

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: P648501

Luminaire Tested: **GALN-SA6B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648501
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-SA6B-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA 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: 17473.4 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

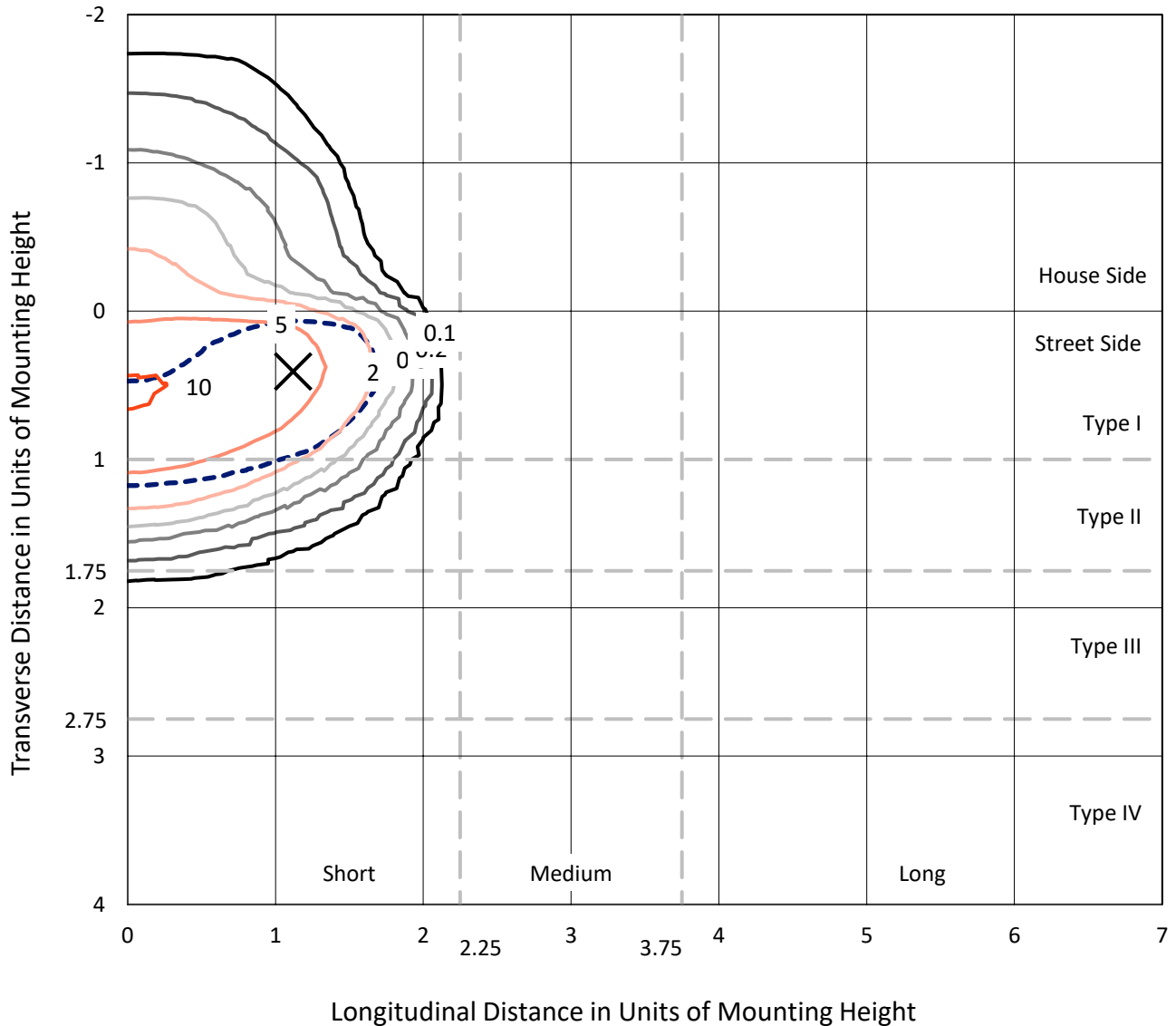
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648501
 CATALOG NUMBER: GALN-SA6B-835-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

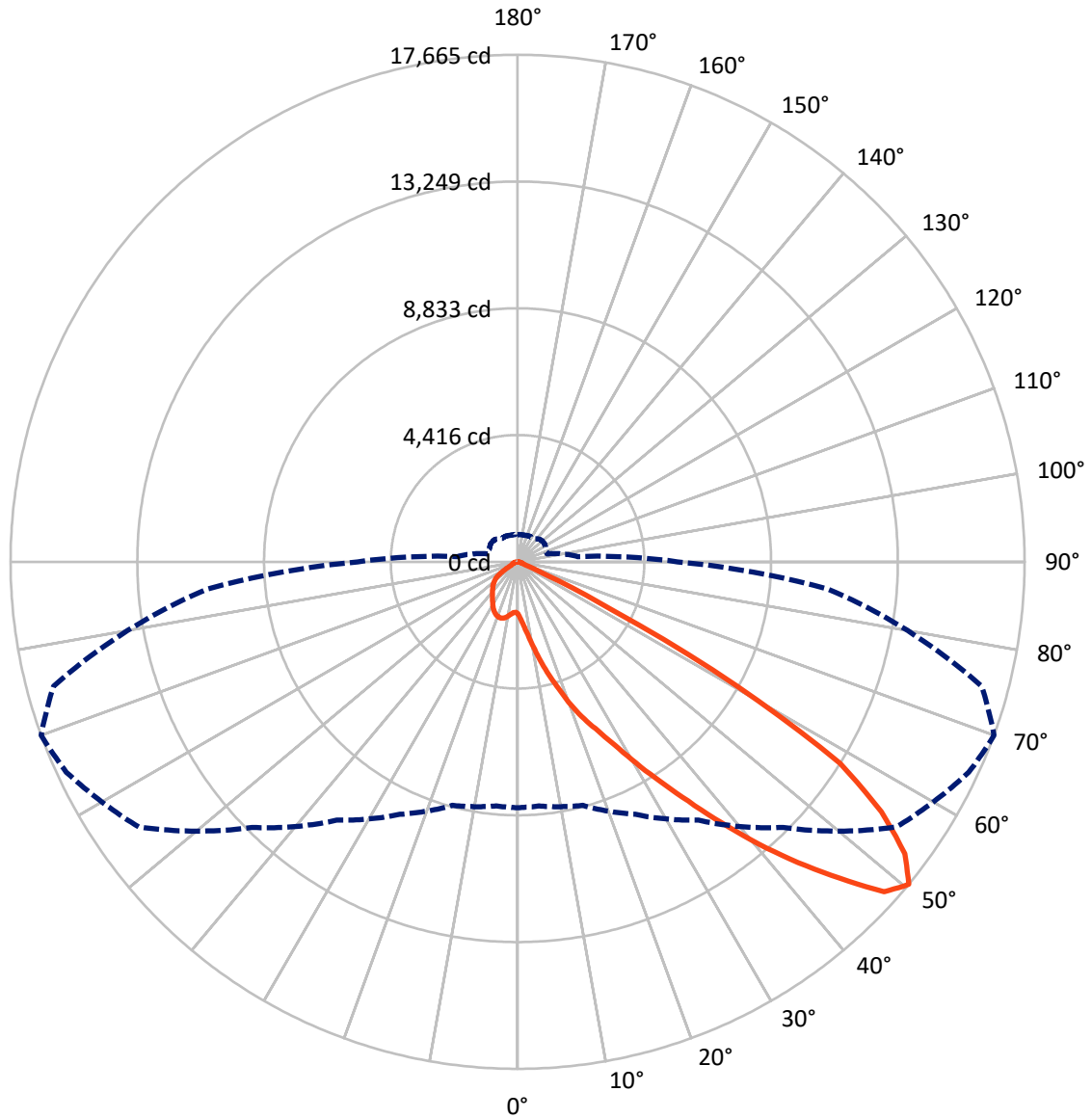
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type I - Short - N/A

REPORT NUMBER: P648501
CATALOG NUMBER: GALN-SA6B-835-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648501
 CATALOG NUMBER: GALN-SA6B-835-U-T2R-GRSBK

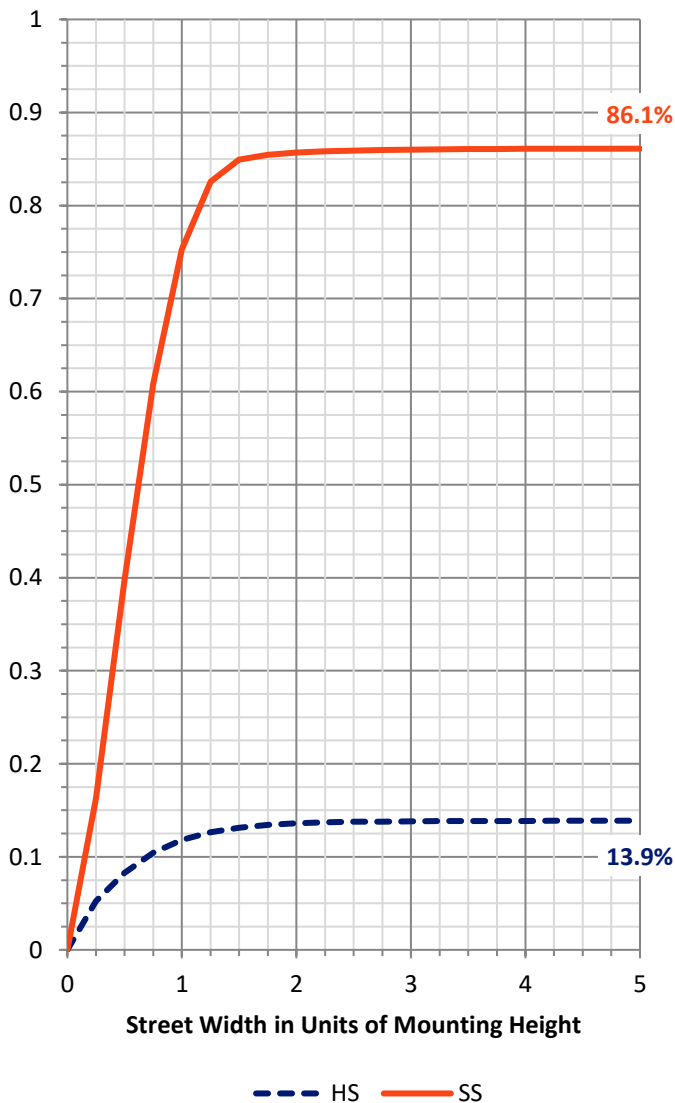
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2440.3	0.0	2440.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15033.1	0.0	15033.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	17473.4	0.0	17473.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	1.3
10°-20°	1018.1	5.8
20°-30°	2135.7	12.2
30°-40°	3681.2	21.1
40°-50°	5380.1	30.8
50°-60°	4190.2	24.0
60°-70°	709.9	4.1
70°-80°	97.5	0.6
80°-90°	25.3	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°	17473.4	100.0
0°-180°	17473.4	100.0

Coefficient of Utilization



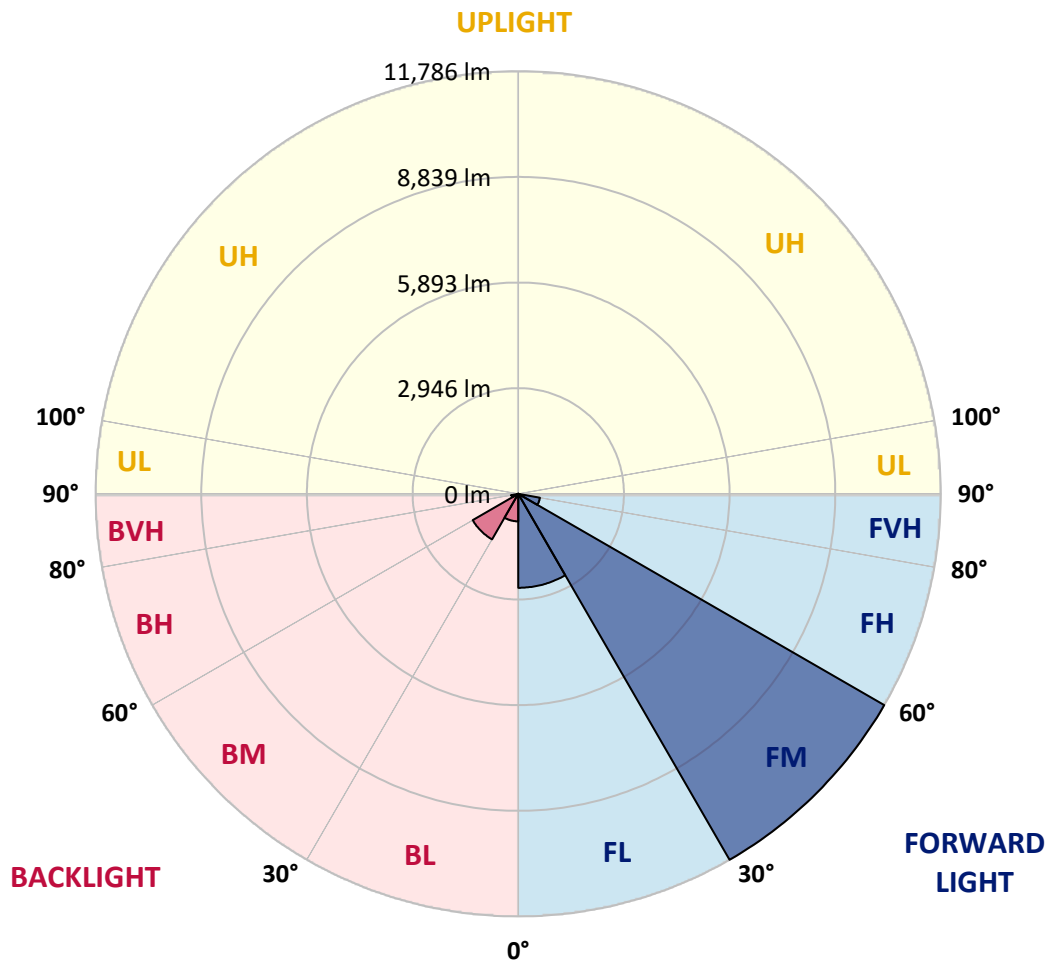
REPORT NUMBER: P648501
 CATALOG NUMBER: GALN-SA6B-835-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2621.2	15.0			
FM (30°-60°)	11785.5	67.4			
FH (60°-80°)	614.7	3.5			G0/660
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	767.9	4.4	B2/1000		
BM (30°-60°)	1466.0	8.4	B2/2500		
BH (60°-80°)	192.8	1.1	B1/500		G1/500
BVH (80°-90°)	13.6	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: P648501

CATALOG NUMBER: GALN-SA6B-835-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9
2.5°	2370.1	2352.8	2315.6	2246.6	2217.8	2148.9	2108.7	2031.1	1982.2	1927.7	1867.4
5°	3338.2	3249.2	3194.6	3117.0	2890.1	2749.3	2516.6	2318.4	2226.5	2125.9	1988.0
7.5°	4338.1	4280.6	4205.9	4039.3	3884.1	3591.1	3191.7	2755.1	2568.3	2396.0	2123.0
10°	5165.4	5004.5	4995.9	4872.4	4702.9	4352.4	3872.6	3329.6	2996.4	2743.6	2315.6
12.5°	5742.8	5596.3	5662.4	5648.0	5490.0	5168.3	4613.8	3895.6	3548.0	3154.4	2513.7
15°	6268.6	6208.3	6188.1	6170.9	6107.7	5869.3	5372.2	4585.1	4082.3	3608.3	2737.8
17.5°	6782.8	6627.7	6702.4	6716.7	6711.0	6495.5	6030.1	5240.1	4648.3	4088.1	2973.4
20°	7239.6	7253.9	7153.4	7133.3	7116.1	7107.4	6653.5	5889.3	5343.5	4590.8	3280.8
22.5°	7825.7	7725.2	7814.2	7756.7	7644.7	7575.8	7228.1	6464.0	5946.8	5197.0	3594.0
25°	8518.0	8598.5	8388.7	8365.8	8242.2	8003.8	7690.6	7107.4	6527.2	5760.1	3932.9
27.5°	9371.3	9230.5	9175.9	9049.5	8825.4	8724.9	8357.2	7771.1	7228.1	6351.9	4260.5
30°	10103.8	10066.5	9793.6	9644.2	9448.9	9446.0	8931.8	8670.3	8141.7	7279.9	4711.5
32.5°	10701.4	10537.7	10437.1	10333.7	10175.7	10218.8	9785.0	9647.1	9115.6	8141.7	5243.0
35°	11100.7	10983.0	10922.6	10764.6	10718.6	10911.1	10730.2	10672.7	10236.0	9354.0	5866.4
37.5°	11227.1	11264.5	11253.0	11054.8	11152.4	11672.4	11905.1	11755.7	11525.9	10632.4	6541.5
40°	11339.2	11365.0	11307.6	11540.3	11818.9	12410.8	13252.5	13005.5	12919.3	11928.1	7480.9
42.5°	11402.4	11382.3	11382.3	11784.5	12206.8	13396.2	14553.9	14390.1	14324.1	13307.1	8566.9
45°	11129.5	10934.1	11143.8	11689.6	12540.1	13881.7	15593.9	15820.8	15726.1	14947.5	9836.7
47.5°	10109.6	10230.3	10348.0	11077.7	12134.9	13732.3	16231.7	17004.5	17179.7	16326.5	10669.8
50°	8566.9	8541.0	8785.2	9704.5	10988.7	13088.8	16108.1	17346.3	17665.3	16740.1	10845.0
52.5°	6231.3	6420.8	6685.2	7598.7	9121.3	11422.5	14513.7	16464.4	16889.5	16231.7	10730.2
55°	3628.4	3418.7	4013.4	4786.2	6222.7	8615.7	12270.0	14594.1	15381.3	15306.6	10149.8
57.5°	1453.6	1407.7	1611.6	2171.9	3246.3	5340.7	8923.1	11991.3	13252.5	14019.5	8920.2
60°	637.8	623.4	732.6	884.9	1327.3	2462.1	4881.0	7457.9	8773.7	9796.4	6139.3
62.5°	459.6	453.9	508.5	563.1	700.9	1071.6	2051.2	3005.0	3746.2	4524.7	2749.3
65°	370.6	385.0	422.3	451.0	517.1	594.7	724.0	836.0	1025.6	1062.9	606.2
67.5°	301.6	313.1	347.7	379.2	390.7	321.7	333.2	293.0	293.0	261.4	209.7
70°	221.2	224.1	264.3	301.6	241.3	129.3	227.0	227.0	204.0	195.4	178.1
72.5°	163.7	166.6	198.3	186.7	94.8	80.4	166.6	183.8	166.6	158.0	143.7
75°	120.7	123.6	103.4	43.1	40.2	51.7	97.6	126.4	120.7	117.8	109.2
77.5°	23.0	17.2	14.3	20.1	28.7	43.1	63.2	77.6	80.4	86.2	80.4
80°	2.9	2.9	8.6	17.2	31.6	46.0	66.1	74.7	77.6	80.4	74.7
82.5°	0.0	2.9	8.6	17.2	31.6	43.1	57.5	66.1	71.8	74.7	71.8
85°	0.0	2.9	5.7	14.3	25.8	31.6	28.7	20.1	17.2	20.1	14.3
87.5°	0.0	0.0	2.9	2.9	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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: P648501

CATALOG NUMBER: GALN-SA6B-835-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9	1809.9
2.5°	1832.9	1821.4	1781.2	1738.1	1700.8	1718.0	1700.8	1686.3	1692.1	1686.3	1680.6
5°	1933.5	1881.7	1795.6	1758.2	1726.6	1723.7	1715.1	1712.3	1715.1	1715.1	1689.2
7.5°	2028.2	1944.9	1853.0	1812.8	1775.5	1778.3	1758.2	1758.2	1755.3	1740.9	1735.2
10°	2171.9	2059.8	1942.1	1870.2	1824.2	1815.6	1795.6	1775.5	1775.5	1775.5	1746.7
12.5°	2329.9	2189.1	2028.2	1944.9	1890.3	1847.3	1815.6	1809.9	1778.3	1772.6	1758.2
15°	2467.8	2289.6	2085.7	1970.8	1901.8	1844.4	1795.6	1763.9	1749.5	1740.9	1729.5
17.5°	2602.8	2375.9	2117.3	1970.8	1896.1	1830.0	1778.3	1749.5	1715.1	1720.9	1697.9
20°	2783.8	2467.8	2125.9	1933.5	1841.5	1778.3	1709.4	1695.0	1674.9	1657.6	1663.4
22.5°	2959.0	2533.9	2100.1	1887.5	1755.3	1680.6	1646.2	1628.9	1620.3	1605.9	1585.8
25°	3117.0	2605.7	2059.8	1804.2	1663.4	1608.8	1577.2	1574.3	1554.3	1554.3	1516.9
27.5°	3278.0	2631.5	1990.9	1706.5	1582.9	1551.4	1537.0	1531.2	1522.6	1502.5	1476.7
30°	3461.8	2640.2	1890.3	1605.9	1511.1	1476.7	1496.8	1511.1	1473.8	1436.4	1447.9
32.5°	3614.1	2620.1	1769.7	1511.1	1459.4	1442.2	1482.4	1496.8	1453.6	1413.5	1393.3
35°	3797.9	2571.2	1651.9	1436.4	1407.7	1442.2	1476.7	1476.7	1390.5	1341.6	1330.2
37.5°	4076.6	2516.6	1542.7	1373.2	1353.1	1424.9	1470.9	1439.3	1304.2	1244.0	1229.6
40°	4375.4	2482.2	1436.4	1310.0	1324.4	1396.2	1422.1	1324.4	1186.5	1149.1	1137.6
42.5°	4809.2	2413.2	1341.6	1255.5	1298.5	1356.0	1356.0	1180.8	1129.0	1109.0	1106.1
45°	5349.3	2364.3	1258.3	1209.5	1261.2	1275.6	1229.6	1106.1	1068.7	1062.9	1065.8
47.5°	5613.6	2269.5	1172.2	1154.9	1192.3	1195.1	1074.4	1045.7	1014.1	1005.5	999.7
50°	5573.3	2100.1	1060.1	1083.0	1134.8	1106.1	979.6	985.4	956.7	953.8	939.4
52.5°	5291.8	1832.9	948.1	1002.6	1060.1	976.8	902.1	896.3	896.3	859.0	844.6
55°	4691.4	1476.7	813.0	882.0	951.0	821.6	801.6	795.8	781.4	747.0	738.3
57.5°	3714.6	1083.0	611.9	686.6	807.3	698.1	695.2	669.4	632.0	606.2	606.2
60°	2209.2	623.4	385.0	419.5	534.3	566.0	629.1	617.6	554.4	514.3	502.8
62.5°	1008.3	321.7	244.2	249.9	287.3	367.7	494.2	571.7	482.6	413.7	407.9
65°	339.0	238.4	201.1	192.5	198.3	221.2	295.9	405.0	385.0	318.9	307.4
67.5°	206.9	212.6	189.6	175.2	175.2	172.3	169.5	183.8	227.0	221.2	224.1
70°	178.1	195.4	175.2	158.0	152.3	143.7	120.7	100.5	86.2	100.5	106.3
72.5°	143.7	155.1	149.4	135.0	120.7	109.2	86.2	66.1	48.9	43.1	43.1
75°	106.3	114.9	120.7	103.4	91.9	77.6	63.2	43.1	25.8	17.2	17.2
77.5°	77.6	86.2	89.0	80.4	69.0	54.6	40.2	28.7	14.3	5.7	5.7
80°	66.1	77.6	86.2	80.4	71.8	51.7	37.3	20.1	11.5	2.9	2.9
82.5°	63.2	77.6	86.2	77.6	69.0	48.9	37.3	23.0	8.6	2.9	2.9
85°	14.3	20.1	25.8	31.6	37.3	37.3	28.7	17.2	8.6	2.9	2.9
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	2.9	2.9	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)