

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: P647905

Luminaire Tested: **GALN-SA4A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12365.1 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

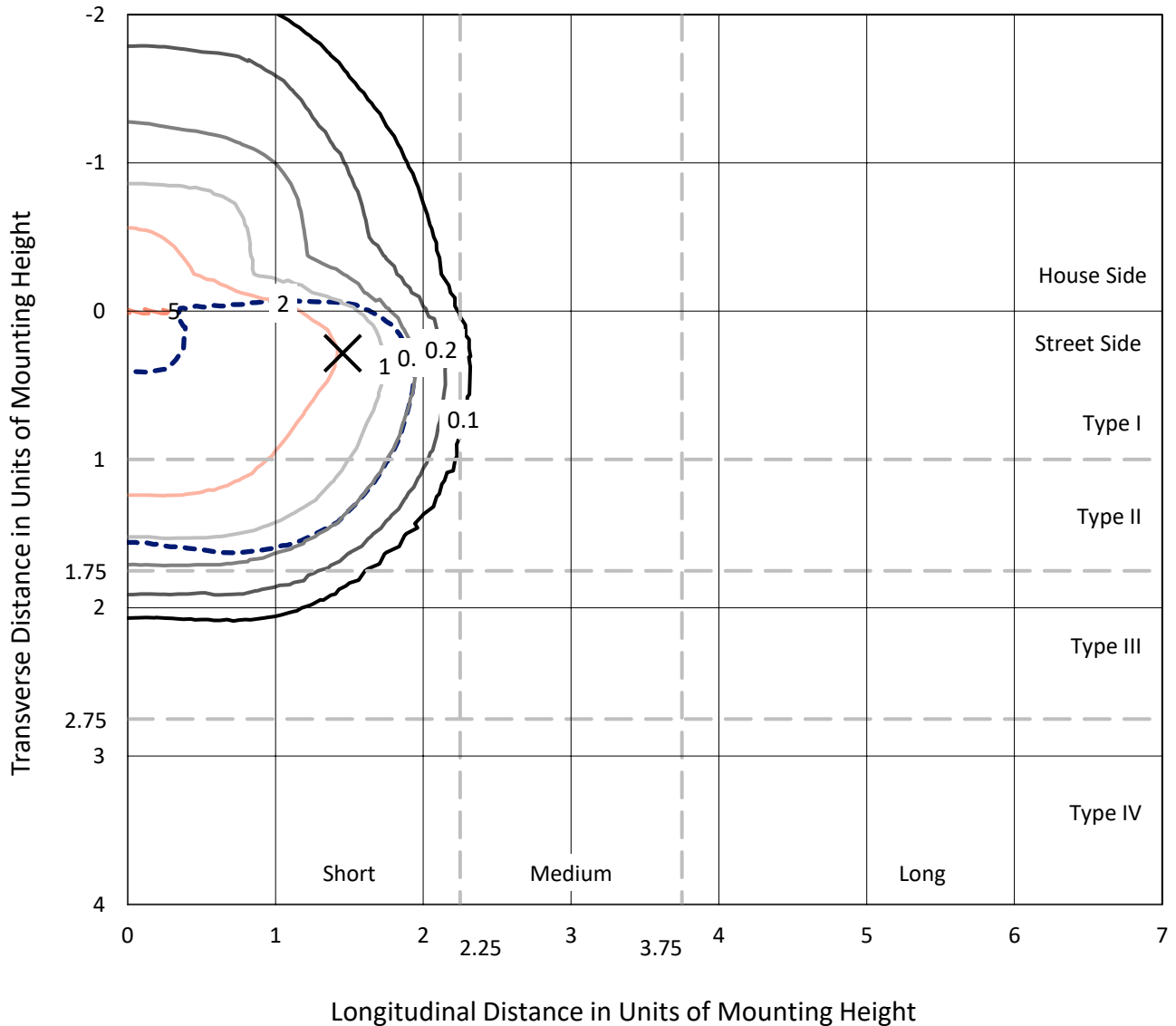
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

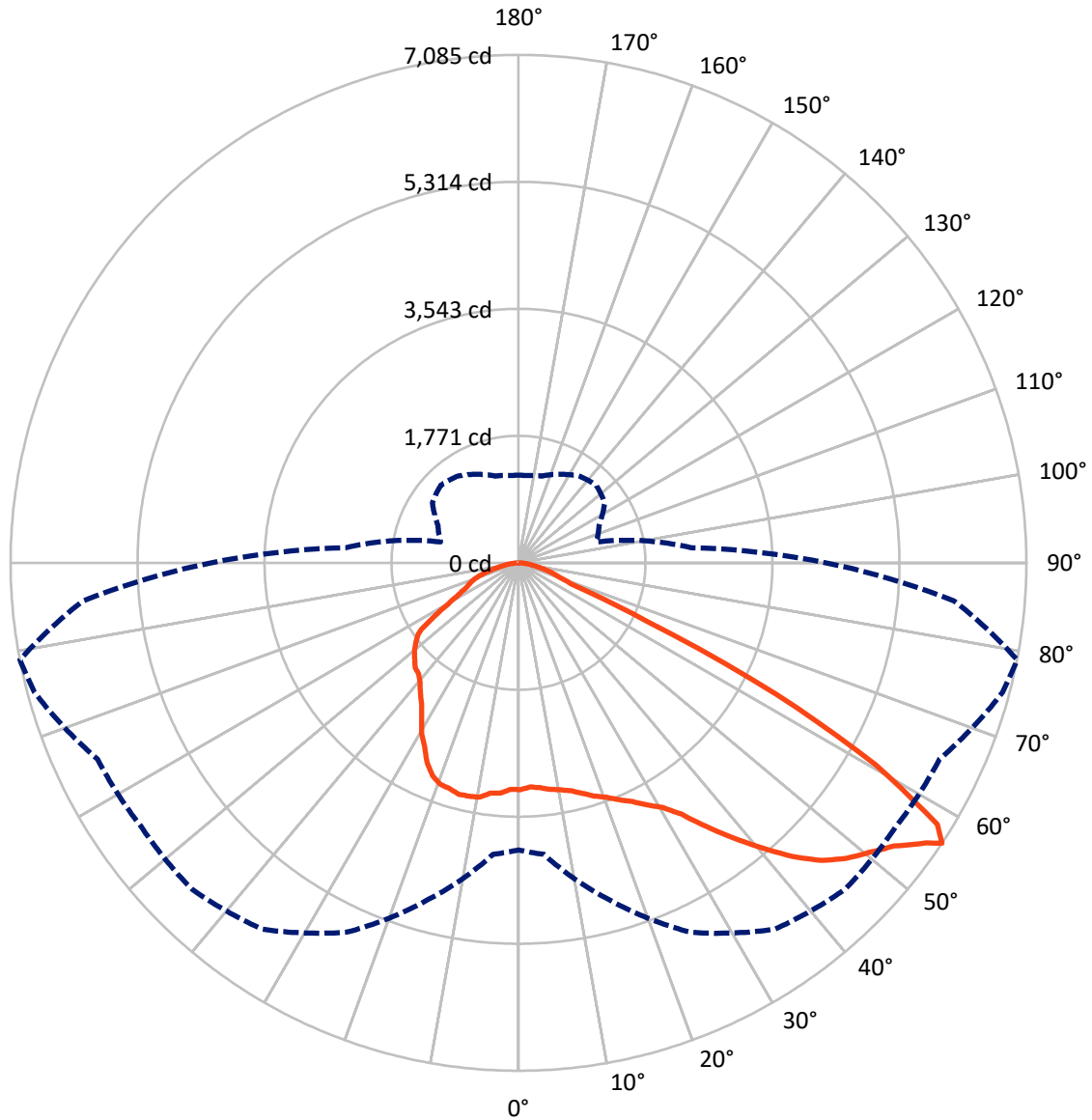
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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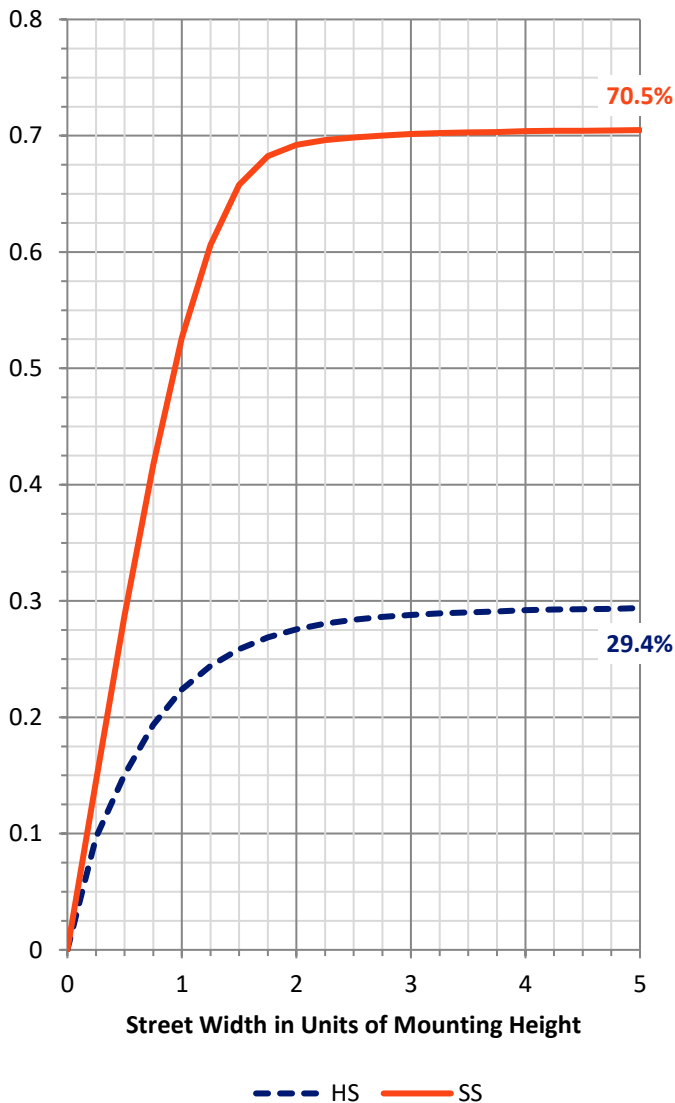
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3651.7	0.0	3651.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8713.4	0.0	8713.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	12365.1	0.0	12365.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	2.3
10°-20°	787.2	6.4
20°-30°	1346.8	10.9
30°-40°	2064.1	16.7
40°-50°	2789.6	22.6
50°-60°	3203.9	25.9
60°-70°	1460.4	11.8
70°-80°	360.1	2.9
80°-90°	65.4	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°	12365.1	100.0
0°-180°	12365.1	100.0



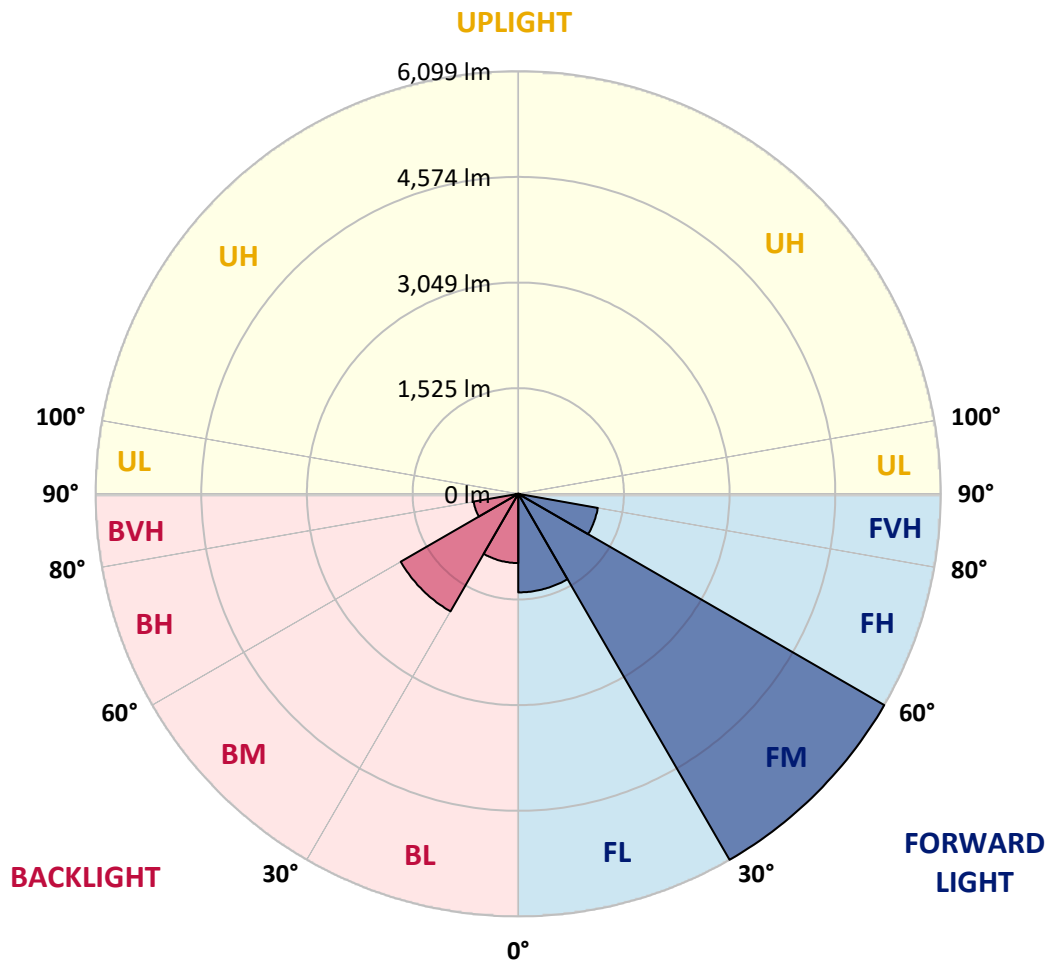
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.7	11.5			
FM (30°-60°)	6098.9	49.3			
FH (60°-80°)	1165.8	9.4			G1/1800
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	998.9	8.1	B2/1000		
BM (30°-60°)	1958.7	15.8	B2/2500		
BH (60°-80°)	654.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	39.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3009.7	3002.0	3020.5	3034.4	3051.3	3072.9	3083.7	3089.8	3143.7	3129.9	3171.5
5°	2945.0	2925.0	2938.8	2949.6	2978.9	3005.1	3034.4	3080.6	3129.9	3151.4	3202.2
7.5°	2888.0	2877.3	2874.2	2881.9	2921.9	2955.8	3006.6	3074.4	3154.5	3189.9	3219.2
10°	2794.1	2778.7	2801.8	2852.6	2863.4	2934.2	2992.8	3089.8	3159.1	3220.7	3307.0
12.5°	2752.5	2737.1	2741.7	2771.0	2846.4	2914.2	2983.5	3092.9	3239.2	3263.9	3379.3
15°	2818.7	2803.3	2807.9	2800.2	2872.7	2908.1	3017.4	3154.5	3294.7	3336.3	3459.5
17.5°	2969.7	2971.3	2951.2	2934.2	2917.3	2992.8	3068.3	3191.5	3316.2	3421.0	3513.4
20°	3257.7	3206.9	3166.8	3071.3	3045.2	3077.5	3173.0	3291.6	3404.0	3490.3	3595.1
22.5°	3479.5	3484.1	3427.1	3270.0	3213.0	3226.9	3308.6	3405.6	3528.8	3590.4	3710.6
25°	3801.5	3769.0	3707.5	3582.7	3454.8	3465.6	3525.7	3613.5	3647.4	3690.5	3821.4
27.5°	4095.6	4104.9	3983.2	3866.1	3707.5	3676.7	3784.5	3799.9	3742.9	3824.6	3869.2
30°	4394.4	4386.8	4306.7	4169.6	4014.0	4020.2	4067.9	3992.4	3913.9	3958.5	3989.3
32.5°	4704.0	4616.3	4613.1	4490.0	4371.3	4314.3	4255.8	4292.8	4171.1	4180.4	4151.1
35°	4952.0	4964.4	4893.5	4805.7	4747.2	4647.0	4486.8	4553.1	4530.0	4519.2	4392.9
37.5°	5132.3	5084.5	5119.9	5090.7	5035.2	4910.4	4744.1	4807.2	4818.0	4870.4	4724.1
40°	5280.1	5260.1	5354.0	5369.4	5330.9	5061.4	4762.6	4950.5	5112.2	5226.2	5052.2
42.5°	5350.9	5394.1	5492.7	5611.3	5525.0	5236.9	4858.0	5059.8	5420.2	5600.5	5363.3
45°	5446.5	5391.0	5537.3	5754.5	5756.1	5384.8	4950.5	5207.7	5660.5	5922.4	5575.8
47.5°	5349.4	5377.2	5528.1	5803.8	5874.6	5540.4	5200.0	5417.2	5925.5	6158.1	5773.0
50°	5132.3	5187.7	5463.4	5749.9	5964.0	5705.3	5486.5	5643.6	6170.4	6347.5	5805.3
52.5°	4905.8	4936.6	5367.9	5791.5	6004.0	5917.8	5870.0	5956.3	6469.2	6561.6	5845.4
55°	4289.7	4436.0	5052.2	5773.0	6199.6	6301.3	6264.3	6390.6	6808.0	6900.5	6064.1
56°	4004.7	4081.8	4862.7	5686.8	6238.2	6441.5	6423.0	6480.0	6988.3	7085.3	6098.0
57.5°	3477.9	3484.1	4146.5	5304.7	6093.4	6483.1	6464.6	6509.2	6952.9	6886.6	5800.7
60°	2176.4	2272.0	2821.8	4080.2	5181.5	6014.8	6119.5	5760.7	5862.3	5722.2	4513.1
62.5°	1127.5	1113.7	1478.7	2385.9	3439.5	4306.7	4403.7	4386.8	4229.6	4024.8	2948.1
65°	562.2	565.2	773.2	1181.4	1762.1	2255.0	2526.0	2555.3	2137.9	1967.0	1398.6
67.5°	408.2	423.6	556.0	722.4	830.2	928.8	1138.2	1116.7	845.6	804.1	745.5
70°	317.3	331.1	451.3	551.4	500.6	500.6	545.3	563.8	602.3	619.2	639.2
72.5°	231.1	241.8	345.0	380.5	328.1	352.7	408.2	451.3	491.3	497.5	520.6
75°	158.6	167.9	226.4	209.5	197.2	243.4	298.8	338.9	368.2	383.5	397.4
77.5°	103.2	106.3	129.4	109.4	126.3	157.1	194.1	227.9	257.2	269.6	272.6
80°	46.2	50.8	55.4	69.3	87.8	112.4	138.6	166.4	184.9	189.5	198.7
82.5°	26.2	26.2	33.9	49.3	64.7	81.7	100.1	120.1	141.7	146.3	144.8
85°	13.9	13.9	20.0	29.3	40.0	47.8	46.2	47.8	50.8	58.6	57.0
87.5°	4.6	4.6	6.2	6.2	7.7	9.2	7.7	10.8	13.9	13.9	13.9
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°	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3159.1	3173.0	3154.5	3194.6	3194.6	3186.9	3148.4	3160.7	3169.9	3169.9	3177.6
5°	3219.2	3214.6	3226.9	3179.1	3149.9	3139.1	3075.9	3045.2	3018.9	3017.4	2994.3
7.5°	3253.1	3240.8	3236.1	3200.7	3071.3	2992.8	2857.2	2778.7	2761.7	2701.7	2724.8
10°	3307.0	3330.1	3307.0	3114.5	2934.2	2754.0	2621.6	2499.9	2452.1	2413.6	2390.5
12.5°	3417.9	3407.1	3273.1	3012.8	2760.2	2546.1	2348.9	2221.1	2173.4	2139.5	2136.4
15°	3511.8	3458.0	3253.1	2852.6	2489.1	2261.1	2099.4	2008.6	1986.9	1990.1	2003.9
17.5°	3544.2	3507.2	3148.4	2686.2	2287.3	2019.3	1943.9	1930.0	1950.0	1973.1	1979.3
20°	3595.1	3536.5	3105.2	2459.9	2037.8	1868.4	1863.8	1913.0	1950.0	1983.9	1988.5
22.5°	3701.3	3553.4	2965.1	2245.7	1866.8	1823.7	1868.4	1910.0	1967.0	1994.7	1970.0
25°	3732.1	3516.5	2767.9	1988.5	1759.0	1796.0	1843.7	1900.7	1940.7	1956.2	1967.0
27.5°	3758.3	3459.5	2501.5	1817.5	1725.1	1794.4	1843.7	1891.5	1913.0	1926.9	1939.3
30°	3832.2	3442.5	2270.4	1703.6	1703.6	1763.6	1826.8	1839.1	1868.4	1885.3	1906.8
32.5°	3869.2	3325.5	2033.2	1631.1	1682.0	1779.1	1783.7	1806.8	1808.3	1822.2	1799.0
35°	3966.2	3242.3	1812.9	1578.8	1691.2	1763.6	1786.7	1772.9	1697.4	1660.4	1668.1
37.5°	4037.1	3200.7	1654.2	1572.7	1692.8	1780.5	1792.9	1688.1	1609.6	1548.0	1563.4
40°	4228.1	3097.5	1534.1	1561.9	1706.6	1799.0	1765.2	1651.2	1509.5	1446.4	1435.6
42.5°	4374.4	3023.6	1458.7	1549.6	1717.4	1825.3	1751.3	1577.3	1432.5	1373.9	1389.4
45°	4543.8	3006.6	1418.6	1552.6	1735.9	1839.1	1734.3	1520.3	1366.3	1343.2	1338.5
47.5°	4603.9	2885.0	1375.5	1526.5	1731.3	1834.5	1677.3	1477.1	1341.6	1344.6	1357.0
50°	4503.8	2760.2	1343.2	1472.5	1700.4	1792.9	1588.0	1420.1	1327.7	1366.3	1387.8
52.5°	4376.0	2632.4	1276.9	1400.1	1637.3	1728.2	1546.4	1417.1	1313.9	1301.6	1306.2
55°	4414.5	2527.6	1184.4	1301.6	1535.7	1608.0	1500.2	1387.8	1280.0	1233.8	1249.2
56°	4289.7	2419.8	1124.4	1240.0	1466.3	1531.1	1477.1	1361.6	1252.3	1221.5	1221.5
57.5°	3937.0	2057.8	1045.9	1141.4	1320.1	1397.0	1432.5	1346.2	1221.5	1167.5	1169.1
60°	2903.4	1463.3	938.0	1005.8	1093.6	1155.2	1320.1	1303.1	1144.4	1107.5	1093.6
62.5°	1789.8	1069.0	861.0	887.2	931.8	982.7	1152.1	1179.8	1062.8	1022.8	1013.5
65°	1002.7	817.9	802.5	813.3	834.8	861.0	956.5	1018.1	938.0	876.4	873.4
67.5°	733.2	731.6	743.9	753.2	762.4	762.4	785.6	810.2	799.4	750.1	745.5
70°	651.5	656.2	665.4	667.0	670.0	659.2	640.7	633.1	645.3	614.6	608.4
72.5°	537.5	553.0	563.8	565.2	548.3	534.5	509.8	483.7	474.4	468.2	466.7
75°	412.8	423.6	428.2	426.7	420.5	400.5	371.2	345.0	328.1	309.6	318.8
77.5°	278.8	294.2	301.9	301.9	292.7	261.8	248.0	227.9	211.0	191.0	194.1
80°	195.6	206.4	218.7	217.2	201.8	186.4	166.4	147.8	134.0	118.6	117.1
82.5°	146.3	152.5	158.6	155.6	144.8	129.4	115.5	98.6	83.2	72.4	72.4
85°	52.4	57.0	69.3	72.4	78.5	78.5	66.2	55.4	44.6	37.0	37.0
87.5°	15.4	15.4	16.9	16.9	15.4	16.9	13.9	15.4	16.9	10.8	10.8
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)