

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: P650849

Luminaire Tested: **GALN-SA4C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19787.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

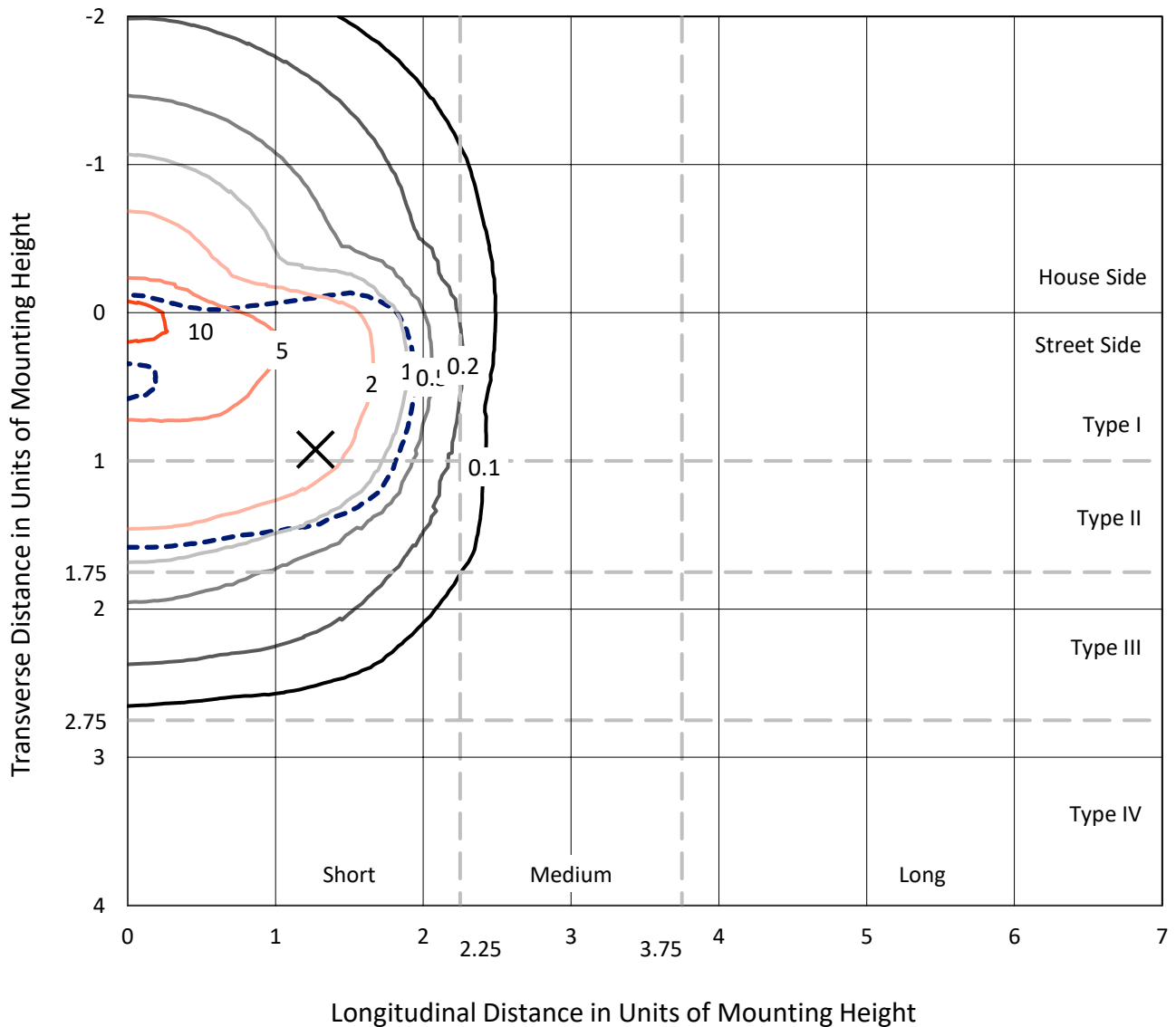
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

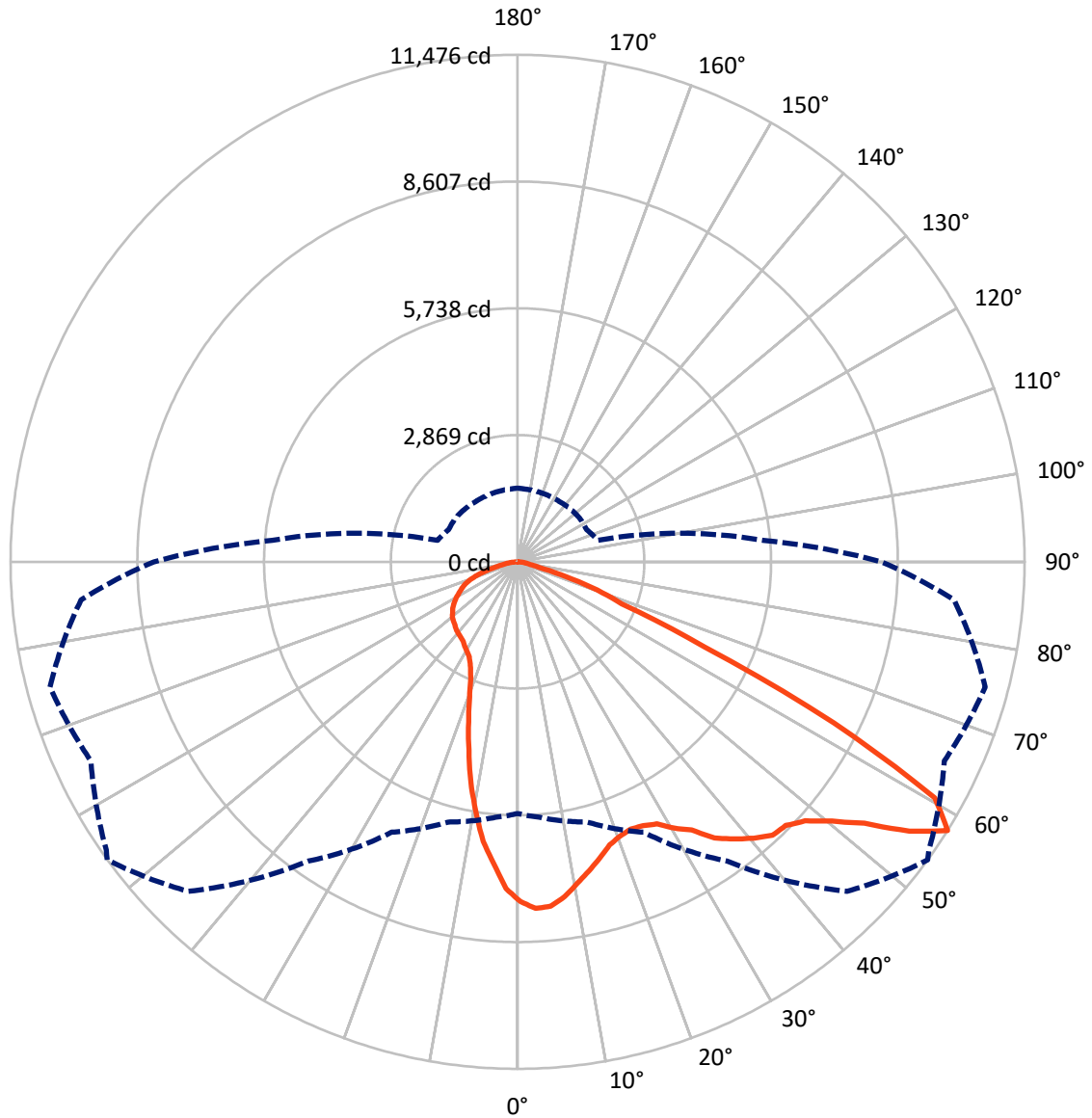
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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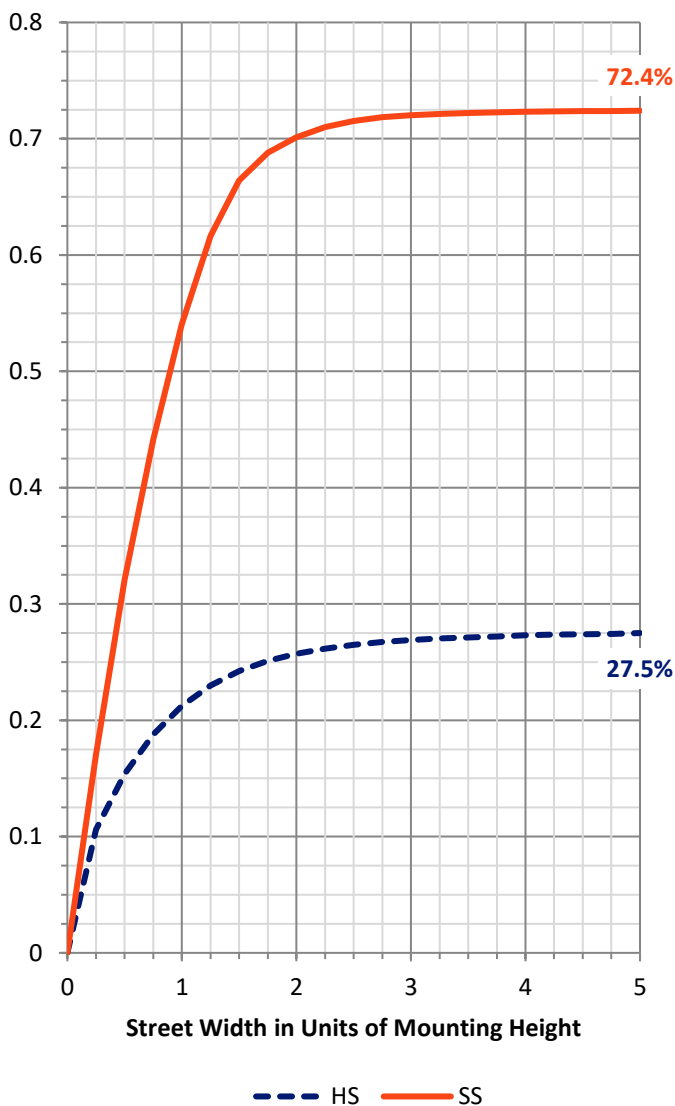
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5474.4	0.0	5474.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	14313.4	0.0	14313.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	19787.9	0.0	19787.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.3	3.4
10°-20°	1535.8	7.8
20°-30°	2157.8	10.9
30°-40°	3016.6	15.2
40°-50°	4083.9	20.6
50°-60°	4974.4	25.1
60°-70°	2590.9	13.1
70°-80°	663.9	3.4
80°-90°	101.3	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°	19787.9	100.0
0°-180°	19787.9	100.0

Coefficient of Utilization

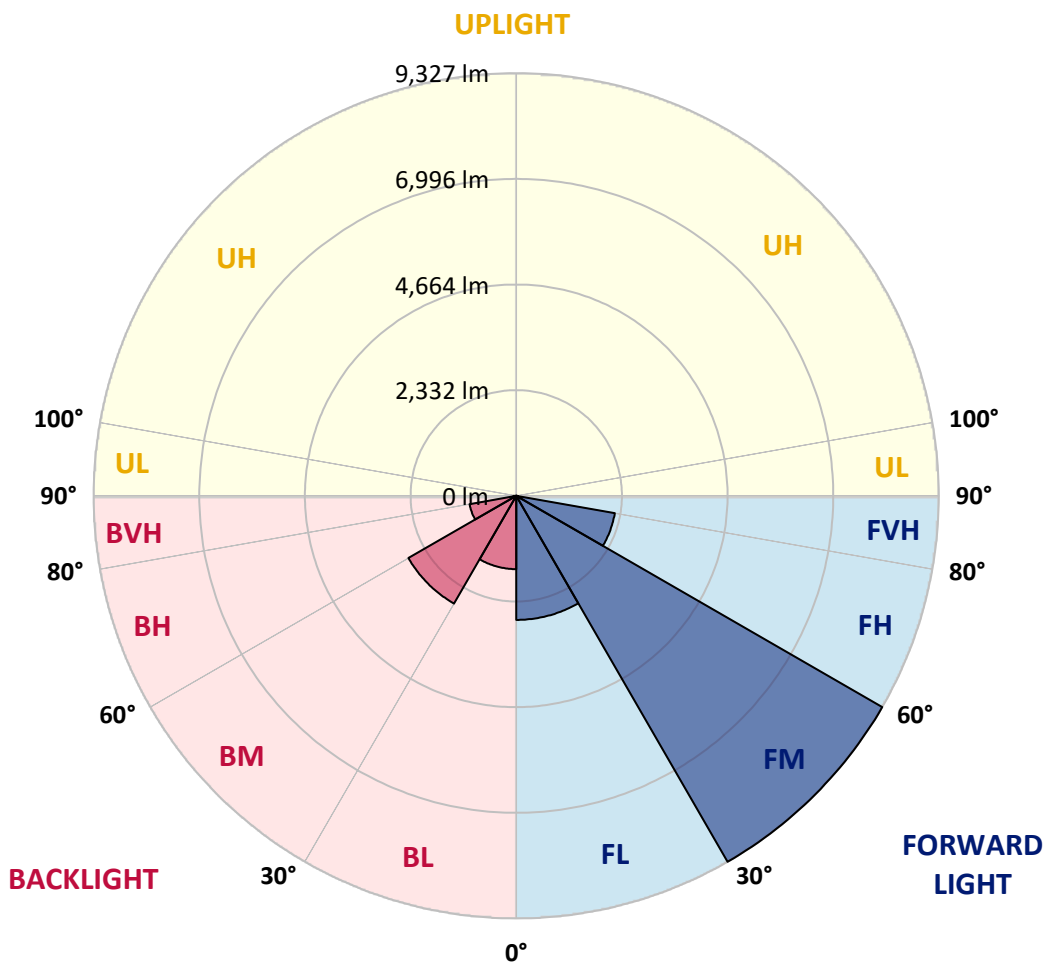


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.9	13.8			
FM (30°-60°)	9327.4	47.1			
FH (60°-80°)	2208.9	11.2			G2/5000
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	1618.0	8.2	B3/2500		
BM (30°-60°)	2747.6	13.9	B3/5000		
BH (60°-80°)	1045.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	63.0	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°	54°	55°	65°	75°	85°
0°	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4
2.5°	7910.0	7879.6	7884.6	7925.3	7874.5	7854.1	7854.1	7754.9	7762.5	7693.9	7676.1
5°	7726.9	7655.7	7704.1	7765.1	7775.3	7795.6	7828.7	7803.2	7732.0	7658.2	7538.7
7.5°	7248.7	7312.3	7330.2	7373.4	7465.0	7548.9	7653.2	7582.0	7579.4	7505.7	7434.4
10°	6829.1	6791.0	6887.6	6951.2	7103.8	7243.7	7403.9	7396.3	7434.4	7350.5	7228.4
12.5°	6412.0	6381.4	6427.3	6572.2	6785.9	6989.3	7180.1	7108.9	7312.3	7297.1	7035.1
15°	5969.4	5992.3	6058.5	6193.2	6473.0	6717.2	6958.9	6961.4	7141.9	7203.0	6852.0
17.5°	5659.1	5633.7	5717.6	5918.5	6167.8	6460.3	6735.0	6791.0	7068.2	7103.8	6796.0
20°	5427.6	5463.3	5572.6	5674.4	5961.8	6315.3	6625.7	6646.0	7053.0	7149.6	6707.1
22.5°	5371.7	5351.4	5386.9	5552.3	5788.9	6172.9	6567.1	6643.4	7050.4	7134.3	6539.1
25°	5313.2	5379.4	5376.8	5542.1	5715.1	6058.5	6615.5	6699.4	7185.2	7213.2	6562.1
27.5°	5445.5	5437.8	5509.1	5521.8	5735.5	6089.0	6717.2	6780.8	7409.0	7386.1	6579.8
30°	5577.8	5539.6	5582.8	5732.8	5832.1	6264.4	6997.0	6991.9	7698.9	7683.7	6635.8
32.5°	5740.5	5722.8	5750.7	5883.0	6050.8	6498.5	7233.5	7383.6	7994.0	8090.7	6829.1
35°	5771.0	5844.8	5910.9	6089.0	6328.0	6877.4	7678.6	7803.2	8334.8	8637.5	7197.9
37.5°	5964.4	5992.3	6147.5	6462.8	6681.6	7383.6	7960.9	8039.8	8645.1	8988.4	7587.1
40°	6170.3	6203.4	6437.4	6768.0	7068.2	7714.2	8225.5	8250.9	8744.3	9258.1	7841.4
42.5°	6450.1	6480.7	6712.1	7126.7	7528.5	7996.6	8459.5	8487.5	8736.6	9568.4	8245.8
45°	6740.1	6813.9	7086.0	7556.6	7917.7	8327.2	8512.9	8627.3	8807.9	9845.6	8573.9
47.5°	7147.1	7215.7	7439.5	7899.8	8322.1	8617.1	8759.6	8871.5	8978.3	10087.2	8785.0
50°	7579.4	7592.1	7864.3	8281.4	8591.7	8945.2	9220.0	9258.1	9202.1	10367.0	9143.6
52.5°	7897.3	7938.0	8149.1	8556.1	9019.0	9453.9	9830.4	9871.1	9761.7	10471.3	9265.7
55°	7370.9	7348.0	7691.4	8233.1	9306.4	10211.8	10758.7	10789.2	10168.6	10794.3	9665.0
57.5°	5697.3	5806.7	6099.1	6752.8	8268.7	10547.6	11475.9	11366.6	10657.0	10957.1	9919.3
60°	4140.7	4115.3	4311.1	4748.5	6231.4	9090.2	10850.2	10962.2	10257.7	9876.1	8179.7
62.5°	3372.6	3337.0	3352.2	3367.5	4021.2	6033.0	8032.1	8029.6	7899.8	7098.7	5516.7
65°	2696.0	2779.9	2787.6	2902.0	2986.0	3604.0	4654.5	4903.7	4270.4	3502.3	2540.9
67.5°	2032.2	2001.7	2103.4	2510.4	2668.1	2601.9	2540.9	2568.8	1826.1	1317.5	1241.2
70°	1197.9	1185.2	1307.3	1749.9	2197.5	2067.8	1915.2	1917.7	1253.9	920.7	1025.0
72.5°	656.2	653.6	679.1	887.7	1248.8	1297.2	1149.6	1185.2	747.7	745.2	801.2
75°	366.3	358.6	351.0	391.7	450.2	475.6	485.8	490.9	513.8	574.8	597.7
77.5°	134.8	129.7	129.7	150.0	190.7	239.1	302.7	307.7	363.7	417.1	440.0
80°	45.8	50.9	68.7	94.1	127.2	170.4	206.0	211.1	256.9	292.5	300.2
82.5°	28.0	30.5	45.8	66.1	91.6	119.5	152.6	155.2	190.7	213.6	223.8
85°	12.7	15.2	25.4	40.7	58.5	78.9	81.4	81.4	78.9	81.4	76.3
87.5°	0.0	0.0	5.0	5.0	5.0	7.7	10.2	7.7	12.7	15.2	15.2
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°	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4	7691.4
2.5°	7622.7	7594.7	7508.2	7431.9	7409.0	7307.3	7157.2	7175.0	7065.7	7116.5	7063.1
5°	7518.4	7424.3	7203.0	7108.9	6862.1	6750.3	6673.9	6483.2	6394.2	6376.4	6300.1
7.5°	7251.4	7192.8	6915.5	6661.2	6399.3	6175.5	5888.0	5692.2	5552.3	5514.2	5402.2
10°	7040.2	6910.5	6526.4	6139.8	5766.0	5376.8	5002.9	4710.4	4568.0	4402.6	4346.7
12.5°	6831.6	6635.8	6116.9	5621.0	5137.8	4646.9	4194.2	3838.1	3527.7	3454.0	3428.5
15°	6701.9	6361.1	5750.7	5153.0	4466.3	3825.3	3372.6	3138.6	2947.9	2869.0	2924.9
17.5°	6531.5	6134.8	5399.7	4603.6	3848.2	3258.1	2879.2	2734.2	2665.5	2673.1	2650.2
20°	6317.8	5921.1	4939.4	4105.1	3296.3	2825.8	2609.5	2556.1	2566.3	2584.1	2576.5
22.5°	6165.3	5661.7	4606.2	3596.4	2848.6	2586.7	2497.7	2459.5	2492.6	2507.8	2495.1
25°	6048.3	5440.4	4201.7	3146.2	2589.2	2451.9	2411.1	2408.6	2459.5	2479.9	2467.2
27.5°	5941.4	5234.4	3799.9	2802.9	2416.3	2347.6	2334.9	2365.4	2398.4	2418.8	2436.6
30°	5877.8	5076.7	3423.5	2515.4	2329.7	2296.7	2273.8	2301.8	2319.6	2339.9	2329.7
32.5°	5938.9	4964.8	3059.7	2352.7	2258.6	2225.5	2256.0	2238.2	2268.8	2286.5	2258.6
35°	6129.6	4865.6	2800.3	2266.2	2177.2	2189.9	2195.0	2187.4	2200.1	2184.8	2217.9
37.5°	6317.8	4829.9	2561.3	2192.4	2139.0	2139.0	2134.0	2118.6	2144.1	2139.0	2154.3
40°	6556.9	4852.8	2357.7	2113.6	2103.4	2098.3	2077.9	2075.4	2065.2	2067.8	2072.9
42.5°	6765.5	4903.7	2240.8	2062.7	2070.4	2080.5	2042.4	2011.8	2024.5	1999.1	1999.1
45°	6986.8	4949.5	2136.5	2027.1	2019.5	2017.0	1986.4	1968.6	1958.4	1961.0	1983.8
47.5°	7335.3	5015.6	2057.7	1978.8	1983.8	1945.7	1938.1	1915.2	1925.4	1940.6	1943.2
50°	7582.0	5155.5	1996.6	1922.9	1940.6	1915.2	1869.5	1859.3	1859.3	1884.7	1879.6
52.5°	7754.9	5351.4	1938.1	1861.8	1869.5	1849.1	1833.8	1810.9	1795.6	1831.3	1849.1
55°	8283.9	5676.9	1922.9	1810.9	1808.4	1788.1	1760.0	1737.2	1729.5	1734.6	1770.2
57.5°	8233.1	5575.2	1874.5	1721.9	1716.8	1688.8	1660.9	1653.2	1650.7	1655.8	1665.9
60°	6684.1	4117.8	1673.6	1620.2	1612.5	1607.5	1579.5	1549.0	1533.6	1549.0	1536.3
62.5°	4423.0	2757.1	1475.2	1498.1	1503.2	1490.4	1444.7	1414.1	1419.3	1437.0	1409.1
65°	2172.1	1620.2	1337.9	1398.9	1404.0	1368.4	1325.2	1289.5	1271.7	1287.0	1274.3
67.5°	1241.2	1238.6	1225.9	1289.5	1287.0	1251.4	1182.7	1152.2	1121.6	1126.8	1119.1
70°	1053.0	1073.4	1098.8	1136.9	1134.3	1093.6	1012.3	989.4	946.1	941.1	928.4
72.5°	829.1	864.8	920.7	948.7	925.8	875.0	821.5	783.4	745.2	722.3	730.0
75°	615.5	666.4	696.9	714.7	679.1	651.1	607.9	562.1	516.3	495.9	488.4
77.5°	447.7	462.9	490.9	503.6	480.7	452.7	427.3	381.5	338.3	310.3	302.7
80°	312.9	323.0	343.4	343.4	343.4	330.7	297.5	251.8	223.8	198.4	193.3
82.5°	218.7	228.9	249.3	239.1	236.6	221.3	200.9	165.3	134.8	117.0	111.9
85°	76.3	83.9	101.8	122.1	129.7	127.2	114.5	91.6	71.2	58.5	53.4
87.5°	17.8	17.8	20.4	17.8	17.8	20.4	17.8	17.8	17.8	12.7	10.2
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)