

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: P527726

Luminaire Tested: **GALN-SA2D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527726
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-SA2D-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 12367 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

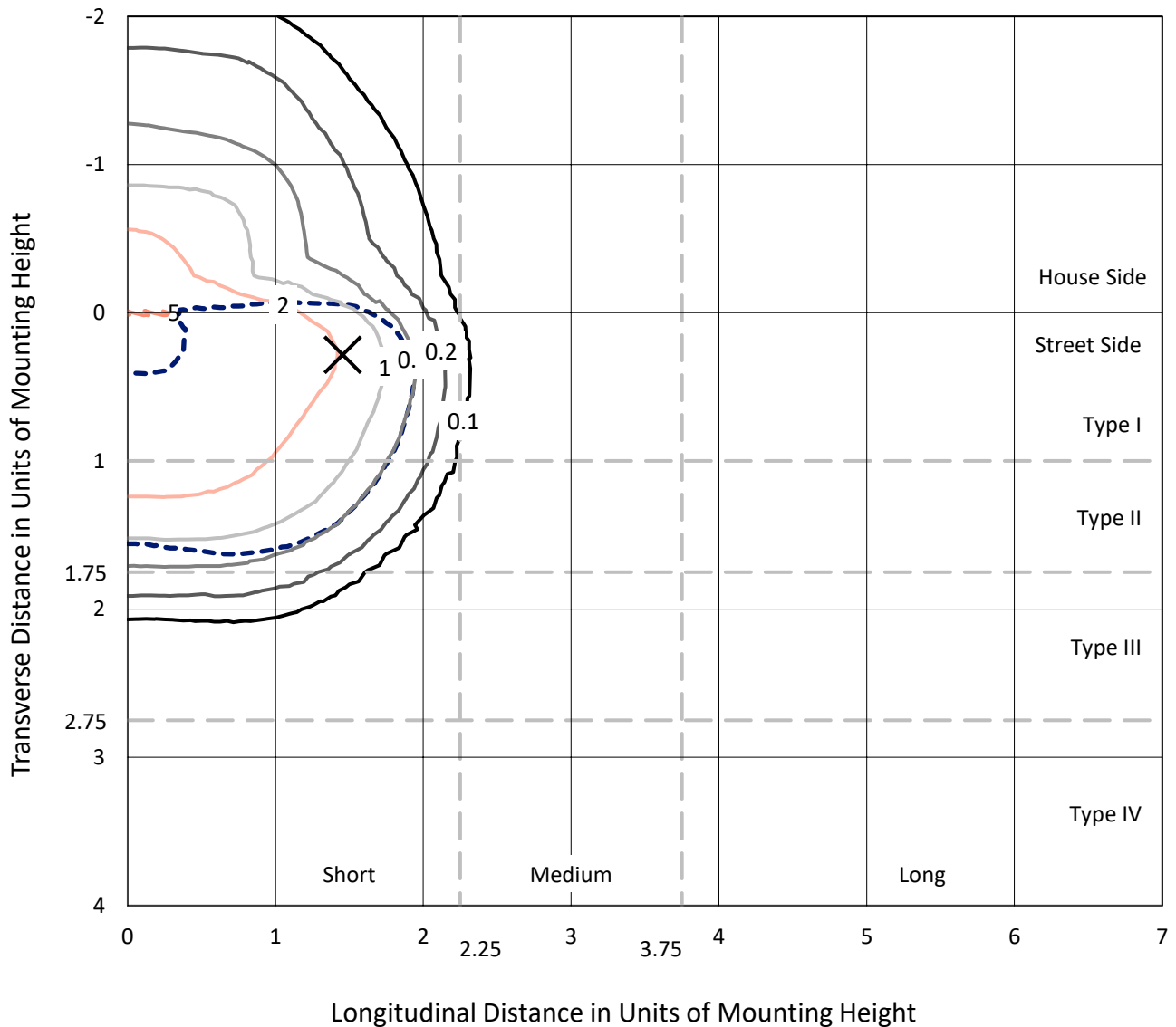
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

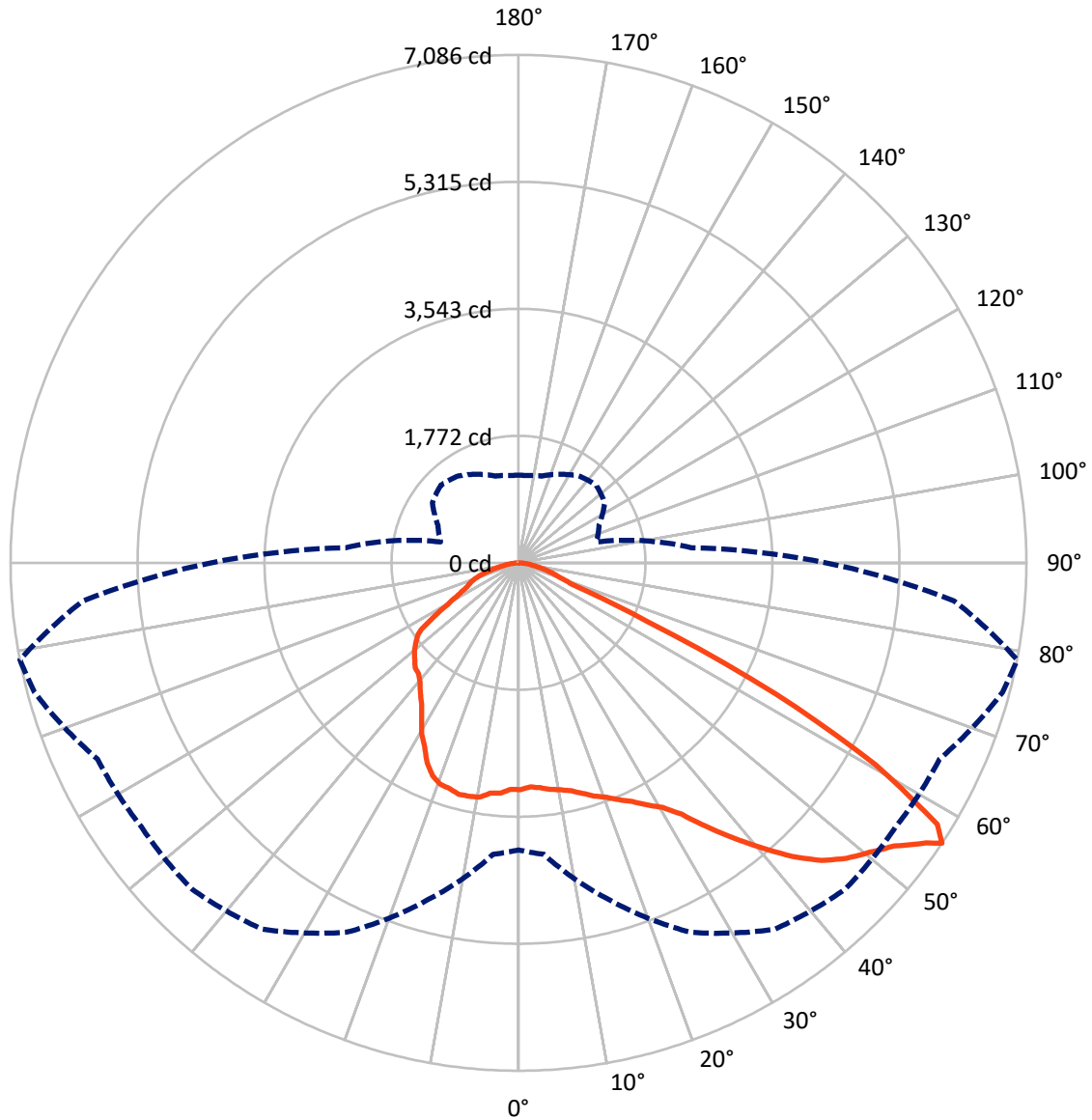
✕ Max cd
 - - - 1/2 Max cd



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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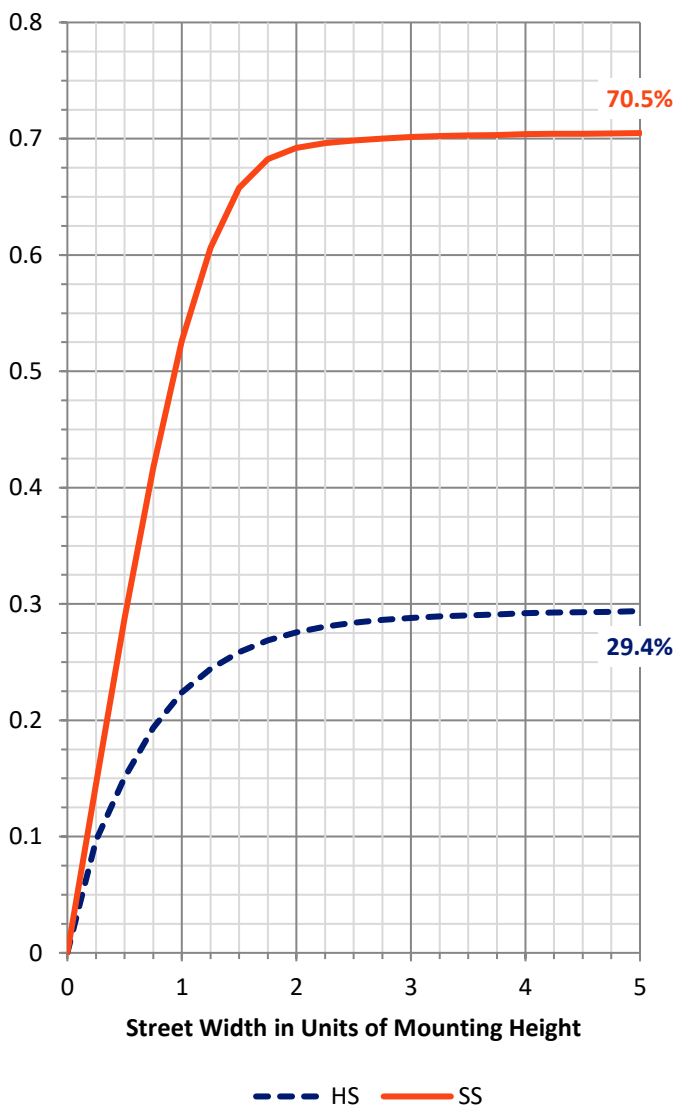
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3652.2	0.0	3652.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8714.8	0.0	8714.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	12367.0	0.0	12367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	2.3
10°-20°	787.3	6.4
20°-30°	1347.0	10.9
30°-40°	2064.4	16.7
40°-50°	2790.0	22.6
50°-60°	3204.4	25.9
60°-70°	1460.7	11.8
70°-80°	360.1	2.9
80°-90°	65.5	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°	12367.0	100.0
0°-180°	12367.0	100.0

Coefficient of Utilization

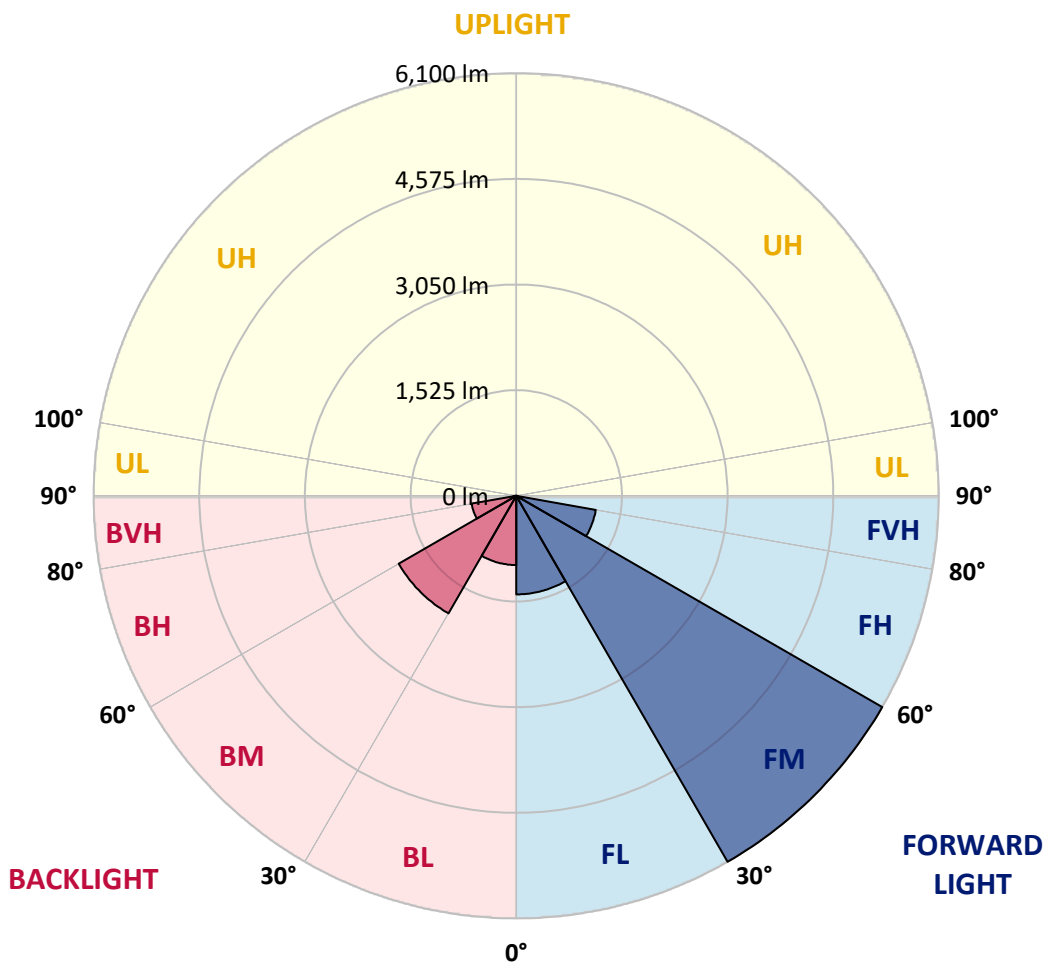


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.9	11.5			
FM (30°-60°)	6099.8	49.3			
FH (60°-80°)	1165.9	9.4			G1/1800
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	999.0	8.1	B2/1000		
BM (30°-60°)	1959.0	15.8	B2/2500		
BH (60°-80°)	654.9	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°	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2
2.5°	3010.2	3002.5	3021.0	3034.8	3051.8	3073.3	3084.1	3090.3	3144.2	3130.3	3171.9
5°	2945.5	2925.4	2939.3	2950.1	2979.4	3005.6	3034.8	3081.0	3130.3	3151.9	3202.7
7.5°	2888.5	2877.7	2874.6	2882.3	2922.4	2956.3	3007.1	3074.9	3155.0	3190.4	3219.7
10°	2794.5	2779.1	2802.2	2853.0	2863.8	2934.7	2993.2	3090.3	3159.6	3221.2	3307.5
12.5°	2752.9	2737.5	2742.1	2771.4	2846.9	2914.7	2984.0	3093.4	3239.7	3264.4	3379.9
15°	2819.1	2803.7	2808.4	2800.7	2873.1	2908.5	3017.9	3155.0	3295.2	3336.8	3460.0
17.5°	2970.1	2971.7	2951.6	2934.7	2917.7	2993.2	3068.7	3192.0	3316.7	3421.5	3513.9
20°	3258.2	3207.4	3167.3	3071.8	3045.6	3078.0	3173.5	3292.1	3404.5	3490.8	3595.6
22.5°	3480.0	3484.7	3427.7	3270.5	3213.5	3227.4	3309.0	3406.1	3529.3	3590.9	3711.1
25°	3802.0	3769.6	3708.0	3583.2	3455.4	3466.2	3526.2	3614.1	3647.9	3691.1	3822.0
27.5°	4096.2	4105.5	3983.8	3866.7	3708.0	3677.2	3785.1	3800.5	3743.5	3825.1	3869.8
30°	4395.1	4387.4	4307.3	4170.2	4014.6	4020.8	4068.5	3993.0	3914.5	3959.1	3989.9
32.5°	4704.7	4616.9	4613.9	4490.6	4372.0	4315.0	4256.5	4293.4	4171.7	4181.0	4151.7
35°	4952.8	4965.1	4894.2	4806.4	4747.9	4647.7	4487.5	4553.8	4530.7	4519.9	4393.6
37.5°	5133.0	5085.3	5120.7	5091.4	5036.0	4911.2	4744.8	4808.0	4818.7	4871.1	4724.8
40°	5280.9	5260.9	5354.8	5370.2	5331.7	5062.1	4763.3	4951.2	5113.0	5227.0	5052.9
42.5°	5351.8	5394.9	5493.5	5612.1	5525.8	5237.8	4858.8	5060.6	5421.1	5601.3	5364.1
45°	5447.3	5391.8	5538.2	5755.4	5756.9	5385.7	4951.2	5208.5	5661.4	5923.3	5576.7
47.5°	5350.2	5378.0	5528.9	5804.7	5875.5	5541.2	5200.8	5418.0	5926.4	6159.0	5773.9
50°	5133.0	5188.5	5464.2	5750.8	5964.9	5706.1	5487.3	5644.5	6171.3	6348.5	5806.2
52.5°	4906.6	4937.4	5368.7	5792.4	6004.9	5918.7	5870.9	5957.2	6470.2	6562.6	5846.3
55°	4290.3	4436.7	5052.9	5773.9	6200.6	6302.3	6265.3	6391.6	6809.1	6901.5	6065.0
56°	4005.3	4082.4	4863.4	5687.6	6239.1	6442.4	6424.0	6481.0	6989.3	7086.4	6098.9
57.5°	3478.5	3484.7	4147.1	5305.5	6094.3	6484.0	6465.6	6510.2	6953.9	6887.7	5801.6
60°	2176.8	2272.3	2822.2	4080.8	5182.3	6015.7	6120.5	5761.5	5863.2	5723.0	4513.7
62.5°	1127.7	1113.8	1478.9	2386.3	3440.0	4307.3	4404.3	4387.4	4230.3	4025.4	2948.6
65°	562.3	565.4	773.3	1181.6	1762.4	2255.3	2526.5	2555.7	2138.2	1967.2	1398.8
67.5°	408.2	423.6	556.1	722.5	830.3	928.9	1138.4	1116.9	845.7	804.2	745.6
70°	317.3	331.2	451.4	551.5	500.7	500.7	545.3	563.8	602.3	619.3	639.3
72.5°	231.1	241.9	345.1	380.5	328.1	352.8	408.2	451.4	491.4	497.6	520.7
75°	158.7	167.9	226.5	209.5	197.2	243.4	298.9	338.9	368.2	383.6	397.5
77.5°	103.2	106.3	129.4	109.4	126.3	157.1	194.1	228.0	257.3	269.6	272.7
80°	46.2	50.8	55.5	69.3	87.8	112.5	138.6	166.4	184.9	189.5	198.7
82.5°	26.2	26.2	33.9	49.3	64.7	81.6	100.1	120.2	141.7	146.3	144.8
85°	13.9	13.9	20.0	29.3	40.1	47.8	46.2	47.8	50.8	58.5	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°	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2	3164.2
2.5°	3159.6	3173.5	3155.0	3195.0	3195.0	3187.3	3148.8	3161.1	3170.4	3170.4	3178.1
5°	3219.7	3215.1	3227.4	3179.6	3150.4	3139.6	3076.4	3045.6	3019.4	3017.9	2994.8
7.5°	3253.6	3241.3	3236.6	3201.2	3071.8	2993.2	2857.7	2779.1	2762.2	2702.1	2725.2
10°	3307.5	3330.6	3307.5	3114.9	2934.7	2754.4	2622.0	2500.3	2452.5	2414.0	2390.9
12.5°	3418.4	3407.6	3273.6	3013.3	2760.6	2546.5	2349.3	2221.4	2173.7	2139.8	2136.7
15°	3512.4	3458.5	3253.6	2853.0	2489.5	2261.5	2099.7	2008.8	1987.3	1990.4	2004.2
17.5°	3544.7	3507.8	3148.8	2686.7	2287.7	2019.6	1944.1	1930.3	1950.3	1973.4	1979.6
20°	3595.6	3537.0	3105.7	2460.2	2038.1	1868.6	1864.0	1913.3	1950.3	1984.2	1988.8
22.5°	3701.9	3554.0	2965.5	2246.1	1867.1	1824.0	1868.6	1910.2	1967.2	1995.0	1970.3
25°	3732.7	3517.0	2768.3	1988.8	1759.3	1796.2	1844.0	1901.0	1941.1	1956.5	1967.2
27.5°	3758.9	3460.0	2501.8	1817.8	1725.4	1794.7	1844.0	1891.8	1913.3	1927.2	1939.5
30°	3832.8	3443.1	2270.7	1703.8	1703.8	1763.9	1827.1	1839.4	1868.6	1885.6	1907.2
32.5°	3869.8	3326.0	2033.5	1631.4	1682.2	1779.3	1783.9	1807.0	1808.6	1822.4	1799.3
35°	3966.8	3242.8	1813.2	1579.0	1691.5	1763.9	1787.0	1773.1	1697.7	1660.7	1668.4
37.5°	4037.7	3201.2	1654.5	1572.9	1693.0	1780.8	1793.2	1688.4	1609.8	1548.2	1563.6
40°	4228.7	3098.0	1534.4	1562.1	1706.9	1799.3	1765.4	1651.4	1509.7	1446.5	1435.8
42.5°	4375.1	3024.0	1458.9	1549.8	1717.7	1825.5	1751.6	1577.5	1432.7	1374.1	1389.5
45°	4544.5	3007.1	1418.8	1552.8	1736.2	1839.4	1734.6	1520.5	1366.4	1343.3	1338.7
47.5°	4604.6	2885.4	1375.7	1526.7	1731.5	1834.8	1677.6	1477.4	1341.8	1344.9	1357.2
50°	4504.5	2760.6	1343.3	1472.7	1700.7	1793.2	1588.3	1420.4	1327.9	1366.4	1388.0
52.5°	4376.6	2632.7	1277.1	1400.3	1637.6	1728.5	1546.7	1417.3	1314.1	1301.7	1306.4
55°	4415.1	2528.0	1184.7	1301.7	1535.9	1608.3	1500.5	1388.0	1280.2	1234.0	1249.4
56°	4290.3	2420.2	1124.6	1240.1	1466.6	1531.3	1477.4	1361.8	1252.4	1221.6	1221.6
57.5°	3937.6	2058.1	1046.0	1141.5	1320.2	1397.3	1432.7	1346.4	1221.6	1167.7	1169.3
60°	2903.9	1463.5	938.2	1006.0	1093.8	1155.4	1320.2	1303.3	1144.6	1107.6	1093.8
62.5°	1790.1	1069.1	861.1	887.3	932.0	982.9	1152.3	1180.0	1063.0	1022.9	1013.7
65°	1002.9	818.0	802.6	813.4	835.0	861.1	956.7	1018.3	938.2	876.6	873.5
67.5°	733.3	731.7	744.1	753.3	762.6	762.6	785.7	810.3	799.5	750.2	745.6
70°	651.6	656.3	665.5	667.0	670.1	659.3	640.9	633.2	645.5	614.7	608.5
72.5°	537.6	553.0	563.8	565.4	548.4	534.6	509.9	483.7	474.5	468.3	466.8
75°	412.9	423.6	428.3	426.7	420.6	400.5	371.3	345.1	328.1	309.6	318.9
77.5°	278.8	294.2	301.9	301.9	292.7	261.9	248.0	228.0	211.1	191.0	194.1
80°	195.6	206.4	218.8	217.2	201.8	186.4	166.4	147.9	134.0	118.6	117.1
82.5°	146.3	152.5	158.7	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	78.6	78.6	66.2	55.5	44.7	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)