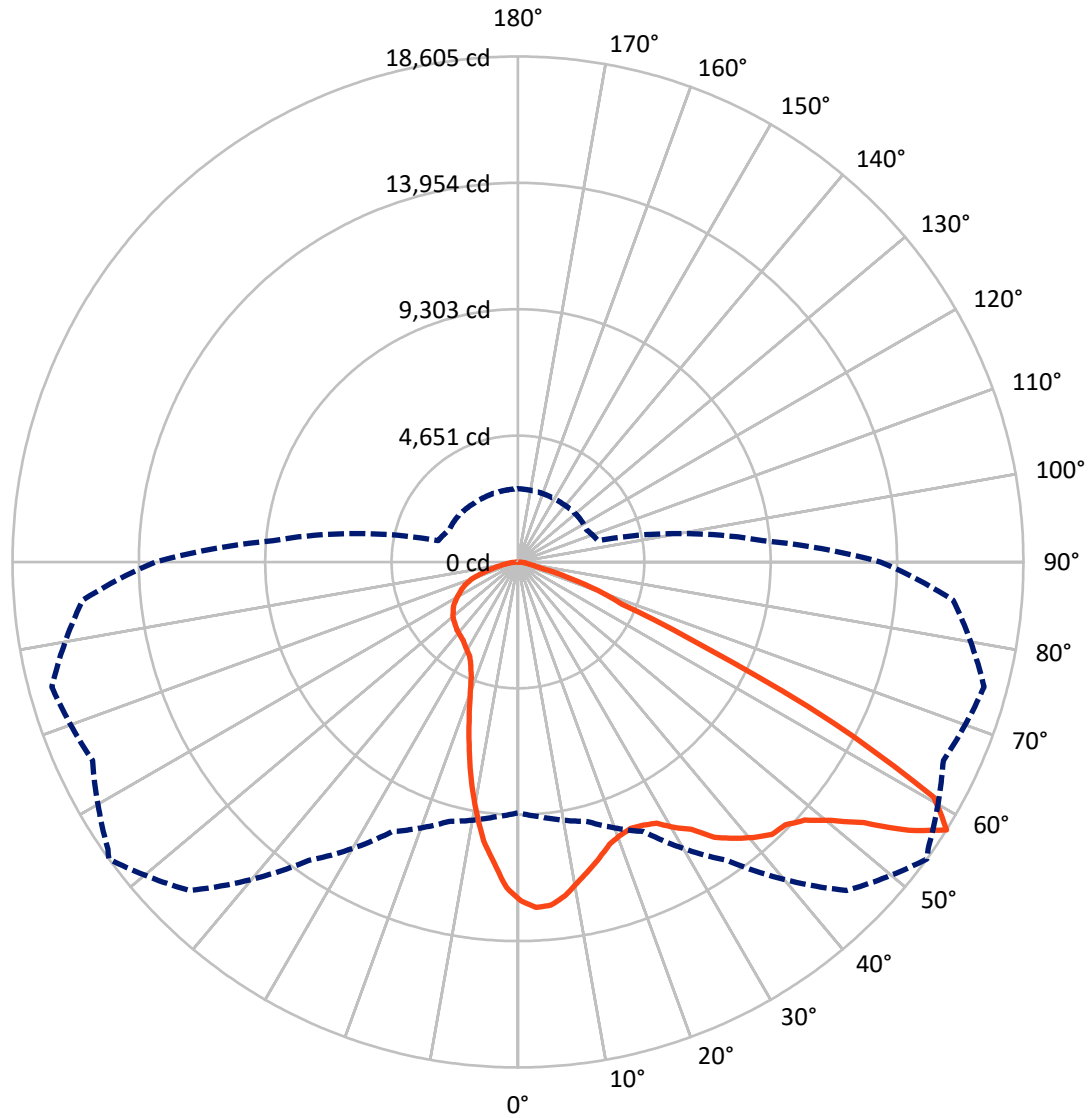
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 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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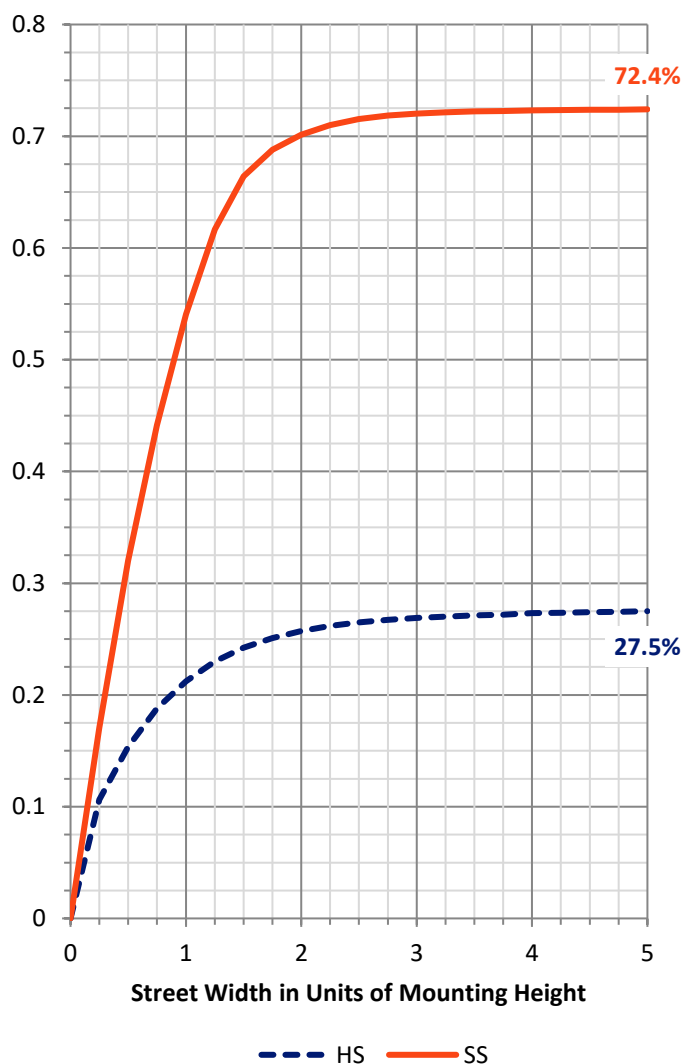
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8875.4	0.0	8875.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23205.6	0.0	23205.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	32081.0	0.0	32081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.4	3.4
10°-20°	2489.9	7.8
20°-30°	3498.3	10.9
30°-40°	4890.7	15.2
40°-50°	6621.1	20.6
50°-60°	8064.7	25.1
60°-70°	4200.5	13.1
70°-80°	1076.3	3.4
80°-90°	164.2	0.5
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°	32081.0	100.0
0°-180°	32081.0	100.0

Coefficient of Utilization



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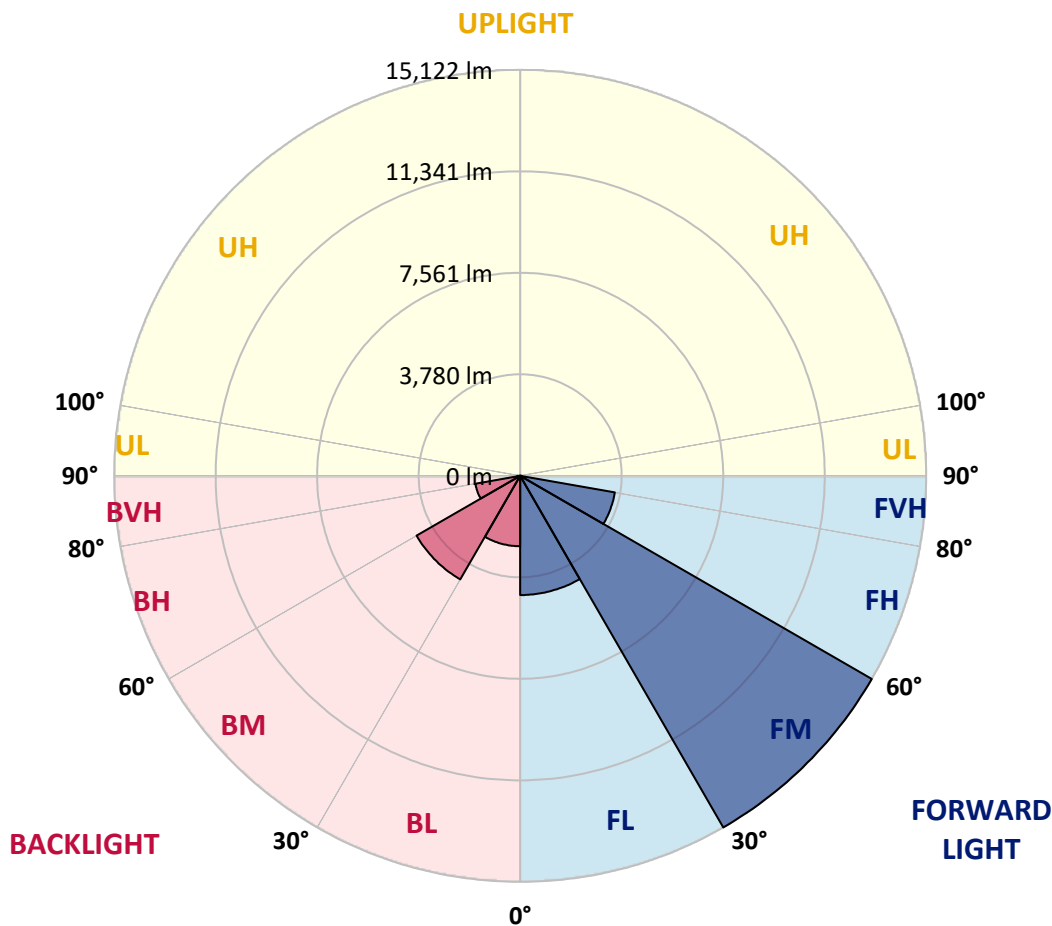
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4440.4	13.8			
FM (30°-60°)	15122.0	47.1			
FH (60°-80°)	3581.1	11.2			G2/5000
FVH (80°-90°)	62.0	0.2			G1/100
BL (0°-30°)	2623.1	8.2	B4/5000		
BM (30°-60°)	4454.5	13.9	B3/5000		
BH (60°-80°)	1695.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5
2.5°	12824.1	12774.7	12782.9	12848.9	12766.4	12733.4	12733.4	12572.6	12585.0	12473.6	12444.8
5°	12527.2	12411.8	12490.1	12589.1	12605.6	12638.6	12692.2	12651.0	12535.5	12415.9	12222.1
7.5°	11752.0	11855.1	11884.0	11954.1	12102.5	12238.6	12407.7	12292.2	12288.1	12168.5	12053.0
10°	11071.6	11009.8	11166.5	11269.6	11517.0	11743.8	12003.6	11991.2	12053.0	11917.0	11719.0
12.5°	10395.4	10345.9	10420.1	10655.2	11001.5	11331.4	11640.7	11525.2	11855.1	11830.4	11405.6
15°	9677.9	9715.0	9822.2	10040.8	10494.4	10890.2	11281.9	11286.1	11578.8	11677.8	11108.8
17.5°	9174.8	9133.6	9269.7	9595.4	9999.5	10473.7	10919.1	11009.8	11459.3	11517.0	11018.0
20°	8799.6	8857.3	9034.6	9199.6	9665.5	10238.7	10741.8	10774.8	11434.5	11591.2	10873.7
22.5°	8708.9	8675.9	8733.6	9001.6	9385.1	10007.8	10646.9	10770.6	11430.4	11566.5	10601.6
25°	8614.0	8721.2	8717.1	8985.1	9265.5	9822.2	10725.3	10861.3	11648.9	11694.3	10638.7
27.5°	8828.5	8816.1	8931.5	8952.2	9298.5	9871.7	10890.2	10993.3	12011.8	11974.7	10667.5
30°	9042.9	8981.0	9051.1	9294.4	9455.2	10156.2	11343.8	11335.5	12481.9	12457.1	10758.3
32.5°	9306.8	9277.9	9323.3	9537.7	9809.8	10535.6	11727.3	11970.6	12960.2	13116.9	11071.6
35°	9356.3	9475.8	9583.1	9871.7	10259.3	11150.0	12448.9	12651.0	13512.8	14003.5	11669.6
37.5°	9669.6	9715.0	9966.5	10477.9	10832.5	11970.6	12906.6	13034.4	14015.8	14572.5	12300.5
40°	10003.7	10057.3	10436.6	10972.7	11459.3	12506.6	13335.5	13376.7	14176.7	15009.6	12712.8
42.5°	10457.2	10506.7	10882.0	11554.1	12205.6	12964.3	13714.8	13760.2	14164.3	15512.7	13368.4
45°	10927.3	11046.9	11488.1	12251.0	12836.5	13500.4	13801.4	13987.0	14279.7	15962.1	13900.4
47.5°	11587.1	11698.4	12061.3	12807.6	13492.1	13970.5	14201.4	14382.8	14556.0	16353.9	14242.6
50°	12288.1	12308.7	12749.9	13426.2	13929.2	14502.4	14947.8	15009.6	14918.9	16807.5	14824.0
52.5°	12803.5	12869.5	13211.8	13871.5	14622.0	15327.1	15937.4	16003.4	15826.1	16976.5	15022.0
55°	11950.0	11912.8	12469.5	13347.8	15088.0	16555.9	17442.5	17492.0	16485.8	17500.2	15669.4
57.5°	9236.7	9414.0	9888.2	10947.9	13405.6	17100.2	18605.3	18428.0	17277.5	17764.1	16081.7
60°	6713.1	6671.9	6989.4	7698.6	10102.6	14737.5	17590.9	17772.4	16630.1	16011.6	13261.2
62.5°	5467.8	5410.1	5434.8	5459.5	6519.3	9781.0	13022.1	13017.9	12807.6	11508.7	8943.9
65°	4370.9	4507.0	4519.4	4704.9	4841.0	5843.0	7546.0	7950.1	6923.4	5678.1	4119.4
67.5°	3294.7	3245.2	3410.1	4069.9	4325.6	4218.4	4119.4	4164.8	2960.7	2136.0	2012.3
70°	1942.2	1921.6	2119.5	2837.0	3562.7	3352.4	3105.0	3109.1	2032.9	1492.7	1661.8
72.5°	1063.9	1059.7	1101.0	1439.1	2024.6	2103.0	1863.8	1921.6	1212.3	1208.2	1298.9
75°	593.8	581.4	569.0	635.0	729.9	771.1	787.6	795.8	833.0	931.9	969.0
77.5°	218.5	210.3	210.3	243.3	309.3	387.6	490.7	498.9	589.7	676.3	713.4
80°	74.2	82.5	111.3	152.6	206.2	276.3	334.0	342.3	416.5	474.2	486.6
82.5°	45.4	49.5	74.2	107.2	148.4	193.8	247.4	251.5	309.3	346.4	362.9
85°	20.6	24.7	41.2	66.0	94.8	127.8	132.0	132.0	127.8	132.0	123.7
87.5°	0.0	0.0	8.2	8.2	8.2	12.4	16.5	12.4	20.6	24.7	24.7
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°	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5	12469.5
2.5°	12358.2	12312.8	12172.6	12048.9	12011.8	11846.9	11603.6	11632.4	11455.1	11537.6	11451.0
5°	12189.1	12036.5	11677.8	11525.2	11125.3	10943.8	10820.1	10510.8	10366.5	10337.7	10214.0
7.5°	11756.1	11661.3	11211.8	10799.5	10374.8	10011.9	9545.9	9228.4	9001.6	8939.8	8758.4
10°	11413.9	11203.6	10580.9	9954.2	9348.0	8717.1	8111.0	7636.8	7405.8	7137.8	7047.1
12.5°	11075.8	10758.3	9917.1	9113.0	8329.5	7533.7	6799.7	6222.4	5719.3	5599.7	5558.5
15°	10865.5	10312.9	9323.3	8354.2	7240.9	6201.8	5467.8	5088.4	4779.2	4651.3	4742.0
17.5°	10589.2	9945.9	8754.2	7463.6	6238.9	5282.2	4667.8	4432.8	4321.4	4333.8	4296.7
20°	10242.8	9599.5	8007.9	6655.4	5344.1	4581.2	4230.7	4144.1	4160.6	4189.5	4177.1
22.5°	9995.4	9179.0	7467.7	5830.7	4618.3	4193.6	4049.3	3987.4	4041.0	4065.8	4045.2
25°	9805.7	8820.2	6812.1	5100.8	4197.7	3975.1	3909.1	3905.0	3987.4	4020.4	3999.8
27.5°	9632.5	8486.2	6160.5	4544.1	3917.3	3806.0	3785.4	3834.9	3888.5	3921.5	3950.3
30°	9529.4	8230.5	5550.3	4078.2	3777.1	3723.5	3686.4	3731.8	3760.6	3793.6	3777.1
32.5°	9628.4	8049.1	4960.6	3814.3	3661.7	3608.1	3657.6	3628.7	3678.2	3707.0	3661.7
35°	9937.7	7888.3	4540.0	3674.1	3529.7	3550.3	3558.6	3546.2	3566.8	3542.1	3595.7
37.5°	10242.8	7830.6	4152.4	3554.5	3467.9	3467.9	3459.6	3434.9	3476.1	3467.9	3492.6
40°	10630.4	7867.7	3822.5	3426.6	3410.1	3401.9	3368.9	3364.8	3348.3	3352.4	3360.7
42.5°	10968.6	7950.1	3632.8	3344.2	3356.5	3373.0	3311.2	3261.7	3282.3	3241.1	3241.1
45°	11327.3	8024.4	3463.8	3286.4	3274.1	3269.9	3220.5	3191.6	3175.1	3179.2	3216.3
47.5°	11892.2	8131.6	3335.9	3208.1	3216.3	3154.5	3142.1	3105.0	3121.5	3146.2	3150.4
50°	12292.2	8358.4	3237.0	3117.4	3146.2	3105.0	3030.8	3014.3	3014.3	3055.5	3047.3
52.5°	12572.6	8675.9	3142.1	3018.4	3030.8	2997.8	2973.1	2935.9	2911.2	2968.9	2997.8
55°	13430.3	9203.7	3117.4	2935.9	2931.8	2898.8	2853.5	2816.4	2804.0	2812.2	2870.0
57.5°	13347.8	9038.8	3039.0	2791.6	2783.4	2738.0	2692.7	2680.3	2676.2	2684.4	2700.9
60°	10836.6	6676.0	2713.3	2626.7	2614.3	2606.1	2560.7	2511.2	2486.5	2511.2	2490.6
62.5°	7170.8	4469.9	2391.6	2428.8	2437.0	2416.4	2342.2	2292.7	2300.9	2329.8	2284.4
65°	3521.5	2626.7	2169.0	2267.9	2276.2	2218.5	2148.4	2090.6	2061.8	2086.5	2065.9
67.5°	2012.3	2008.2	1987.5	2090.6	2086.5	2028.8	1917.4	1868.0	1818.5	1826.7	1814.3
70°	1707.1	1740.1	1781.4	1843.2	1839.1	1773.1	1641.2	1604.0	1533.9	1525.7	1505.1
72.5°	1344.3	1402.0	1492.7	1538.1	1501.0	1418.5	1331.9	1270.0	1208.2	1171.1	1183.4
75°	997.9	1080.4	1129.8	1158.7	1101.0	1055.6	985.5	911.3	837.1	804.1	791.7
77.5°	725.7	750.5	795.8	816.5	779.3	734.0	692.8	618.5	548.4	503.1	490.7
80°	507.2	523.7	556.7	556.7	556.7	536.1	482.5	408.2	362.9	321.6	313.4
82.5°	354.6	371.1	404.1	387.6	383.5	358.7	325.8	268.0	218.5	189.7	181.4
85°	123.7	136.1	164.9	197.9	210.3	206.2	185.6	148.4	115.5	94.8	86.6
87.5°	28.9	28.9	33.0	28.9	28.9	33.0	28.9	28.9	28.9	20.6	16.5
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)