

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: P648452

Luminaire Tested: **GALN-SA5B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19023 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

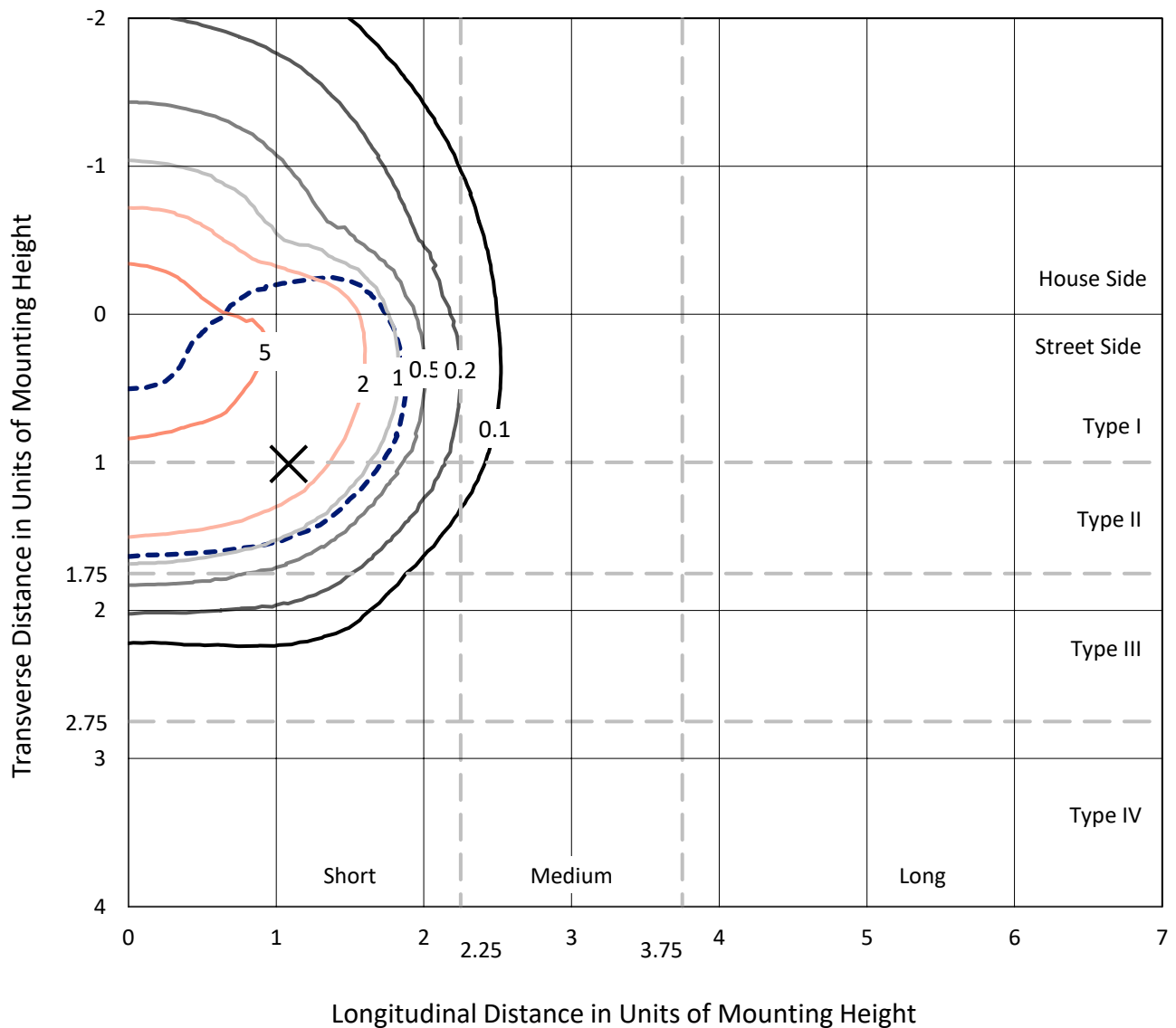
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

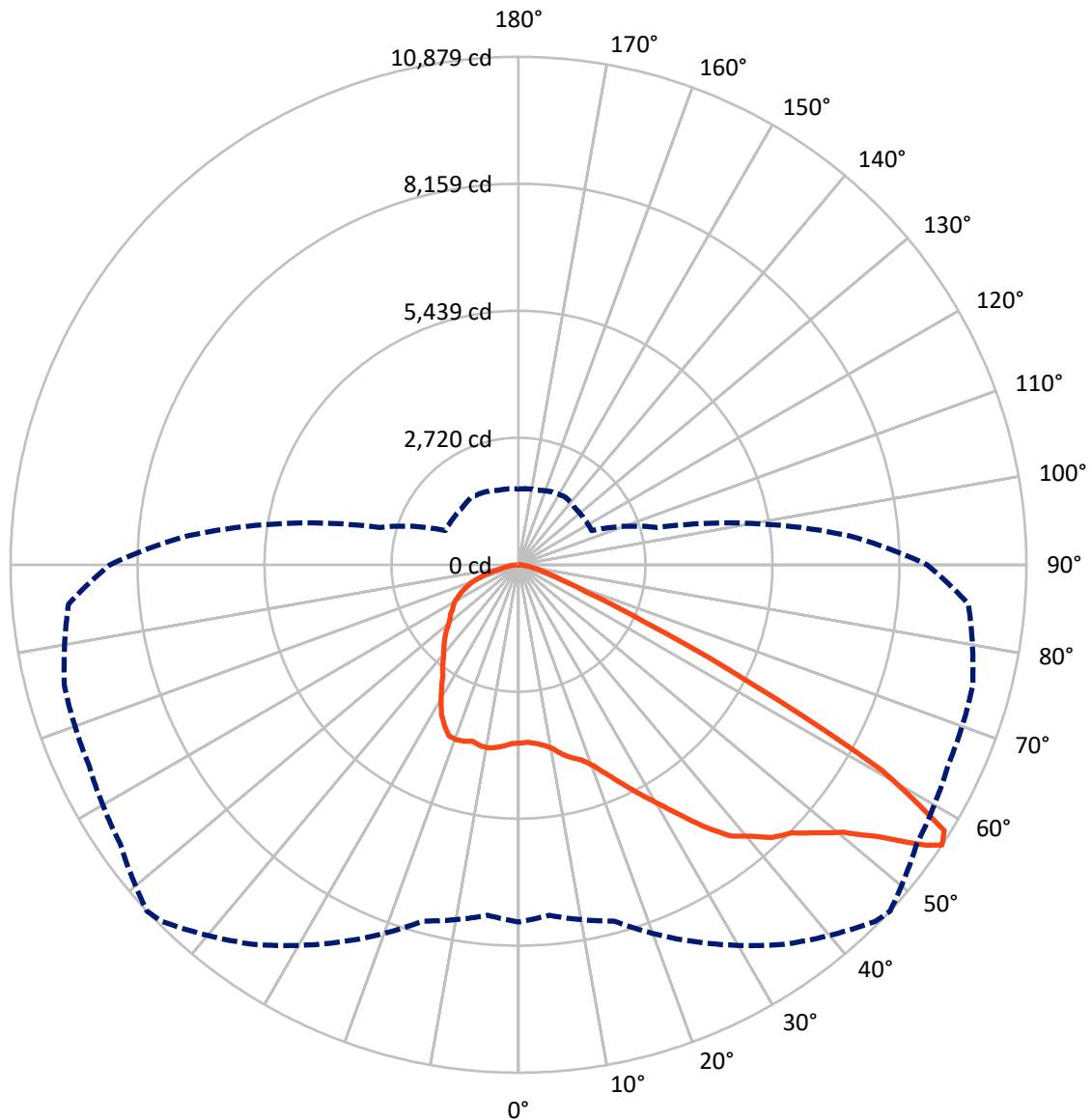
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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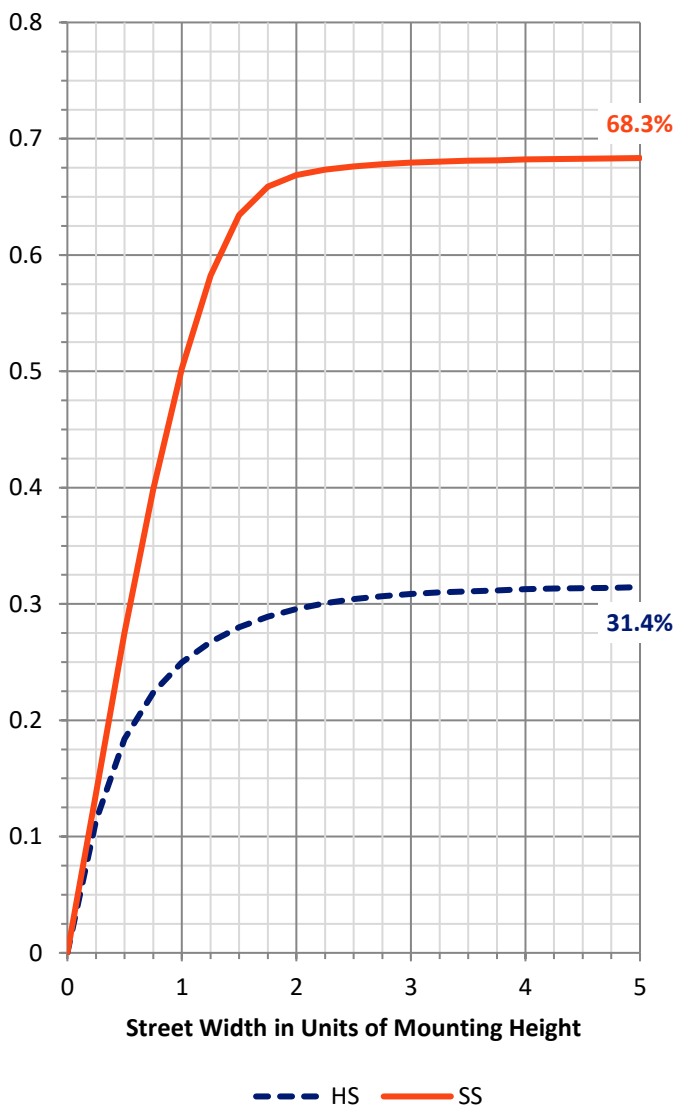
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6028.2	0.0	6028.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12994.8	0.0	12994.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	19023.0	0.0	19023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.3	2.0
10°-20°	1174.5	6.2
20°-30°	2076.2	10.9
30°-40°	3118.4	16.4
40°-50°	4279.7	22.5
50°-60°	5098.6	26.8
60°-70°	2181.9	11.5
70°-80°	617.5	3.2
80°-90°	103.9	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°	19023.0	100.0
0°-180°	19023.0	100.0

Coefficient of Utilization



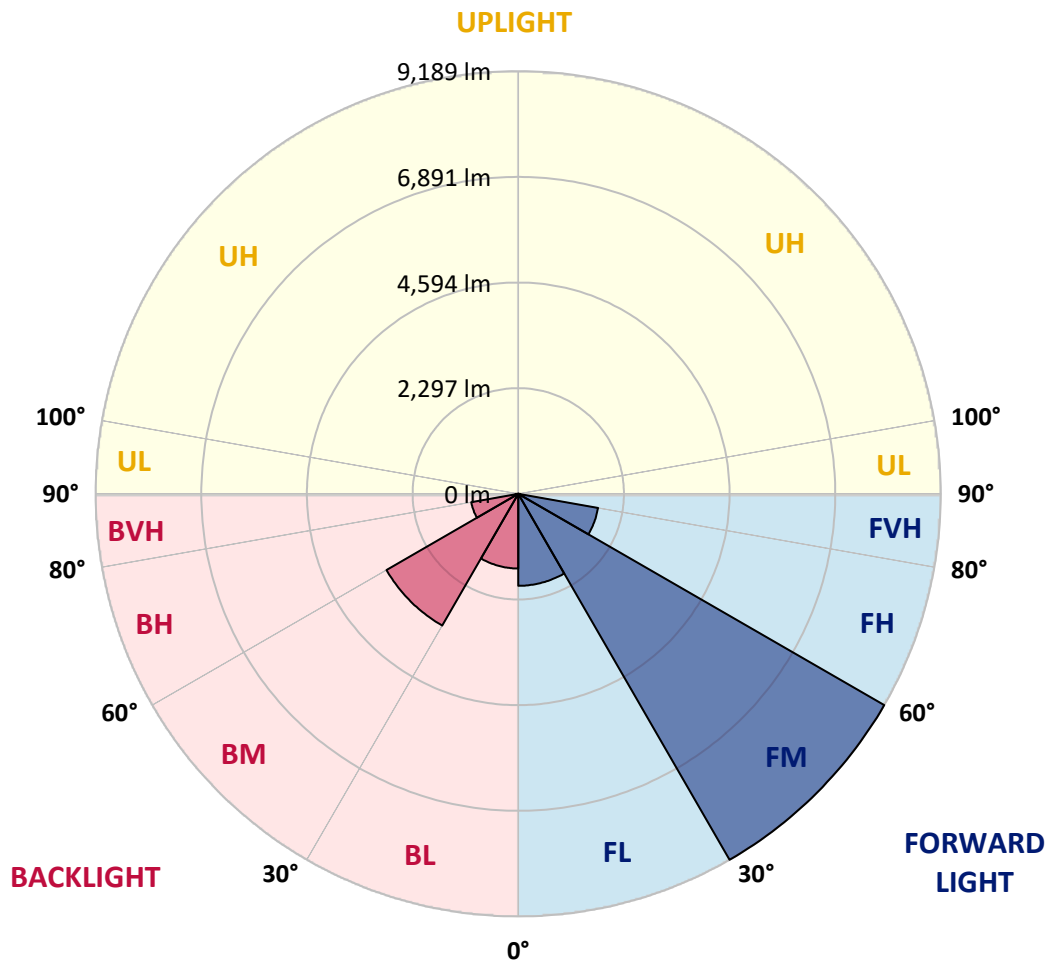
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.0	10.5			
FM (30°-60°)	9188.5	48.3			
FH (60°-80°)	1762.2	9.3			G1/1800
FVH (80°-90°)	44.1	0.2			G1/100
BL (0°-30°)	1623.0	8.5	B3/2500		
BM (30°-60°)	3308.1	17.4	B3/5000		
BH (60°-80°)	1037.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	59.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1
2.5°	3806.6	3799.3	3794.4	3833.3	3818.7	3821.1	3806.6	3821.1	3830.8	3809.0	3840.5
5°	3799.3	3821.1	3801.7	3813.8	3845.4	3835.7	3845.4	3874.5	3867.2	3860.0	3850.2
7.5°	3867.2	3869.7	3884.2	3889.1	3898.8	3889.1	3903.6	3930.3	3923.1	3881.8	3886.7
10°	3964.3	3969.1	3971.5	3998.2	4015.2	4017.7	4000.7	3976.4	3974.0	4029.8	3991.0
12.5°	4075.9	4063.8	4092.9	4102.6	4121.9	4143.8	4165.6	4114.7	4146.2	4148.6	4102.6
15°	4238.5	4250.6	4216.6	4216.6	4223.9	4226.3	4286.9	4262.7	4257.9	4231.2	4250.6
17.5°	4481.0	4398.6	4396.2	4362.2	4357.3	4376.7	4398.6	4418.0	4483.5	4430.1	4325.8
20°	4658.1	4677.6	4607.2	4566.0	4573.3	4616.9	4595.0	4682.4	4728.5	4641.2	4539.3
22.5°	4971.1	4905.7	4922.6	4830.4	4837.7	4883.8	4881.4	4971.1	4997.8	4859.5	4711.5
25°	5182.2	5165.2	5179.8	5107.0	5116.7	5153.1	5211.3	5359.3	5315.6	5162.8	4820.7
27.5°	5490.3	5456.3	5444.2	5417.5	5407.8	5504.9	5572.8	5730.5	5699.0	5475.8	5014.8
30°	5805.7	5783.9	5796.0	5686.9	5725.6	5931.9	5951.3	6167.2	6152.7	5759.6	5230.8
32.5°	6024.1	6036.2	6058.0	5997.4	6169.6	6334.6	6400.1	6645.2	6657.3	6247.2	5648.0
35°	6375.8	6334.6	6346.8	6417.1	6497.2	6798.0	6904.7	7067.3	7169.1	6759.2	6048.3
37.5°	6596.6	6640.3	6589.3	6700.9	6909.6	7271.1	7368.1	7535.5	7642.3	7263.8	6594.2
40°	6941.1	6870.7	6907.2	6987.3	7200.7	7671.4	7644.7	7816.9	7850.9	7693.2	7103.7
42.5°	7312.4	7278.4	7227.4	7409.4	7588.9	7931.0	7984.3	7904.3	8076.6	8113.0	7831.5
45°	7756.3	7797.6	7804.9	7809.7	7967.4	8265.8	8193.0	8122.7	8321.6	8586.1	8282.8
47.5°	8168.7	8037.7	8132.4	8263.4	8486.5	8489.0	8573.9	8406.5	8617.5	8852.9	8690.4
50°	8307.0	8244.0	8370.1	8617.5	8962.1	8998.5	9008.2	8770.5	8879.6	9066.4	8831.1
52.5°	8253.7	8231.8	8554.5	8937.9	9442.4	9626.8	9675.4	9381.8	9442.4	9357.6	9141.6
55°	7998.9	8064.4	8389.5	9170.7	9944.6	10514.8	10607.0	10235.8	9850.1	9915.5	9677.8
56°	7649.6	7535.5	7899.5	8906.3	9922.8	10803.5	10878.7	10415.3	10153.3	10068.4	9672.9
57.5°	6489.9	6341.9	6819.9	8013.5	9372.1	10694.4	10750.1	10490.6	10102.3	9930.1	8966.9
60°	3799.3	3872.1	4478.6	5526.7	7229.8	8768.0	8954.8	9144.0	8884.5	8113.0	6674.3
62.5°	1834.2	1788.1	2222.3	3168.5	4405.9	5597.0	5541.3	6072.6	6363.7	5764.4	4214.2
65°	960.7	955.9	1213.0	1729.8	2421.3	2940.5	2991.4	3277.7	3678.0	2969.6	2139.9
67.5°	706.0	725.4	854.0	1215.5	1557.5	1589.1	1581.8	1724.9	1763.8	1492.1	1315.0
70°	553.2	562.9	657.5	924.3	1159.7	1038.4	1016.6	1033.6	1147.6	1196.1	1137.9
72.5°	400.3	410.0	490.1	623.5	725.4	708.5	723.0	817.6	958.3	1009.3	948.6
75°	266.8	274.1	317.8	380.9	429.4	463.4	490.1	599.2	730.2	759.4	730.2
77.5°	184.4	191.7	220.8	269.3	274.1	296.0	305.7	356.7	436.7	473.1	453.7
80°	104.3	104.3	118.9	138.3	169.8	199.0	203.8	245.0	281.4	305.7	310.5
82.5°	48.5	51.0	63.1	84.9	111.6	138.3	143.1	169.8	196.5	220.8	228.1
85°	24.3	26.7	36.4	51.0	68.0	82.4	80.1	82.4	87.3	82.4	84.9
87.5°	7.3	7.3	9.7	12.1	9.7	12.1	12.1	14.6	17.0	19.4	21.8
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°	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1
2.5°	3843.0	3850.2	3801.7	3847.8	3830.8	3828.4	3862.4	3857.5	3869.7	3864.8	3835.7
5°	3845.4	3828.4	3879.4	3833.3	3855.1	3901.2	3869.7	3942.5	3906.1	3930.3	3876.9
7.5°	3920.6	3925.5	3915.8	3935.2	3925.5	3947.3	3930.3	3947.3	3918.2	3920.6	3969.1
10°	3986.1	3971.5	3988.5	3964.3	3981.2	3974.0	3935.2	3923.1	3932.8	3920.6	3952.1
12.5°	4107.4	4080.8	4068.6	4039.5	4020.1	3947.3	3886.7	3852.7	3898.8	3906.1	3891.5
15°	4231.2	4233.6	4177.8	4112.2	3991.0	3881.8	3896.4	3908.5	3908.5	3927.9	3891.5
17.5°	4308.8	4308.8	4257.9	4126.8	4003.1	3940.1	3925.5	3886.7	3852.7	3847.8	3845.4
20°	4444.6	4403.4	4286.9	4124.4	3998.2	3969.1	3860.0	3767.8	3697.4	3673.1	3670.7
22.5°	4599.9	4495.6	4333.0	4129.2	3991.0	3949.7	3746.0	3607.7	3481.5	3428.1	3435.4
25°	4743.1	4575.7	4359.7	4107.4	3964.3	3765.4	3537.3	3345.6	3214.6	3170.9	3149.1
27.5°	4842.5	4660.6	4359.7	4126.8	3864.8	3559.1	3326.2	3081.2	2967.2	2938.1	2942.9
30°	4976.0	4767.3	4434.9	4085.6	3665.8	3292.3	3013.2	2853.1	2785.2	2760.9	2777.9
32.5°	5288.9	5046.4	4539.3	3986.1	3430.6	3025.4	2799.8	2710.0	2610.5	2562.0	2545.0
35°	5628.6	5310.8	4641.2	3818.7	3166.1	2782.8	2642.1	2559.5	2440.7	2387.3	2397.0
37.5°	6109.0	5650.4	4648.4	3542.1	2879.8	2646.9	2518.3	2389.7	2292.7	2210.2	2185.9
40°	6756.7	6113.8	4631.4	3251.0	2649.4	2486.8	2392.1	2232.0	2122.9	2064.6	2076.8
42.5°	7326.9	6657.3	4561.1	2921.1	2440.7	2377.6	2270.9	2113.2	2006.4	1945.8	1940.9
45°	7807.3	7057.6	4427.7	2639.6	2266.0	2256.3	2132.6	2011.3	1926.3	1870.5	1894.8
47.5°	8251.3	7380.2	4226.3	2358.2	2105.9	2125.3	2006.4	1931.2	1877.8	1826.9	1824.5
50°	8411.4	7375.4	4049.2	2125.3	1977.3	1967.6	1962.7	1882.6	1826.9	1783.2	1802.6
52.5°	8678.2	7457.9	3857.5	1965.2	1860.8	1863.2	1880.2	1822.0	1758.9	1732.2	1756.5
55°	9061.6	7470.1	3435.4	1778.3	1763.8	1780.8	1780.8	1741.9	1688.6	1666.8	1654.6
56°	8748.6	7108.5	3081.2	1729.8	1715.2	1715.2	1761.4	1717.7	1652.2	1635.2	1620.7
57.5°	8069.3	6227.8	2579.0	1671.6	1649.8	1683.8	1708.0	1661.9	1601.2	1577.0	1591.5
60°	5565.5	4214.2	1938.5	1545.4	1545.4	1601.2	1620.7	1552.7	1526.1	1523.6	1504.2
62.5°	3248.6	2455.3	1516.4	1431.4	1436.3	1482.4	1496.9	1458.1	1424.1	1465.4	1484.8
65°	1722.5	1465.4	1300.4	1310.1	1312.5	1349.0	1412.0	1409.6	1407.1	1419.3	1421.7
67.5°	1247.0	1217.9	1181.5	1171.8	1176.7	1203.4	1266.4	1315.0	1312.5	1283.4	1261.6
70°	1111.2	1069.9	1048.0	1050.5	1031.1	1062.6	1113.6	1145.1	1089.3	1055.3	1040.8
72.5°	924.3	912.2	897.6	900.1	861.3	854.0	795.8	795.8	781.2	771.5	788.5
75°	706.0	701.2	708.5	696.3	655.1	611.4	577.4	545.9	497.4	477.9	468.2
77.5°	446.4	461.0	477.9	451.2	434.3	402.7	368.8	337.2	298.4	276.6	276.6
80°	303.3	315.4	327.5	322.7	303.3	274.1	247.4	213.5	186.8	169.8	167.4
82.5°	230.5	240.2	257.1	237.8	218.4	194.1	172.3	148.0	123.7	104.3	104.3
85°	82.4	94.6	104.3	114.0	121.3	123.7	106.7	87.3	70.4	55.8	53.4
87.5°	21.8	24.3	26.7	24.3	24.3	24.3	26.7	24.3	21.8	17.0	17.0
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)