

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: P533364

Luminaire Tested: **GALN-SA8D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51136 lumens
Efficiency: N/A
Efficacy: 103.7 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

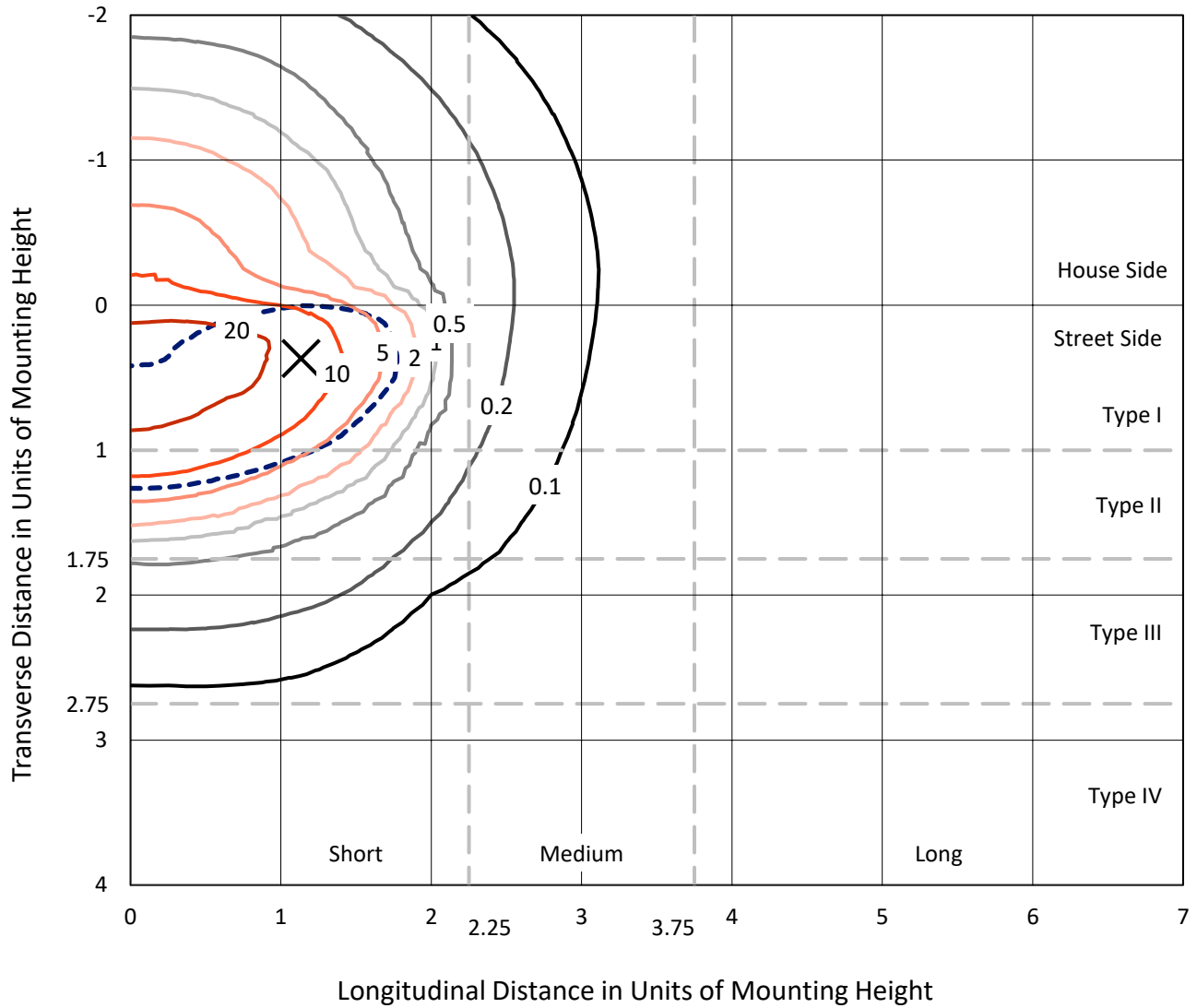
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

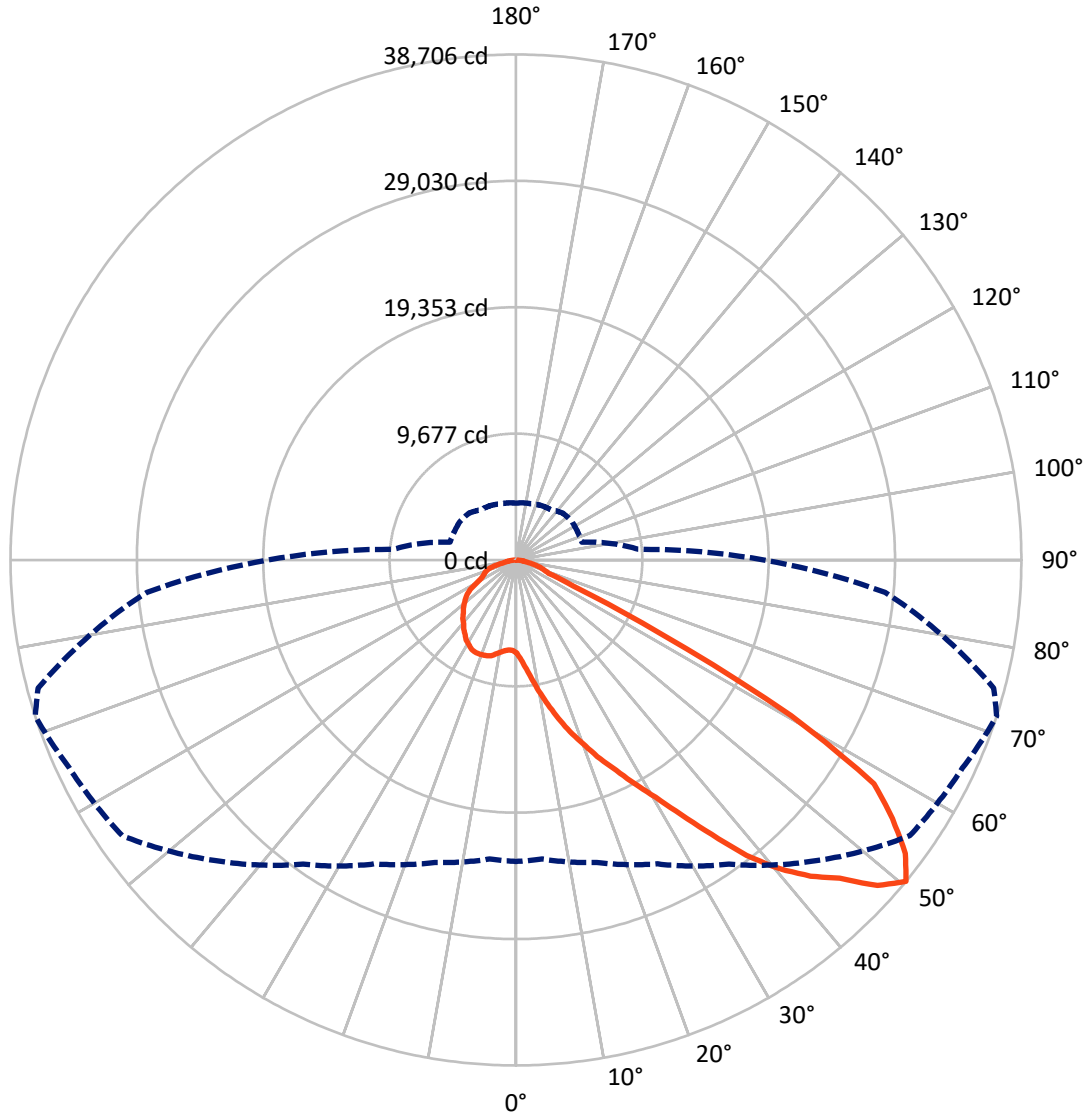
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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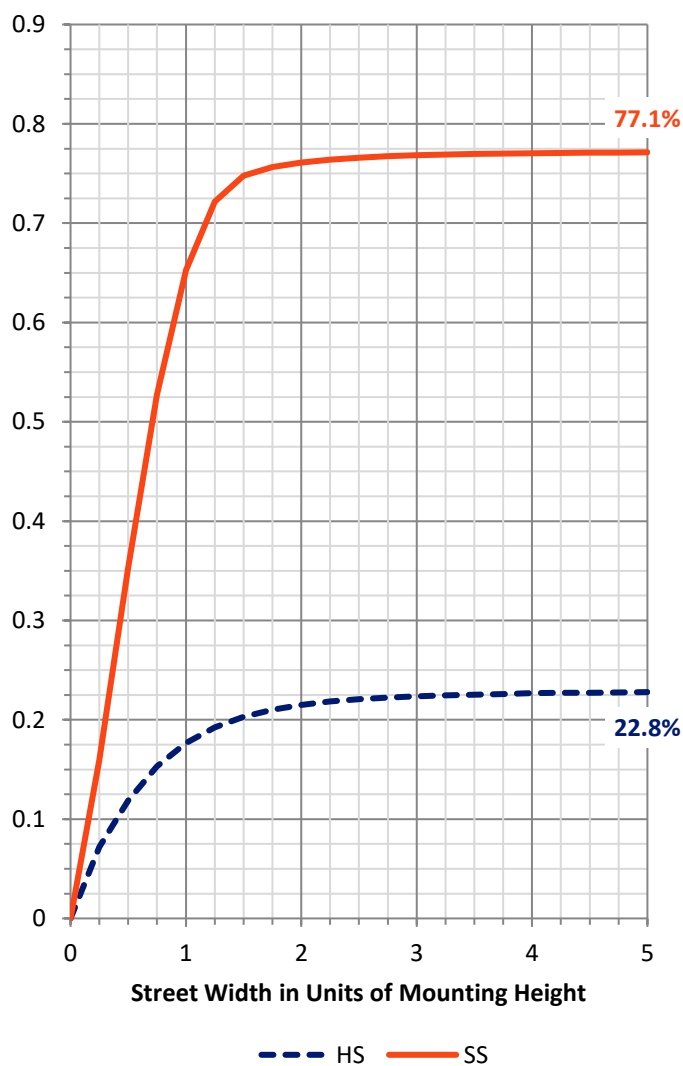
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11715.6	0.0	11715.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39420.4	0.0	39420.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	51136.0	0.0	51136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.3	1.6
10°-20°	3130.2	6.1
20°-30°	6069.2	11.9
30°-40°	10054.6	19.7
40°-50°	14068.6	27.5
50°-60°	11868.7	23.2
60°-70°	3617.6	7.1
70°-80°	1269.1	2.5
80°-90°	220.7	0.4
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°	51136.0	100.0
0°-180°	51136.0	100.0

Coefficient of Utilization

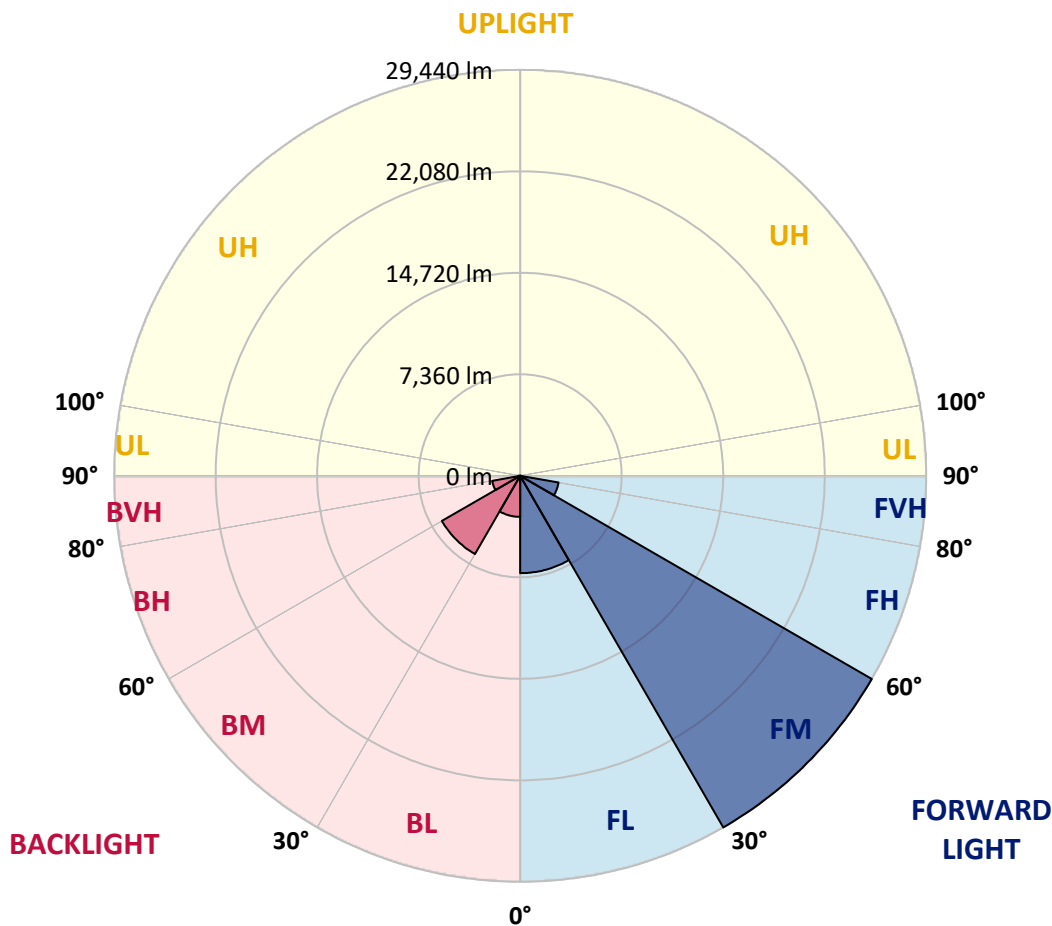


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7058.6	13.8			
FM (30°-60°)	29440.4	57.6			
FH (60°-80°)	2822.6	5.5			G2/5000
FVH (80°-90°)	98.8	0.2			G1/100
BL (0°-30°)	2978.1	5.8	B4/5000		
BM (30°-60°)	6551.5	12.8	B4/8500		
BH (60°-80°)	2064.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	121.8	0.2			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°	55°	65°	72°	75°	85°
0°	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6
2.5°	9156.1	9099.1	8928.3	8871.3	8668.8	8301.8	8175.3	7801.9	7643.8	7498.2	7327.4
5°	11579.5	11313.8	11294.8	10972.1	10503.8	10231.8	9421.8	8877.6	8377.8	8124.7	7656.4
7.5°	13123.5	13129.8	13129.8	12864.0	12490.7	11801.0	11073.3	10092.5	9339.6	8966.2	8169.0
10°	14591.5	14464.9	14395.3	14370.0	14116.9	13446.2	12667.9	11453.0	10421.6	9985.0	8554.9
12.5°	15629.2	15521.6	15679.8	15597.6	15414.1	14977.5	14243.5	12857.7	11566.9	10978.4	9175.0
15°	16122.8	16198.7	16325.2	16553.0	16470.8	16306.3	15496.3	14300.4	12800.8	12136.4	9725.5
17.5°	16882.1	16673.3	16825.1	17109.9	17337.7	17261.7	16799.8	15344.5	14022.0	13205.7	10465.9
20°	17413.6	17293.4	17369.3	17698.3	17869.2	18299.5	18059.0	16711.2	15192.6	14332.0	11339.1
22.5°	18932.2	18755.1	18508.3	18558.9	18622.2	18925.9	18982.8	18210.9	16553.0	15641.9	12168.0
25°	20805.2	20640.7	20349.6	20052.2	19868.7	19811.8	20007.9	19387.8	17856.5	16913.7	13060.2
27.5°	22868.0	22589.6	22406.1	21792.3	21298.8	21222.8	21127.9	20792.5	19400.5	18381.7	14066.3
30°	24873.9	24652.4	24405.6	23424.8	22912.3	22830.0	22361.8	22456.7	21077.3	19944.6	15205.3
32.5°	26392.5	26411.5	25848.3	25108.0	24627.1	24190.5	24019.6	24291.7	23228.7	22317.5	16477.1
35°	27620.0	27677.0	27139.1	26468.4	25949.6	26253.3	26177.3	26303.9	25797.7	24684.0	17957.8
37.5°	28816.0	28531.2	27955.4	27632.7	27360.6	27860.5	28505.9	28613.5	28708.4	27398.6	19678.9
40°	29012.1	29037.4	28702.1	28929.9	28588.2	29341.2	30840.8	30701.6	31087.6	29942.3	21545.5
42.5°	28733.7	28790.6	28923.5	29246.2	30068.8	30973.7	33201.0	32631.5	33099.8	32081.0	23361.6
45°	28278.1	28044.0	28208.5	29436.1	30859.8	32872.0	35358.7	34915.8	34763.9	33909.7	25525.6
47.5°	26101.4	26341.9	26854.4	28366.7	30505.4	33201.0	36890.0	36788.8	37244.3	36643.2	27493.5
50°	23083.1	22988.2	23975.3	25677.5	28436.3	32555.6	36807.7	37725.2	38706.0	37870.8	28373.0
52.5°	17287.0	17793.3	18641.2	20754.6	24690.4	29037.4	35010.7	36542.0	37339.3	37162.1	27664.3
55°	10927.8	11079.7	11592.2	14104.3	17647.7	23304.6	30011.9	33561.7	34985.4	35649.8	27012.6
57.5°	5308.9	5024.1	5650.6	7669.1	10193.8	15673.5	23146.4	29233.6	32327.8	33530.0	25595.2
60°	2771.5	2879.1	3125.8	3847.2	5270.9	8137.3	14427.0	19482.7	24209.5	26057.1	19400.5
62.5°	2296.9	2334.9	2499.4	2860.1	3505.5	4682.4	7365.3	9497.8	12345.2	14009.3	11035.4
65°	1948.9	1967.9	2145.1	2385.5	2796.8	3296.7	3790.2	3967.4	4802.7	4929.2	3923.1
67.5°	1626.2	1645.2	1835.0	2062.8	2328.6	2461.4	2588.0	2575.3	2670.3	2632.3	2626.0
70°	1252.9	1271.9	1468.0	1708.5	1841.3	1765.4	2157.7	2246.3	2284.3	2315.9	2366.5
72.5°	904.8	942.8	1094.7	1265.5	1195.9	1373.1	1778.1	1910.9	1961.6	1980.5	2043.8
75°	658.1	670.7	708.7	658.1	759.3	955.5	1252.9	1417.4	1480.7	1499.6	1594.6
77.5°	291.1	297.4	303.7	379.7	487.2	594.8	746.7	879.5	968.1	993.4	1018.7
80°	151.9	158.2	196.2	259.4	348.0	436.6	544.2	620.1	677.1	683.4	708.7
82.5°	94.9	101.2	139.2	183.5	246.8	322.7	398.6	461.9	506.2	512.5	518.9
85°	44.3	56.9	82.3	113.9	164.5	208.8	215.1	183.5	196.2	202.5	189.8
87.5°	12.7	19.0	25.3	19.0	25.3	25.3	31.6	38.0	38.0	38.0	44.3
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°	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6
2.5°	7232.5	7175.5	6954.0	6871.8	6656.7	6694.6	6580.7	6574.4	6549.1	6542.8	6536.4
5°	7409.6	7232.5	6966.7	6764.2	6644.0	6631.3	6549.1	6549.1	6574.4	6593.4	6549.1
7.5°	7700.7	7498.2	7049.0	6859.1	6751.6	6732.6	6675.6	6631.3	6688.3	6669.3	6618.7
10°	8036.1	7681.7	7207.2	7042.6	6865.5	6821.2	6821.2	6840.2	6745.2	6776.9	6726.3
12.5°	8409.4	7934.8	7409.6	7219.8	7011.0	6985.7	6973.0	6833.8	6884.4	6859.1	6732.6
15°	8884.0	8225.9	7669.1	7346.4	7169.2	7055.3	6890.8	6865.5	6833.8	6770.5	6713.6
17.5°	9396.5	8542.3	7789.3	7384.3	7118.6	7036.3	6909.8	6776.9	6682.0	6694.6	6650.3
20°	9833.1	8833.4	7833.6	7422.3	7080.6	6922.4	6726.3	6644.0	6542.8	6536.4	6530.1
22.5°	10352.0	9225.7	7896.9	7321.1	6966.7	6802.2	6669.3	6523.8	6454.2	6365.6	6409.9
25°	10972.1	9377.5	7909.5	7264.1	6884.4	6593.4	6523.8	6365.6	6340.3	6213.7	6239.0
27.5°	11421.3	9459.8	7808.3	7086.9	6694.6	6473.2	6346.6	6232.7	6188.4	6093.5	6068.2
30°	12022.5	9586.3	7593.1	6865.5	6504.8	6258.0	6182.1	6156.8	6030.2	5929.0	5916.3
32.5°	12705.9	9668.6	7453.9	6637.7	6308.6	6118.8	6156.8	6036.5	5878.4	5789.8	5764.5
35°	13250.0	9700.2	7105.9	6378.2	6175.8	6055.5	6011.2	5985.9	5758.1	5675.9	5612.6
37.5°	14078.9	9630.6	6814.8	6194.7	6030.2	5985.9	5948.0	5777.1	5517.7	5397.5	5308.9
40°	15047.1	9611.6	6441.5	5935.3	5891.0	5941.6	5827.7	5562.0	5201.3	5068.4	5005.1
42.5°	15977.2	9744.5	6207.4	5796.1	5739.1	5758.1	5599.9	5201.3	5024.1	4948.2	4847.0
45°	17533.8	10022.9	5821.4	5581.0	5555.6	5543.0	5353.2	4935.5	4834.3	4739.4	4720.4
47.5°	18938.6	9839.4	5574.6	5359.5	5384.8	5315.2	4910.2	4777.3	4663.5	4568.5	4536.9
50°	19020.8	9402.8	5226.6	5188.6	5195.0	5074.7	4688.8	4600.2	4454.6	4391.4	4347.1
52.5°	18590.5	8687.8	4903.9	4916.6	4935.5	4739.4	4416.7	4353.4	4233.2	4144.6	4119.3
55°	17382.0	7574.2	4587.5	4638.1	4688.8	4315.4	4214.2	4056.0	3961.1	3834.5	3840.9
57.5°	15312.8	6099.8	4144.6	4226.8	4334.4	3923.1	3847.2	3651.0	3511.8	3410.6	3397.9
60°	10263.4	4340.7	3480.2	3511.8	3752.3	3587.8	3581.4	3385.3	3195.4	3106.9	3056.2
62.5°	6055.5	3315.7	3005.6	2974.0	2967.7	3062.6	3220.8	3151.2	2904.4	2733.5	2784.2
65°	3170.1	2866.4	2796.8	2689.2	2626.0	2600.6	2720.9	2752.5	2588.0	2404.5	2391.8
67.5°	2663.9	2663.9	2607.0	2569.0	2480.4	2372.9	2296.9	2195.7	2170.4	2119.8	2056.5
70°	2423.5	2486.8	2467.8	2379.2	2303.3	2183.0	1986.9	1822.4	1664.2	1607.2	1645.2
72.5°	2113.4	2176.7	2176.7	2132.4	2031.2	1847.7	1657.8	1468.0	1335.1	1233.9	1221.2
75°	1626.2	1657.8	1733.8	1683.1	1550.3	1436.4	1240.2	1044.1	917.5	822.6	803.6
77.5°	1037.7	1088.3	1088.3	1082.0	987.1	879.5	753.0	613.8	518.9	449.3	430.3
80°	689.7	721.3	746.7	721.3	658.1	575.8	480.9	386.0	316.4	259.4	246.8
82.5°	506.2	544.2	563.2	537.8	474.6	411.3	341.7	272.1	202.5	158.2	145.5
85°	196.2	202.5	227.8	272.1	265.8	259.4	208.8	151.9	113.9	82.3	75.9
87.5°	50.6	44.3	50.6	50.6	44.3	38.0	38.0	38.0	38.0	19.0	25.3
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)