

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: P646909

Luminaire Tested: **GALN-SA4C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22193.3 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

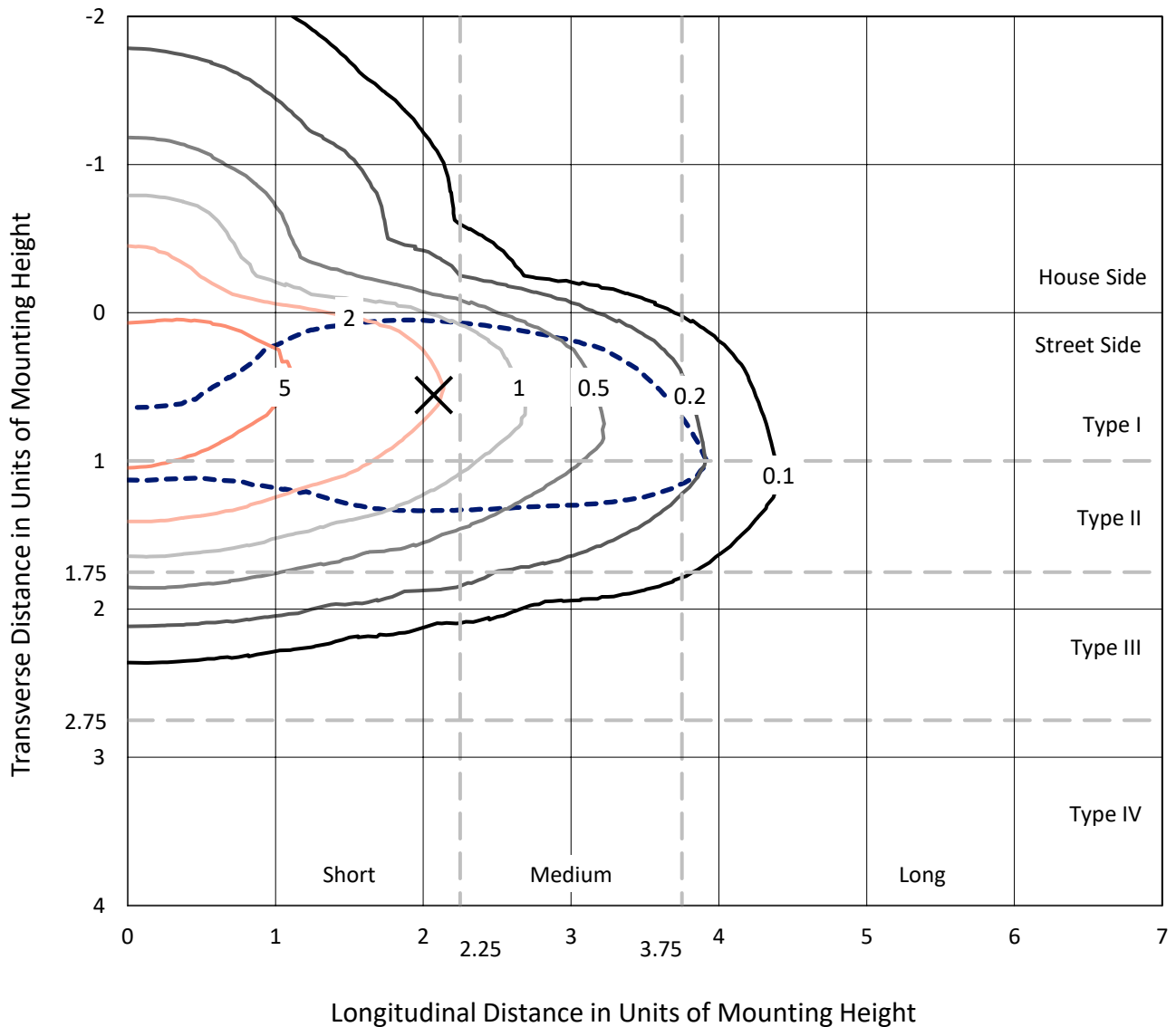
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

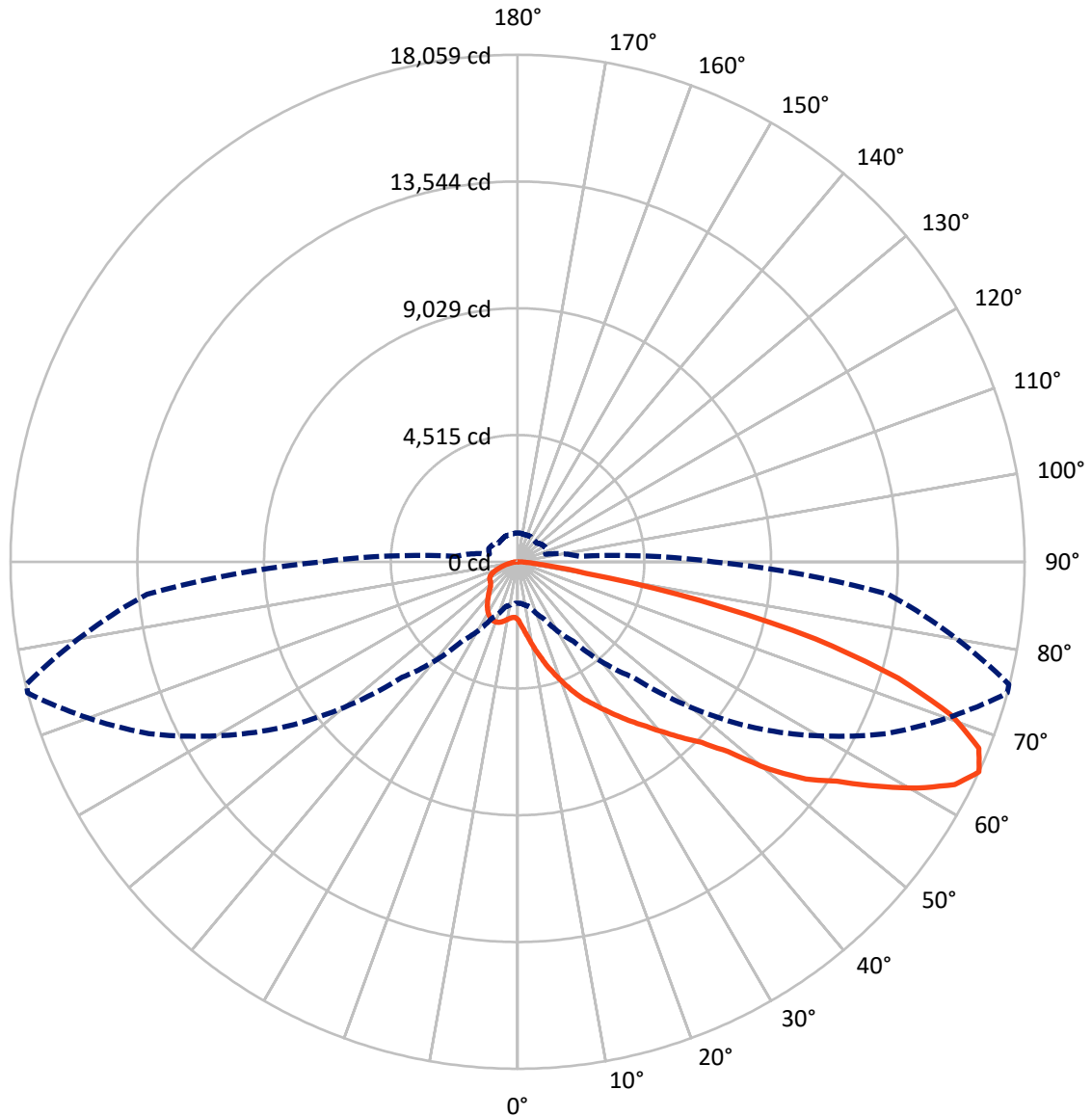
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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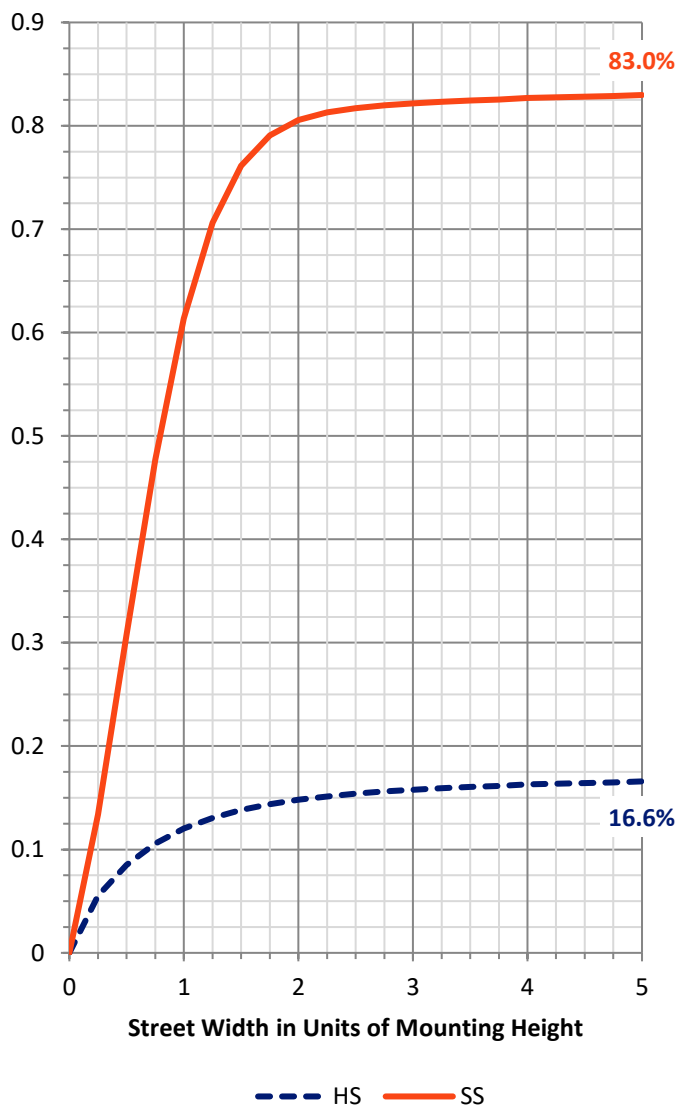
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3731.0	0.0	3731.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18462.4	0.0	18462.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	22193.3	0.0	22193.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.1
10°-20°	981.3	4.4
20°-30°	1895.5	8.5
30°-40°	3078.9	13.9
40°-50°	4235.3	19.1
50°-60°	5000.5	22.5
60°-70°	4381.3	19.7
70°-80°	2091.6	9.4
80°-90°	278.3	1.3
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°	22193.3	100.0
0°-180°	22193.3	100.0

Coefficient of Utilization



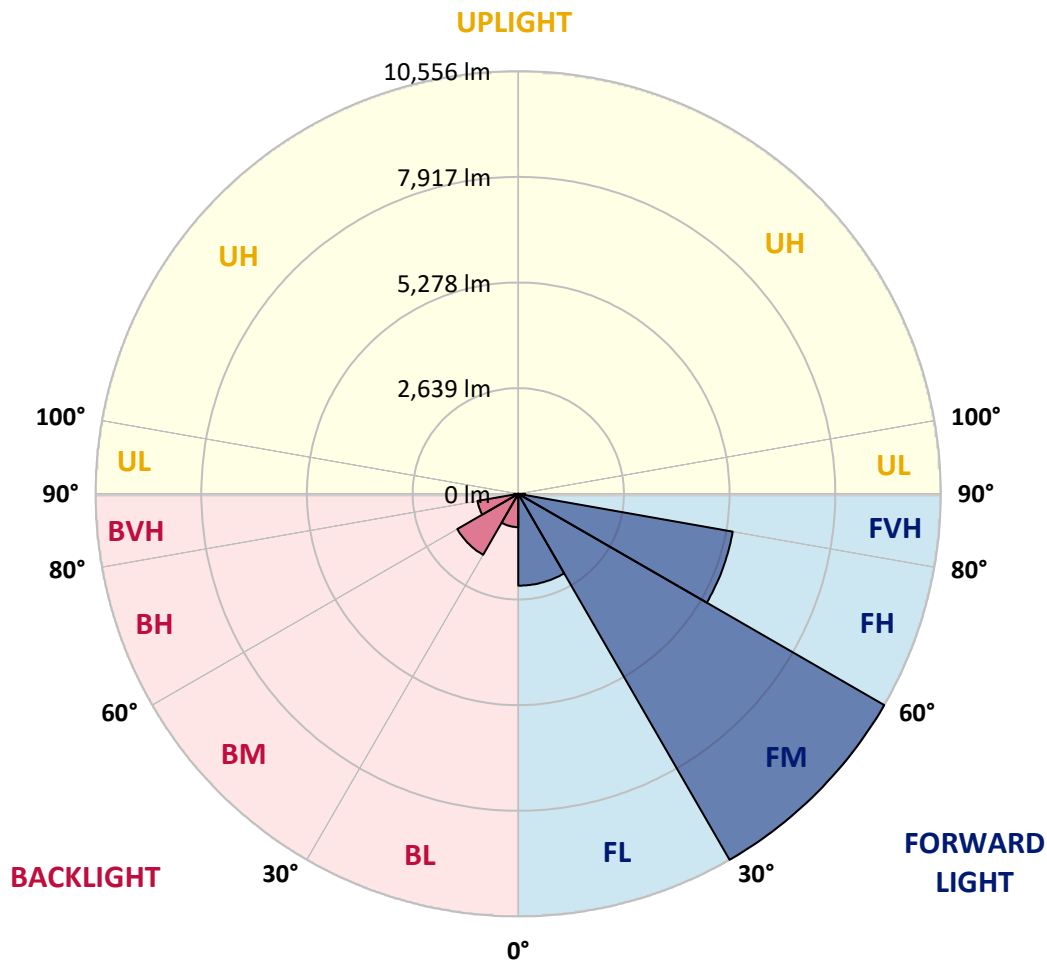
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.4	10.3			
FM (30°-60°)	10555.6	47.6			
FH (60°-80°)	5438.4	24.5			G3/7500
FVH (80°-90°)	173.9	0.8			G2/225
BL (0°-30°)	832.9	3.8	B2/1000		
BM (30°-60°)	1759.1	7.9	B2/2500		
BH (60°-80°)	1034.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	104.4	0.5			G2/225
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°	55°	65°	75°	76°	85°
0°	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	2739.8	2721.7	2702.4	2649.5	2592.9	2529.1	2437.6	2349.7	2233.0	2229.4	2142.7
5°	3499.3	3487.3	3401.8	3352.5	3221.3	3046.7	2898.7	2668.8	2455.6	2430.4	2261.9
7.5°	4197.5	4150.6	4118.0	4029.0	3898.9	3675.1	3388.6	3078.1	2721.7	2688.0	2408.7
10°	4723.5	4718.7	4701.9	4624.9	4527.4	4304.6	3986.9	3541.4	3058.8	2992.5	2586.9
12.5°	5117.2	5120.8	5118.4	5117.2	5047.4	4858.4	4514.1	4044.7	3399.4	3352.5	2792.7
15°	5376.0	5412.1	5426.6	5486.7	5492.7	5366.4	5070.2	4531.0	3783.5	3713.6	3014.2
17.5°	5546.9	5565.0	5632.4	5734.7	5817.8	5794.9	5531.3	4981.1	4175.8	4059.1	3244.1
20°	5710.7	5742.0	5793.7	5933.3	6080.2	6147.6	5962.2	5442.2	4564.7	4490.0	3498.1
22.5°	6051.3	6095.8	6113.9	6184.9	6310.1	6429.3	6345.0	5884.0	4990.8	4889.7	3767.8
25°	6627.9	6674.8	6624.3	6607.4	6648.4	6707.3	6689.3	6300.5	5392.8	5248.4	4023.0
27.5°	7379.1	7385.1	7286.4	7192.5	7091.3	7061.3	7005.9	6670.1	5742.0	5621.5	4279.4
30°	8185.6	8156.7	7992.9	7823.3	7652.3	7483.8	7324.9	7026.3	6130.7	5992.3	4531.0
32.5°	8934.3	8918.7	8736.9	8473.3	8184.4	8025.4	7704.1	7386.3	6547.3	6413.6	4789.8
35°	9495.3	9518.1	9318.3	9030.7	8715.3	8574.4	8168.7	7764.2	6978.2	6832.5	5071.4
37.5°	9893.7	9881.7	9704.7	9455.5	9178.6	9055.9	8711.6	8177.2	7441.6	7302.0	5379.6
40°	10035.8	10028.5	9897.4	9715.5	9539.8	9496.5	9279.8	8622.6	7972.5	7808.8	5750.4
42.5°	9945.5	9961.1	9874.4	9825.1	9792.6	9823.9	9844.3	9206.4	8551.5	8401.0	6152.4
45°	9668.6	9660.2	9648.1	9728.8	9911.8	10117.6	10402.9	9757.7	9181.1	9060.7	6691.7
47.5°	9173.9	9234.1	9264.1	9486.8	9886.5	10374.0	11045.7	10496.8	10094.7	9990.0	7513.9
50°	8481.7	8529.8	8708.0	9104.0	9699.9	10470.3	11674.1	11705.4	11618.7	11422.5	8407.1
52.5°	7400.8	7475.4	7842.5	8568.4	9317.1	10430.6	12054.4	12741.8	12856.2	12709.3	9287.0
55°	6190.9	6295.6	6683.3	7635.4	8789.9	10213.9	12316.9	13342.5	13798.7	13662.7	10134.4
57.5°	5006.4	5117.2	5515.6	6437.7	7870.2	9734.8	12489.0	14011.8	15081.9	14905.0	11189.0
60°	3752.1	3867.7	4209.6	5159.3	6560.5	8798.3	12372.3	14592.0	16363.9	16288.1	12244.6
62.5°	2420.8	2548.4	2845.7	3631.7	5042.5	7518.7	11747.5	14912.2	17473.8	17382.3	13015.0
65°	1474.6	1489.0	1652.8	2254.6	3451.2	5821.4	10318.6	14487.3	18058.8	18031.2	13249.8
67.5°	953.4	976.2	1050.9	1350.6	2069.2	4043.4	8250.5	13084.9	17716.9	17707.3	12764.7
70°	805.3	812.5	846.3	911.3	1202.5	2452.0	5793.7	10849.5	16418.1	16418.1	11598.3
72.5°	719.8	729.4	741.5	762.0	858.2	1389.1	3457.2	8445.6	14175.5	14269.4	9872.1
75°	653.6	651.2	658.4	662.1	731.9	907.7	1787.6	6246.3	10966.2	10778.5	7149.1
77.5°	559.8	563.4	559.8	575.4	646.4	691.0	907.7	4191.5	6645.9	6402.8	3588.4
80°	459.9	465.9	471.8	481.5	552.6	524.8	545.3	1910.4	2458.1	2406.3	1108.6
82.5°	345.5	353.9	363.5	386.4	434.6	346.7	344.3	816.1	887.1	812.5	408.1
85°	139.6	164.9	249.2	272.0	273.3	190.2	211.9	340.7	362.3	353.9	160.1
87.5°	32.5	38.5	80.6	121.6	112.0	71.0	78.2	110.7	126.4	116.7	54.2
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°	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	2103.0	2060.9	1988.6	1933.2	1893.5	1858.6	1836.9	1823.7	1818.9	1817.7	1818.9
5°	2174.0	2099.4	1985.0	1912.8	1873.0	1850.2	1836.9	1835.7	1836.9	1838.2	1834.6
7.5°	2271.5	2164.4	2015.1	1947.7	1917.6	1900.7	1894.7	1892.3	1893.5	1892.3	1892.3
10°	2401.5	2254.6	2074.1	2004.2	1979.0	1959.7	1950.1	1944.1	1939.3	1934.5	1932.1
12.5°	2544.8	2354.6	2137.9	2070.5	2034.4	2004.2	1982.6	1967.0	1956.1	1945.3	1942.9
15°	2704.9	2460.5	2208.9	2115.0	2063.3	2018.7	1981.4	1956.1	1936.8	1921.2	1920.0
17.5°	2857.7	2560.4	2257.1	2135.5	2059.6	1997.0	1947.7	1912.8	1888.7	1868.2	1865.8
20°	3021.4	2655.5	2278.7	2122.2	2023.5	1947.7	1882.6	1840.5	1812.9	1790.0	1786.4
22.5°	3186.3	2736.1	2276.3	2080.1	1960.9	1871.8	1803.2	1758.7	1726.2	1703.3	1694.9
25°	3344.0	2801.2	2246.2	2012.7	1874.3	1781.6	1711.7	1670.8	1642.0	1614.2	1614.2
27.5°	3486.1	2839.7	2189.7	1930.8	1785.2	1687.7	1632.3	1595.0	1568.5	1550.4	1539.6
30°	3625.8	2857.7	2112.6	1827.3	1691.3	1608.2	1563.7	1542.0	1517.9	1497.5	1495.1
32.5°	3750.9	2854.1	2016.3	1726.2	1602.2	1543.2	1525.1	1508.3	1483.0	1454.1	1446.9
35°	3872.5	2830.1	1901.9	1615.5	1527.6	1504.7	1509.5	1485.4	1439.7	1403.6	1397.6
37.5°	4004.9	2786.7	1776.8	1525.1	1465.0	1486.7	1498.7	1445.7	1371.1	1314.5	1301.3
40°	4157.8	2737.4	1646.7	1434.8	1415.6	1469.8	1469.8	1372.3	1269.9	1235.0	1225.4
42.5°	4337.1	2696.4	1538.4	1359.1	1374.7	1428.9	1422.9	1274.8	1232.7	1214.6	1209.8
45°	4621.3	2682.0	1426.5	1292.8	1341.0	1380.7	1331.3	1241.1	1217.0	1202.5	1197.8
47.5°	5070.2	2698.8	1327.7	1243.5	1302.4	1332.6	1229.1	1218.2	1201.4	1180.9	1178.5
50°	5486.7	2683.2	1258.0	1215.8	1268.8	1274.8	1186.9	1190.6	1180.9	1158.1	1153.2
52.5°	5827.4	2633.9	1213.4	1201.4	1239.9	1173.6	1147.2	1160.4	1156.8	1127.9	1123.1
55°	6201.8	2603.7	1191.7	1201.4	1220.6	1085.8	1109.9	1129.2	1124.3	1103.9	1102.6
57.5°	6655.6	2609.7	1176.1	1205.0	1201.4	1041.2	1072.6	1095.4	1094.2	1088.2	1088.2
60°	7120.2	2612.2	1152.0	1203.8	1178.5	1006.3	1034.0	1066.5	1069.0	1072.6	1072.6
62.5°	7274.3	2507.4	1105.0	1182.1	1127.9	972.6	997.9	1042.5	1040.1	1049.7	1050.9
65°	6986.6	2217.3	1035.2	1132.8	1062.9	948.5	970.2	1011.2	997.9	1023.2	1028.0
67.5°	6359.4	1834.6	926.9	1043.7	990.7	923.3	952.2	967.8	943.7	993.1	994.3
70°	5496.3	1432.5	789.7	917.3	908.8	896.8	937.7	913.7	879.9	940.1	928.1
72.5°	4596.0	1094.2	630.8	750.0	799.3	857.1	912.4	843.8	796.9	814.9	793.3
75°	3452.4	808.9	506.8	587.4	665.7	800.5	889.6	759.6	687.3	670.5	665.7
77.5°	1759.9	528.4	379.2	439.3	499.6	723.5	858.2	660.9	569.4	542.9	530.9
80°	628.4	328.6	267.2	303.3	337.1	622.3	750.0	546.5	441.8	437.0	441.8
82.5°	291.3	211.9	179.4	198.6	199.8	415.3	571.8	408.1	335.8	510.4	431.0
85°	125.2	105.9	101.1	98.7	91.5	185.4	321.4	219.1	341.9	152.8	140.9
87.5°	37.3	42.1	37.3	27.7	20.4	20.4	32.5	12.1	8.5	6.0	6.0
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)