

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: P650921

Luminaire Tested: **GALN-SA5C-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19582.7 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

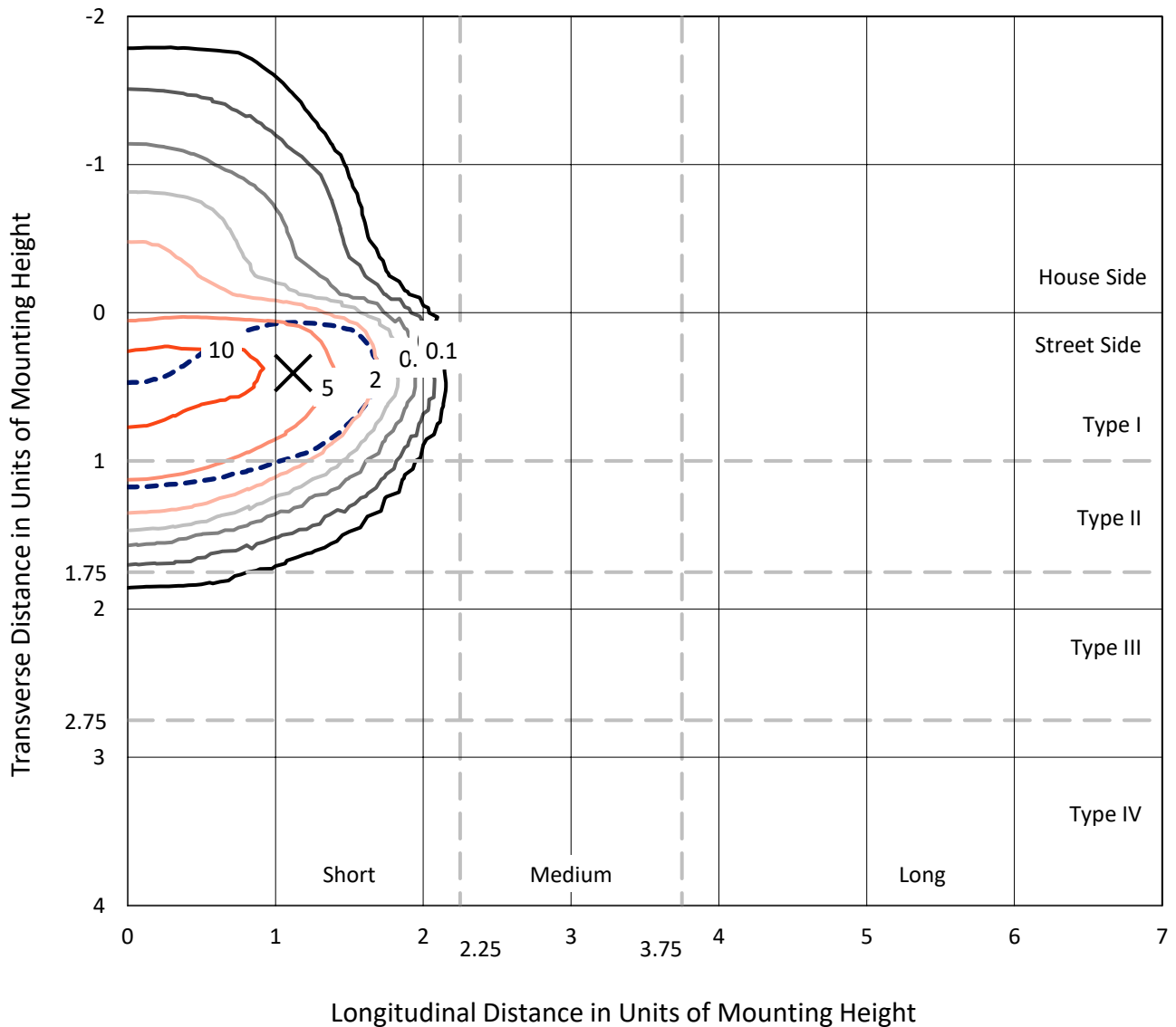
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650921
 CATALOG NUMBER: GALN-SA5C-840-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

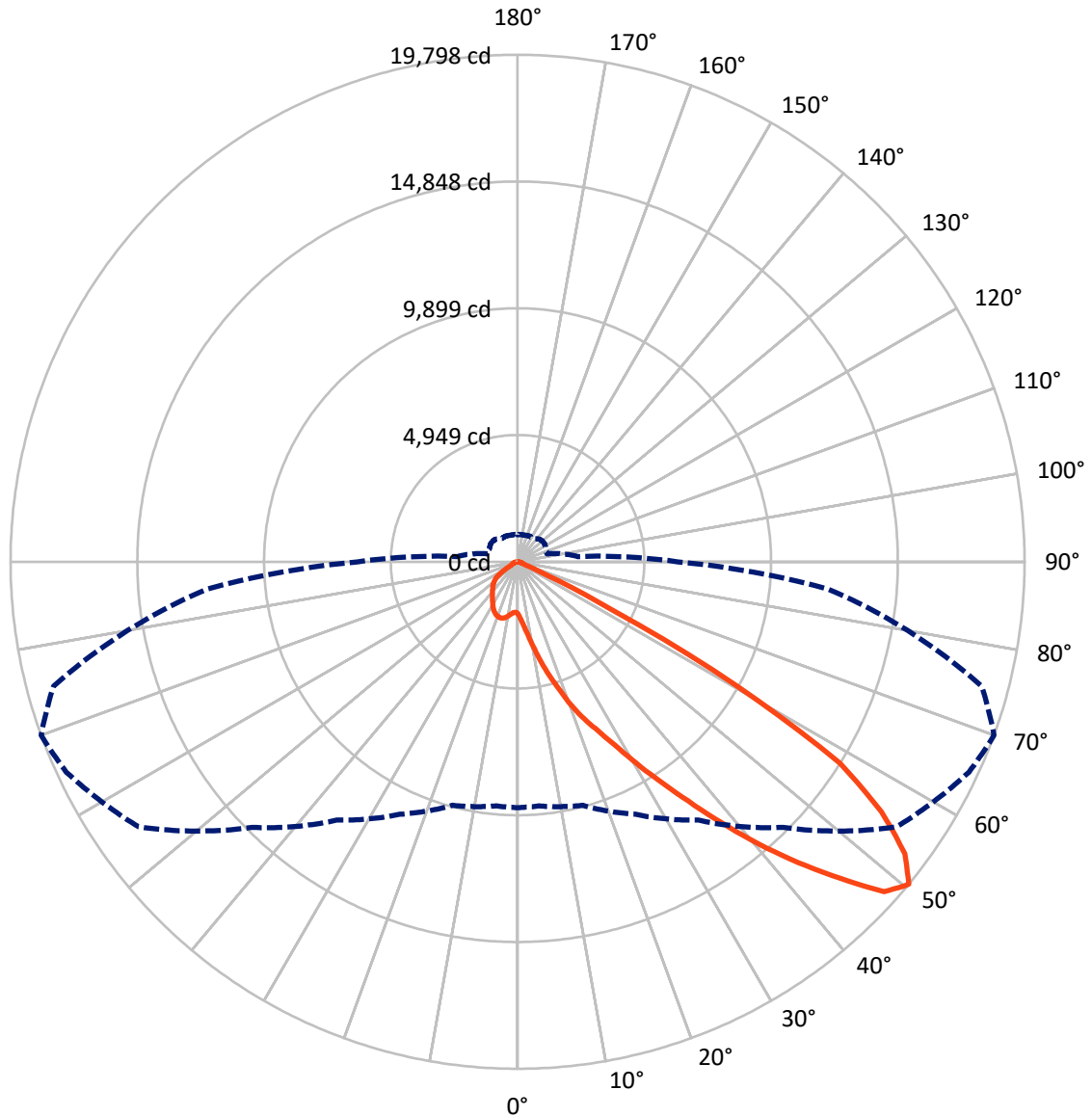
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type I - Short - N/A

REPORT NUMBER: P650921
CATALOG NUMBER: GALN-SA5C-840-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P650921
 CATALOG NUMBER: GALN-SA5C-840-U-T2R-GRSBK

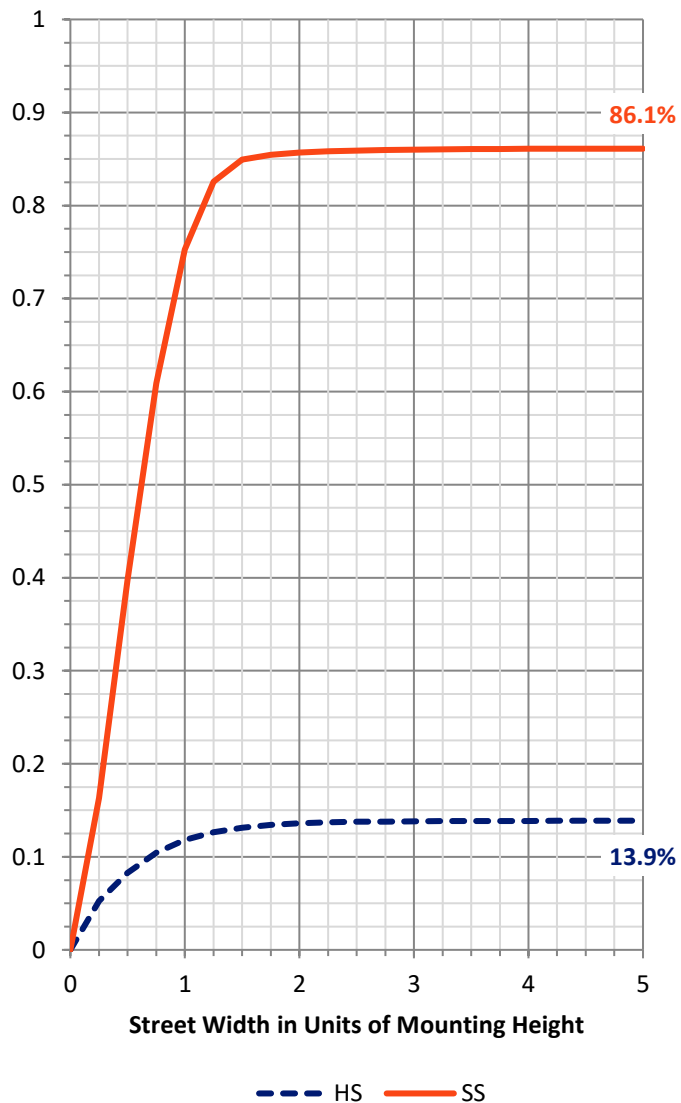
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2734.9	0.0	2734.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16847.8	0.0	16847.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	19582.7	0.0	19582.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.3
10°-20°	1140.9	5.8
20°-30°	2393.5	12.2
30°-40°	4125.6	21.1
40°-50°	6029.5	30.8
50°-60°	4696.0	24.0
60°-70°	795.6	4.1
70°-80°	109.3	0.6
80°-90°	28.3	0.1
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°	19582.7	100.0
0°-180°	19582.7	100.0

Coefficient of Utilization



REPORT NUMBER: P650921

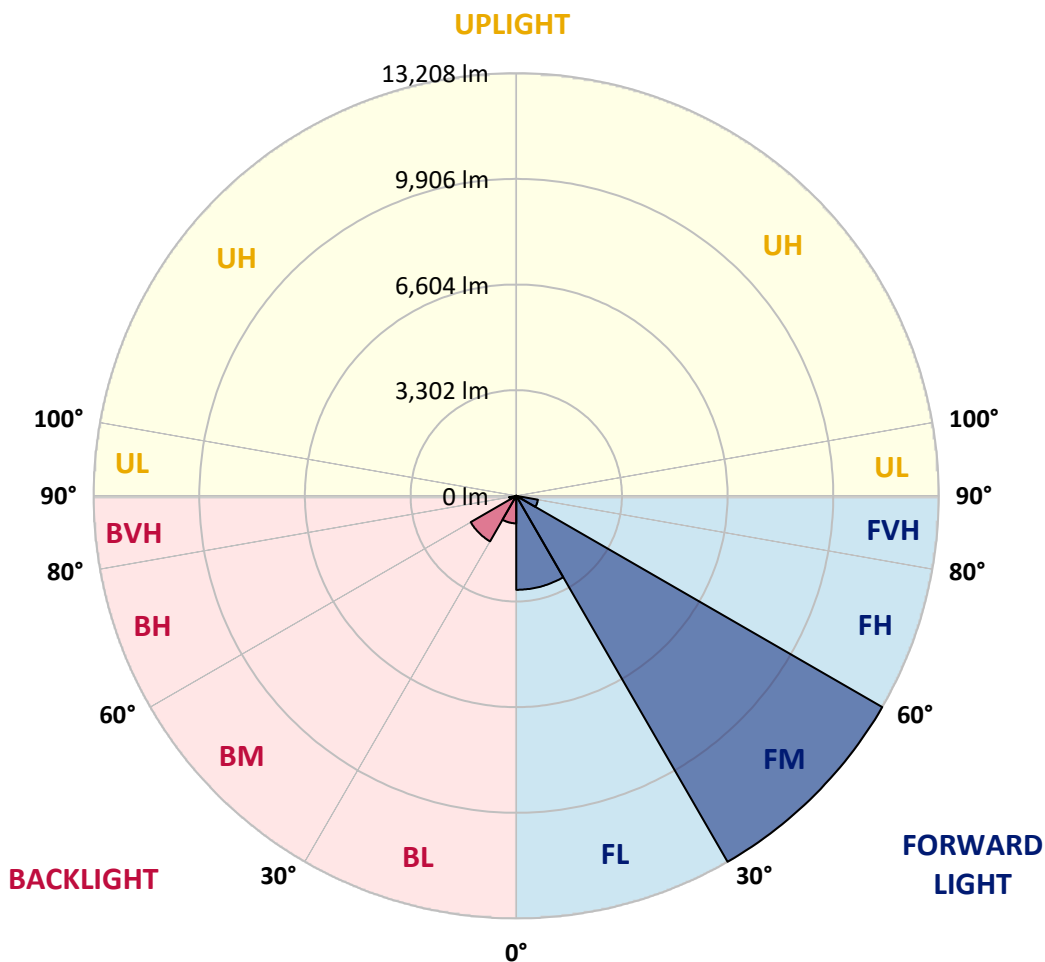
CATALOG NUMBER: GALN-SA5C-840-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2937.6	15.0			
FM (30°-60°)	13208.2	67.4			
FH (60°-80°)	688.9	3.5			G1/1800
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	860.6	4.4	B2/1000		
BM (30°-60°)	1643.0	8.4	B2/2500		
BH (60°-80°)	216.0	1.1	B1/500		G1/500
BVH (80°-90°)	15.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





REPORT NUMBER: P650921

CATALOG NUMBER: GALN-SA5C-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4
2.5°	2656.2	2636.9	2595.1	2517.8	2485.6	2408.3	2363.2	2276.3	2221.6	2160.4	2092.7
5°	3741.3	3641.4	3580.2	3493.3	3238.9	3081.2	2820.4	2598.3	2495.2	2382.6	2228.0
7.5°	4861.7	4797.3	4713.6	4526.9	4352.9	4024.6	3577.0	3087.6	2878.4	2685.2	2379.4
10°	5788.9	5608.6	5599.0	5460.5	5270.5	4877.8	4340.1	3731.6	3358.1	3074.8	2595.1
12.5°	6436.1	6271.8	6345.9	6329.9	6152.8	5792.1	5170.7	4365.9	3976.2	3535.1	2817.2
15°	7025.3	6957.7	6935.1	6915.8	6845.0	6577.7	6020.7	5138.6	4575.1	4043.9	3068.3
17.5°	7601.6	7427.7	7511.5	7527.5	7521.1	7279.6	6758.0	5872.6	5209.4	4581.6	3332.4
20°	8113.5	8129.6	8016.9	7994.4	7975.1	7965.4	7456.7	6600.3	5988.6	5145.0	3676.9
22.5°	8770.4	8657.7	8757.4	8693.1	8567.5	8490.2	8100.7	7244.2	6664.7	5824.3	4027.8
25°	9546.3	9636.4	9401.4	9375.6	9237.2	8969.9	8619.0	7965.4	7315.0	6455.4	4407.7
27.5°	10502.5	10344.7	10283.6	10141.9	9890.7	9778.1	9366.0	8709.1	8100.7	7118.6	4774.8
30°	11323.5	11281.7	10975.8	10808.4	10589.5	10586.3	10009.9	9716.9	9124.5	8158.6	5280.2
32.5°	11993.2	11809.7	11697.0	11581.1	11404.0	11452.3	10966.1	10811.6	10216.0	9124.5	5875.9
35°	12440.7	12308.7	12241.1	12064.1	12012.5	12228.2	12025.4	11961.0	11471.7	10483.1	6574.5
37.5°	12582.4	12624.3	12611.4	12389.2	12498.7	13081.4	13342.2	13174.9	12917.3	11916.0	7331.2
40°	12707.9	12736.9	12672.5	12933.3	13245.7	13908.9	14852.2	14575.4	14478.7	13368.0	8384.0
42.5°	12778.8	12756.3	12756.3	13207.0	13680.3	15013.2	16310.8	16127.3	16053.2	14913.5	9601.0
45°	12473.0	12254.0	12489.0	13100.8	14053.8	15557.3	17476.2	17730.6	17624.3	16751.9	11024.1
47.5°	11330.0	11465.2	11597.2	12415.0	13599.8	15390.0	18191.0	19057.1	19253.5	18297.3	11957.8
50°	9601.0	9572.0	9845.7	10876.0	12315.2	14668.7	18052.6	19440.2	19797.6	18760.9	12154.2
52.5°	6983.4	7195.9	7492.1	8516.0	10222.4	12801.4	16265.7	18451.8	18928.3	18191.0	12025.4
55°	4066.4	3831.3	4497.8	5363.9	6973.7	9655.8	13751.1	16355.9	17238.0	17154.3	11375.0
57.5°	1629.2	1577.6	1806.2	2434.0	3638.2	5985.3	10000.2	13438.8	14852.2	15711.9	9997.1
60°	714.8	698.7	821.0	991.6	1487.5	2759.2	5470.2	8358.2	9832.8	10979.0	6880.4
62.5°	515.1	508.7	569.9	631.1	785.6	1200.9	2298.8	3367.8	4198.4	5071.0	3081.2
65°	415.4	431.4	473.3	505.5	579.5	666.5	811.3	937.0	1149.4	1191.3	679.4
67.5°	338.1	350.9	389.6	425.0	437.9	360.6	373.5	328.4	328.4	293.0	235.1
70°	247.9	251.1	296.2	338.1	270.5	144.9	254.3	254.3	228.6	218.9	199.7
72.5°	183.5	186.7	222.2	209.2	106.2	90.2	186.7	206.0	186.7	177.1	161.0
75°	135.2	138.4	115.9	48.3	45.1	57.9	109.5	141.6	135.2	132.0	122.4
77.5°	25.7	19.3	16.1	22.5	32.2	48.3	70.8	87.0	90.2	96.6	90.2
80°	3.2	3.2	9.7	19.3	35.4	51.6	74.1	83.7	87.0	90.2	83.7
82.5°	0.0	3.2	9.7	19.3	35.4	48.3	64.4	74.1	80.5	83.7	80.5
85°	0.0	3.2	6.5	16.1	29.0	35.4	32.2	22.5	19.3	22.5	16.1
87.5°	0.0	0.0	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650921

CATALOG NUMBER: GALN-SA5C-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4
2.5°	2054.1	2041.3	1996.2	1947.9	1906.0	1925.4	1906.0	1889.9	1896.4	1889.9	1883.5
5°	2166.8	2108.9	2012.3	1970.5	1935.0	1931.8	1922.1	1918.9	1922.1	1922.1	1893.2
7.5°	2273.1	2179.7	2076.7	2031.6	1989.7	1993.0	1970.5	1970.5	1967.2	1951.1	1944.6
10°	2434.0	2308.5	2176.5	2096.0	2044.5	2034.8	2012.3	1989.7	1989.7	1989.7	1957.5
12.5°	2611.1	2453.4	2273.1	2179.7	2118.6	2070.2	2034.8	2028.4	1993.0	1986.5	1970.5
15°	2765.7	2566.1	2337.5	2208.7	2131.4	2067.0	2012.3	1976.9	1960.8	1951.1	1938.3
17.5°	2917.0	2662.7	2372.9	2208.7	2125.0	2050.9	1993.0	1960.8	1922.1	1928.6	1902.8
20°	3119.9	2765.7	2382.6	2166.8	2063.8	1993.0	1915.7	1899.6	1877.0	1857.8	1864.2
22.5°	3316.2	2839.7	2353.5	2115.3	1967.2	1883.5	1844.9	1825.6	1815.9	1799.8	1777.3
25°	3493.3	2920.2	2308.5	2021.9	1864.2	1803.0	1767.6	1764.3	1741.8	1741.8	1700.0
27.5°	3673.7	2949.2	2231.3	1912.4	1774.0	1738.6	1722.5	1716.1	1706.4	1683.9	1654.9
30°	3879.7	2958.9	2118.6	1799.8	1693.5	1654.9	1677.5	1693.5	1651.6	1609.8	1622.7
32.5°	4050.3	2936.4	1983.3	1693.5	1635.6	1616.2	1661.3	1677.5	1629.2	1584.1	1561.6
35°	4256.4	2881.6	1851.3	1609.8	1577.6	1616.2	1654.9	1654.9	1558.3	1503.5	1490.7
37.5°	4568.6	2820.4	1728.9	1539.0	1516.5	1597.0	1648.4	1613.0	1461.7	1394.1	1378.0
40°	4903.5	2781.8	1609.8	1468.1	1484.3	1564.8	1593.7	1484.3	1329.7	1287.8	1275.0
42.5°	5389.7	2704.5	1503.5	1407.0	1455.3	1519.7	1519.7	1323.3	1265.3	1242.7	1239.5
45°	5995.0	2649.7	1410.2	1355.4	1413.5	1429.5	1378.0	1239.5	1197.8	1191.3	1194.5
47.5°	6291.2	2543.5	1313.6	1294.3	1336.2	1339.4	1204.1	1171.9	1136.5	1126.9	1120.5
50°	6246.1	2353.5	1188.1	1213.8	1271.8	1239.5	1097.9	1104.3	1072.1	1068.9	1052.8
52.5°	5930.6	2054.1	1062.5	1123.7	1188.1	1094.6	1011.0	1004.5	1004.5	962.7	946.5
55°	5257.7	1654.9	911.1	988.4	1065.7	920.8	898.3	891.9	875.7	837.1	827.5
57.5°	4163.0	1213.8	685.8	769.5	904.7	782.4	779.2	750.2	708.3	679.4	679.4
60°	2475.9	698.7	431.4	470.0	598.9	634.3	705.1	692.2	621.4	576.3	563.5
62.5°	1130.1	360.6	273.7	280.1	321.9	412.1	553.8	640.7	540.9	463.6	457.2
65°	379.9	267.3	225.4	215.7	222.2	247.9	331.6	454.0	431.4	357.3	344.5
67.5°	231.8	238.3	212.5	196.4	196.4	193.2	190.0	206.0	254.3	247.9	251.1
70°	199.7	218.9	196.4	177.1	170.6	161.0	135.2	112.7	96.6	112.7	119.1
72.5°	161.0	173.8	167.4	151.3	135.2	122.4	96.6	74.1	54.7	48.3	48.3
75°	119.1	128.8	135.2	115.9	103.0	87.0	70.8	48.3	29.0	19.3	19.3
77.5°	87.0	96.6	99.8	90.2	77.3	61.1	45.1	32.2	16.1	6.5	6.5
80°	74.1	87.0	96.6	90.2	80.5	57.9	41.9	22.5	12.9	3.2	3.2
82.5°	70.8	87.0	96.6	87.0	77.3	54.7	41.9	25.7	9.7	3.2	3.2
85°	16.1	22.5	29.0	35.4	41.9	41.9	32.2	19.3	9.7	3.2	3.2
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	3.2	3.2	0.0
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)