

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: P648663

Luminaire Tested: **GALN-SA9B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23826.7 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

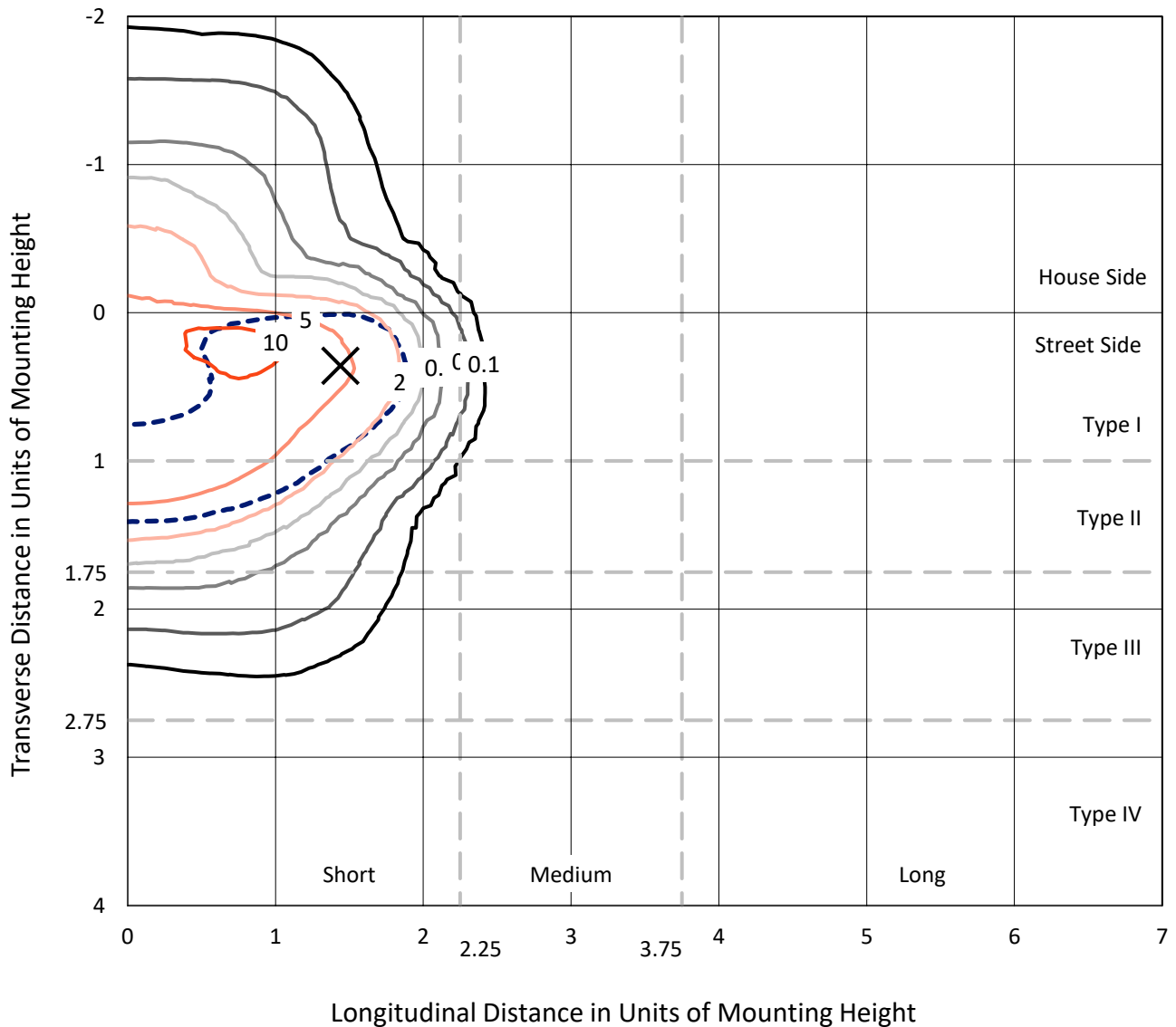
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

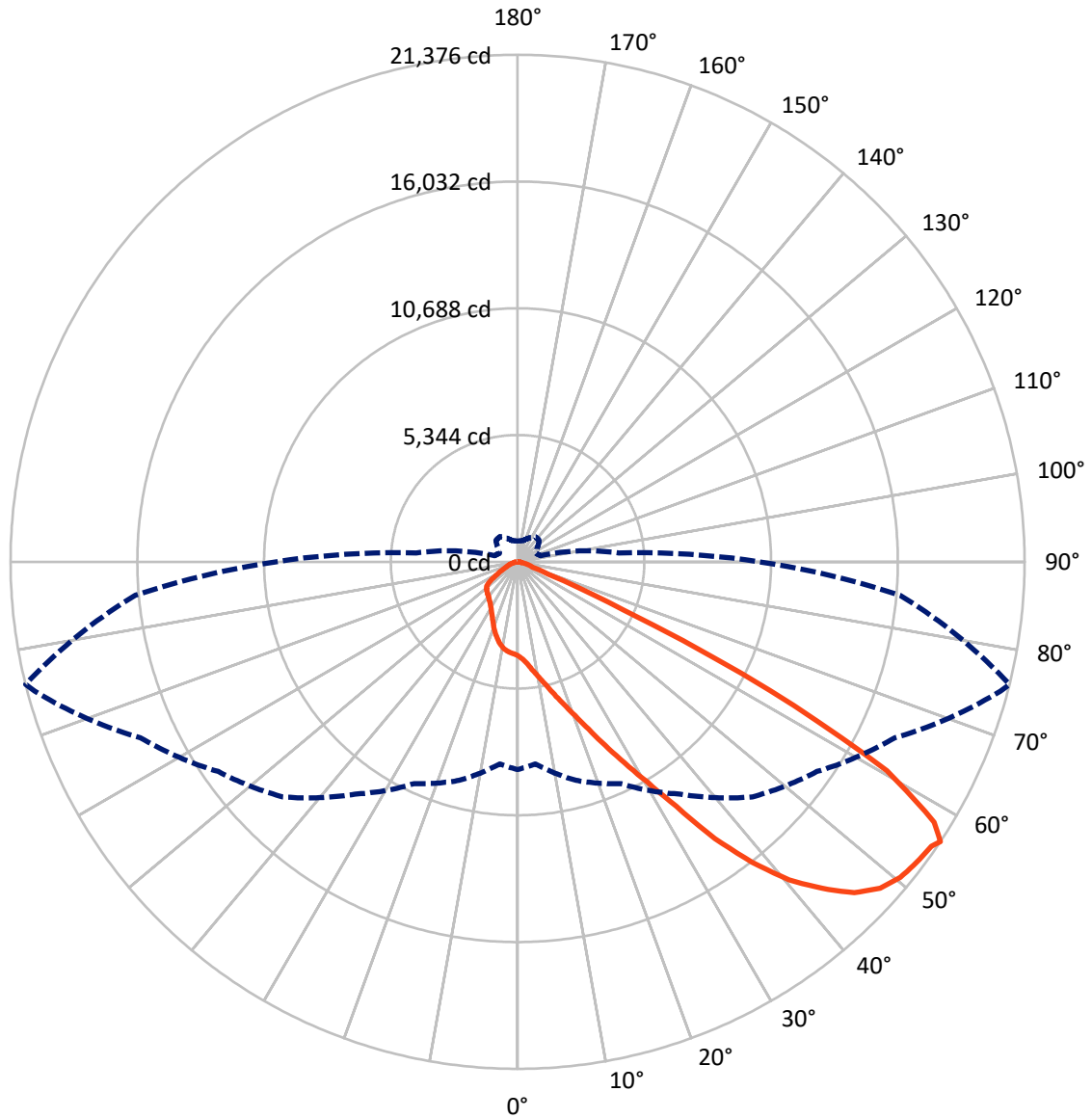
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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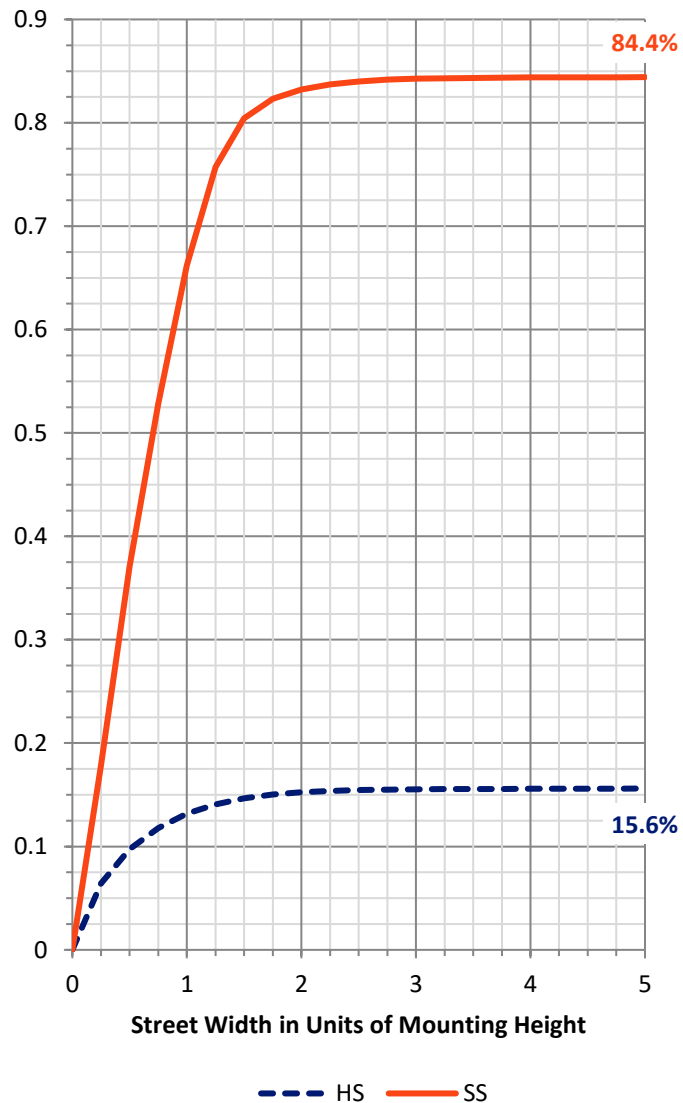
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3743.1	0.0	3743.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	20083.6	0.0	20083.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	23826.7	0.0	23826.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.5	1.7
10°-20°	1283.5	5.4
20°-30°	2327.3	9.8
30°-40°	4013.6	16.8
40°-50°	6520.2	27.4
50°-60°	6872.5	28.8
60°-70°	2099.9	8.8
70°-80°	269.2	1.1
80°-90°	40.9	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°	23826.7	100.0
0°-180°	23826.7	100.0

Coefficient of Utilization



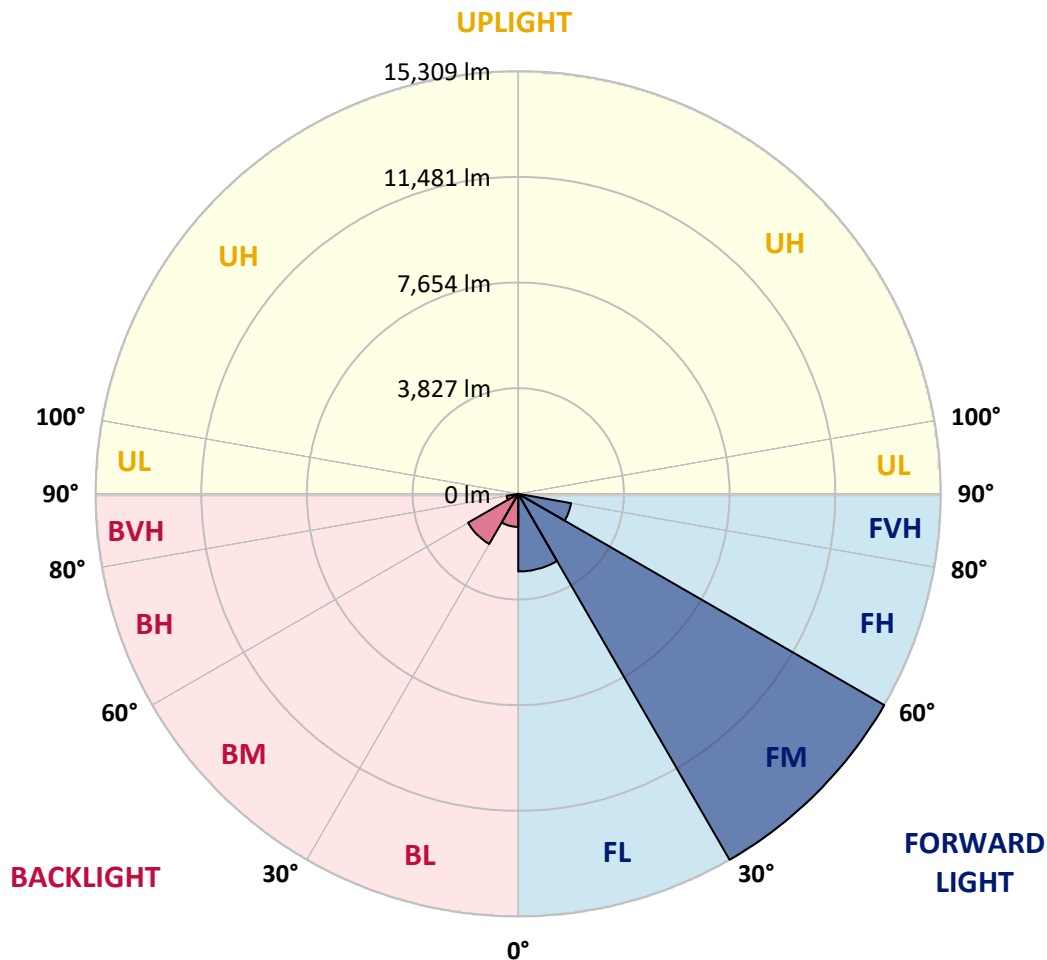
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2813.0	11.8			
FM (30°-60°)	15308.6	64.2			
FH (60°-80°)	1942.0	8.2			G2/5000
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1197.4	5.0	B3/2500		
BM (30°-60°)	2097.8	8.8	B2/2500		
BH (60°-80°)	427.0	1.8	B1/500		G1/500
BVH (80°-90°)	20.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0
2.5°	4567.7	4462.3	4466.7	4457.9	4444.7	4396.4	4251.5	4229.5	4132.9	4106.5	4018.7
5°	5116.7	5024.4	5077.2	4998.1	4923.4	4879.5	4642.3	4532.6	4378.8	4321.8	4198.8
7.5°	5459.3	5415.4	5397.8	5402.2	5331.9	5222.1	5116.7	4875.1	4668.7	4624.8	4365.7
10°	5626.2	5599.8	5626.2	5613.0	5643.7	5656.9	5472.5	5327.5	5024.4	4949.8	4545.7
12.5°	5665.7	5718.4	5740.3	5797.5	5872.1	5999.5	5986.3	5788.6	5384.6	5336.3	4822.4
15°	5762.3	5806.3	5784.3	5876.5	6017.0	6232.3	6346.4	6315.7	5880.9	5793.1	5143.1
17.5°	5850.2	5771.1	5845.8	6030.2	6170.7	6500.2	6776.9	6904.3	6421.1	6320.1	5437.3
20°	5968.7	5946.8	5933.6	6025.8	6276.2	6715.4	7264.4	7497.1	7027.2	6921.8	5859.0
22.5°	6328.9	6333.3	6324.5	6188.4	6368.5	6864.7	7690.4	8265.7	7751.9	7664.1	6337.7
25°	6803.3	6746.2	6702.2	6592.4	6570.5	7000.9	8120.8	9205.7	8621.5	8560.1	6855.9
27.5°	7303.9	7303.9	7172.1	7071.1	6930.6	7339.1	8516.1	10119.2	9671.2	9587.8	7308.3
30°	7848.6	7879.3	7861.7	7646.5	7558.7	7708.0	8920.2	11287.5	10874.6	10769.2	8055.0
32.5°	8652.2	8586.4	8661.1	8481.0	8221.8	8353.6	9557.0	12332.8	12438.2	12288.9	9034.4
35°	9715.2	9675.6	9627.3	9333.0	9025.6	9131.0	10457.4	13619.7	14401.4	14326.8	10022.6
37.5°	10668.2	10646.2	10606.7	10404.7	10048.9	10176.3	11480.7	14959.2	16316.3	16070.4	11419.3
40°	11669.6	11788.1	11660.8	11480.7	11155.7	11436.8	12684.1	15754.1	17928.2	17629.6	12486.5
42.5°	13026.7	12934.5	12991.6	12662.2	12486.5	12793.9	13891.9	16549.1	19179.9	18824.2	13619.7
45°	14471.7	14476.1	14322.3	14216.9	13760.2	14094.0	14634.2	16988.3	20176.9	19900.2	14476.1
47.5°	15398.4	15394.0	15560.9	15727.8	15257.9	14928.4	15139.3	17405.5	20690.8	20563.4	14787.9
50°	15253.5	15297.4	15512.6	16136.2	16382.2	15938.6	15613.6	17282.6	20923.6	20910.4	15055.8
52.5°	13268.2	13413.2	13773.4	14673.7	15912.3	16461.2	16109.9	17510.9	21037.7	21059.7	15455.5
55°	10101.6	10180.7	10865.8	11959.5	13329.8	15209.5	15912.3	17691.0	21125.6	21165.1	15938.6
56°	8762.1	8551.2	9539.4	10316.8	11955.1	14010.5	15411.6	17550.5	21072.9	21375.9	16180.1
57.5°	6614.4	6473.8	7273.2	8243.8	9820.5	11990.2	13856.8	16887.3	20717.2	20712.7	15833.2
60°	4023.1	3882.5	4497.4	5068.4	5951.2	7383.0	9363.7	13448.3	17515.3	17884.3	12820.3
62.5°	2393.6	2481.5	3087.6	3434.6	3720.0	3869.4	4844.4	7993.5	11687.1	11950.7	7953.9
65°	1594.3	1625.0	2081.8	2652.8	2780.1	2213.5	1972.0	3236.9	5068.4	4905.9	3280.8
67.5°	983.8	1054.1	1396.6	1994.0	2209.2	1616.3	935.5	1207.8	1396.6	1396.6	948.7
70°	597.4	632.4	931.1	1357.1	1515.3	1040.9	680.7	680.7	672.0	658.8	566.6
72.5°	285.5	307.4	474.3	698.4	711.5	549.0	527.0	575.3	562.2	557.8	470.0
75°	123.0	131.8	166.9	219.6	250.3	232.8	320.6	412.9	426.0	412.9	338.2
77.5°	39.5	43.9	61.5	79.1	83.5	101.0	136.2	171.3	197.6	184.5	166.9
80°	4.4	8.8	17.5	39.5	61.5	79.1	101.0	114.2	127.4	127.4	118.5
82.5°	4.4	4.4	17.5	35.2	57.1	74.7	96.6	109.8	127.4	131.8	123.0
85°	0.0	4.4	13.2	30.8	48.3	48.3	43.9	43.9	30.8	30.8	30.8
87.5°	0.0	0.0	4.4	4.4	4.4	8.8	8.8	8.8	8.8	8.8	8.8
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°	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0
2.5°	4001.1	3992.4	3873.7	3799.1	3759.6	3680.5	3632.2	3597.0	3570.7	3539.9	3544.3
5°	4053.8	4023.1	3825.4	3689.3	3526.8	3438.9	3364.3	3302.8	3263.2	3254.5	3236.9
7.5°	4203.1	4040.7	3742.0	3496.0	3289.6	3201.8	3135.9	3096.4	3113.9	3074.4	3105.1
10°	4317.4	4075.7	3641.0	3285.2	3078.8	3012.9	2977.7	3008.5	3052.4	3034.9	3012.9
12.5°	4457.9	4110.9	3478.5	3083.2	2890.0	2841.7	2903.1	2960.2	3048.1	3083.2	3039.3
15°	4616.0	4150.4	3272.1	2850.4	2727.4	2767.0	2872.4	2973.4	3061.2	3105.1	3131.5
17.5°	4809.3	4137.3	3070.0	2666.0	2573.7	2687.9	2815.3	2907.5	3039.3	3105.1	3087.6
20°	4989.4	4093.4	2846.0	2481.5	2485.9	2591.3	2696.7	2846.0	2916.3	3004.1	2973.4
22.5°	5160.6	4014.3	2613.3	2354.1	2354.1	2516.6	2569.3	2666.0	2727.4	2771.4	2767.0
25°	5402.2	3865.0	2420.0	2231.2	2283.9	2389.2	2433.2	2463.9	2437.6	2472.7	2477.1
27.5°	5573.5	3711.3	2261.9	2121.3	2218.0	2297.0	2283.9	2266.3	2204.8	2156.5	2187.2
30°	5757.9	3531.2	2125.8	2046.7	2099.4	2169.7	2116.9	2064.2	1967.6	1888.6	1893.0
32.5°	6021.4	3447.7	2007.1	1958.8	2029.1	2037.9	1980.8	1901.8	1805.1	1730.4	1726.0
35°	6513.4	3395.0	1906.1	1901.8	1914.9	1919.3	1862.2	1765.6	1726.0	1664.6	1686.5
37.5°	7005.3	3368.7	1835.9	1818.3	1813.9	1818.3	1752.4	1660.2	1734.8	1730.4	1739.2
40°	7633.3	3487.2	1734.8	1712.9	1717.3	1717.3	1633.8	1607.5	1739.2	1752.4	1756.8
42.5°	8270.1	3636.6	1669.0	1598.7	1616.3	1616.3	1572.3	1541.6	1633.8	1546.0	1532.8
45°	8823.5	3856.2	1598.7	1484.5	1528.4	1550.4	1537.2	1484.5	1427.4	1278.1	1278.1
47.5°	9003.6	4049.4	1515.3	1374.7	1409.9	1506.5	1467.0	1357.1	1256.1	1133.2	1124.4
50°	9319.8	4260.2	1449.3	1247.3	1322.0	1440.6	1401.0	1291.2	1177.1	1089.2	1093.6
52.5°	9644.8	4501.8	1326.4	1098.0	1190.2	1387.9	1387.9	1264.9	1089.2	1027.8	1018.9
55°	10132.4	4493.0	1106.8	900.4	1062.8	1308.8	1330.8	1133.2	975.0	926.7	926.7
56°	10202.6	4291.0	997.0	843.3	1005.8	1286.9	1291.2	1098.0	931.1	878.4	878.4
57.5°	9675.6	3873.7	874.0	773.0	935.5	1247.3	1251.7	1067.2	896.0	821.3	812.5
60°	7444.5	2622.0	729.1	689.5	847.7	1124.4	1146.3	970.6	786.1	729.1	724.7
62.5°	4203.1	1453.7	641.2	623.7	729.1	957.5	1023.3	847.7	667.6	636.8	645.7
65°	1919.3	799.4	540.2	505.1	588.5	737.8	825.7	698.4	549.0	513.9	513.9
67.5°	702.7	544.6	461.2	399.6	412.9	478.7	535.8	452.3	364.6	311.9	325.0
70°	500.7	456.8	404.0	346.9	320.6	311.9	307.4	254.7	180.1	140.5	149.3
72.5°	404.0	377.7	338.2	294.3	250.3	210.8	180.1	131.8	83.5	57.1	52.7
75°	289.9	276.7	245.9	210.8	175.7	149.3	123.0	83.5	43.9	21.9	21.9
77.5°	149.3	149.3	144.9	131.8	109.8	87.9	70.2	48.3	26.4	8.8	8.8
80°	114.2	123.0	127.4	114.2	101.0	79.1	57.1	35.2	17.5	4.4	4.4
82.5°	109.8	127.4	136.2	118.5	101.0	74.7	57.1	35.2	17.5	4.4	4.4
85°	26.4	26.4	39.5	43.9	57.1	61.5	48.3	30.8	13.2	4.4	4.4
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	4.4	4.4	4.4	4.4	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)