

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: P648666

Luminaire Tested: **GALN-SA9B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648666
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-SA9B-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 26713.6 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

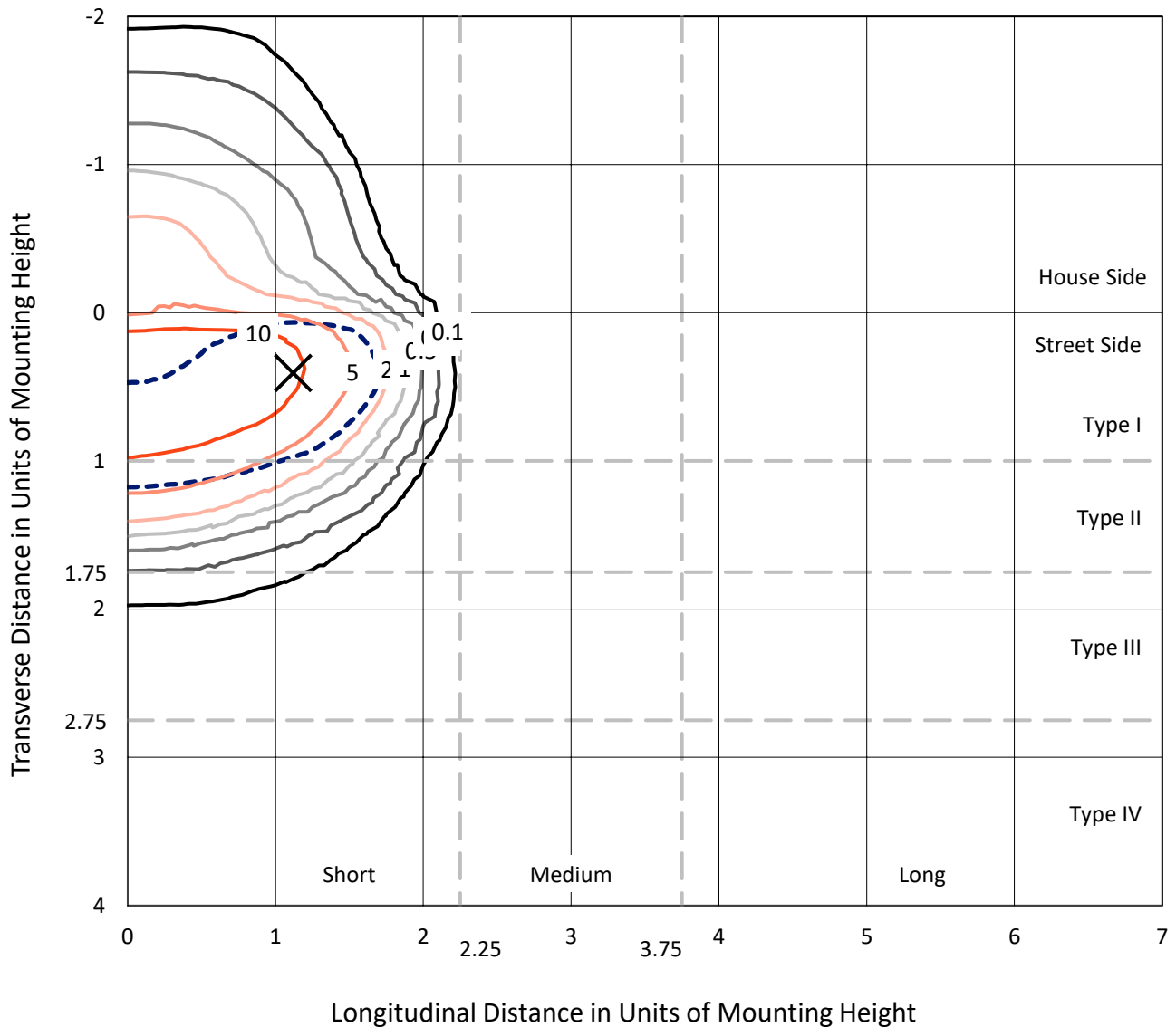
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

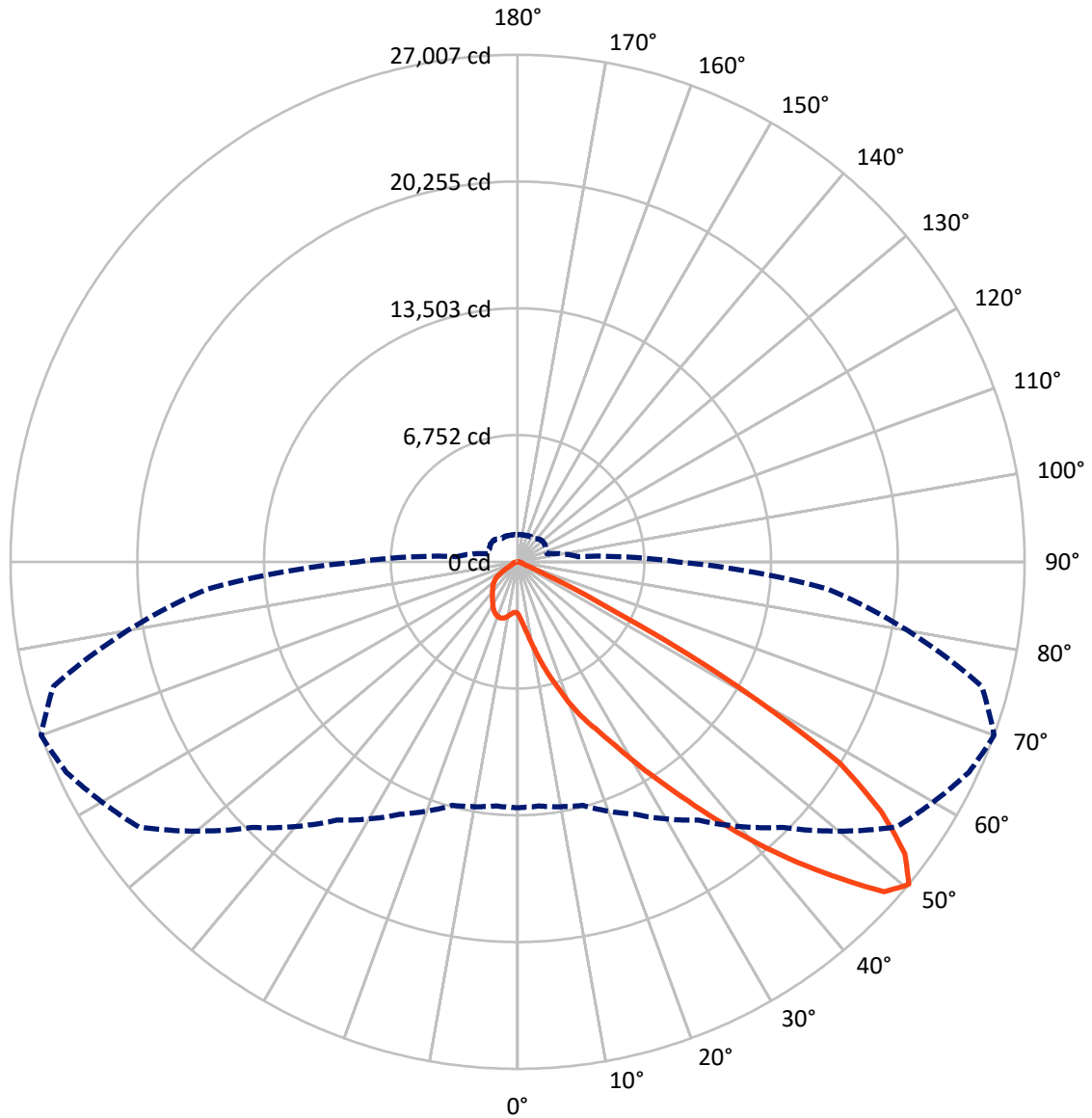
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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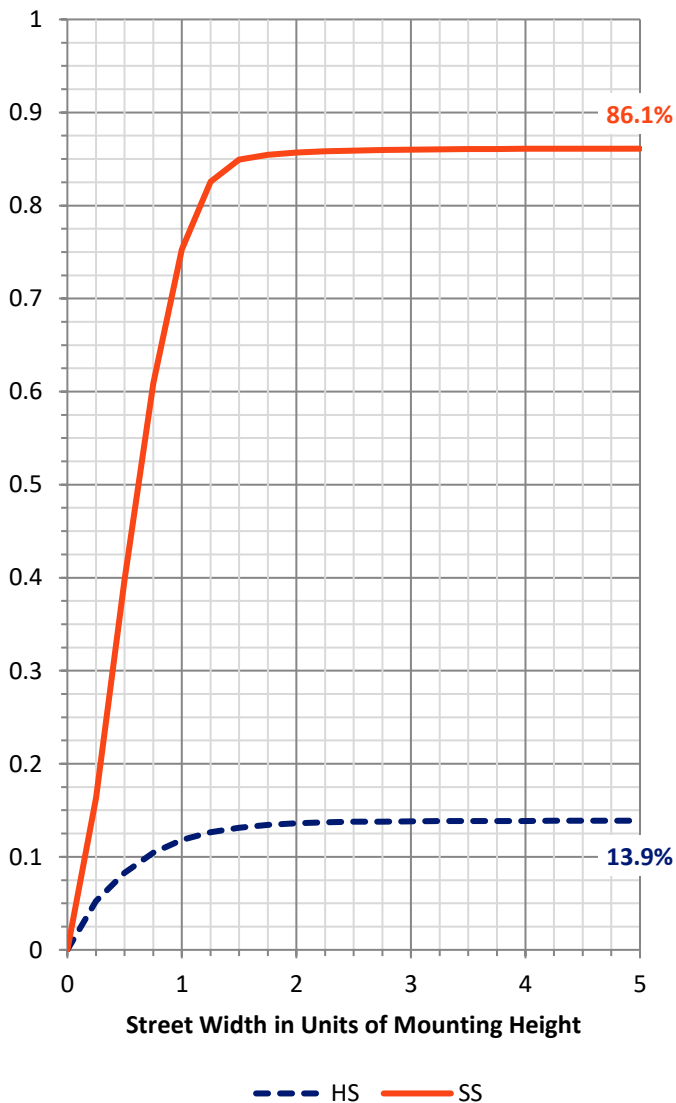
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3730.7	0.0	3730.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22982.9	0.0	22982.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	26713.6	0.0	26713.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	1.3
10°-20°	1556.4	5.8
20°-30°	3265.1	12.2
30°-40°	5627.9	21.1
40°-50°	8225.2	30.8
50°-60°	6406.1	24.0
60°-70°	1085.4	4.1
70°-80°	149.1	0.6
80°-90°	38.6	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°	26713.6	100.0
0°-180°	26713.6	100.0

Coefficient of Utilization



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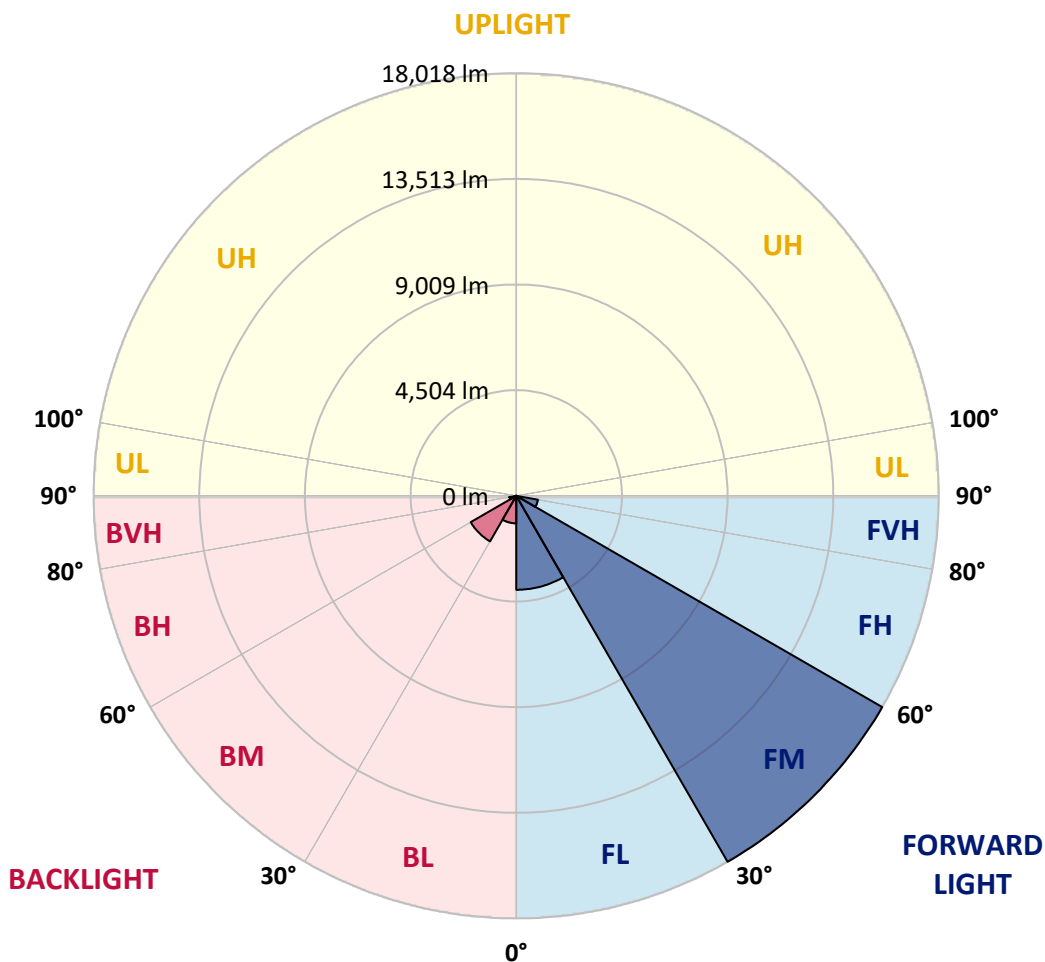
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4007.4	15.0			
FM (30°-60°)	18017.9	67.4			
FH (60°-80°)	939.8	3.5			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1174.0	4.4	B3/2500		
BM (30°-60°)	2241.3	8.4	B2/2500		
BH (60°-80°)	294.7	1.1	B1/500		G1/500
BVH (80°-90°)	20.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	3623.5	3597.1	3540.0	3434.6	3390.7	3285.2	3223.8	3105.2	3030.5	2947.1	2854.8
5°	5103.6	4967.4	4884.0	4765.4	4418.4	4203.2	3847.4	3544.4	3403.9	3250.2	3039.3
7.5°	6632.0	6544.2	6430.0	6175.3	5938.1	5490.1	4879.6	4212.0	3926.5	3663.0	3245.8
10°	7896.9	7651.0	7637.8	7448.9	7189.8	6654.0	5920.5	5090.4	4580.9	4194.5	3540.0
12.5°	8779.8	8555.8	8656.8	8634.8	8393.2	7901.3	7053.7	5955.7	5424.2	4822.5	3843.0
15°	9583.5	9491.3	9460.5	9434.1	9337.5	8973.0	8213.2	7009.7	6241.1	5516.5	4185.6
17.5°	10369.7	10132.5	10246.7	10268.7	10259.9	9930.5	9219.0	8011.1	7106.4	6249.9	4545.8
20°	11068.0	11089.9	10936.2	10905.5	10879.2	10866.0	10172.0	9003.7	8169.3	7018.5	5015.7
22.5°	11964.0	11810.3	11946.5	11858.6	11687.3	11581.9	11050.5	9882.2	9091.6	7945.3	5494.5
25°	13022.5	13145.5	12824.8	12789.7	12600.8	12236.3	11757.6	10866.0	9978.8	8806.1	6012.7
27.5°	14326.9	14111.7	14028.3	13835.0	13492.4	13338.7	12776.5	11880.5	11050.5	9710.8	6513.5
30°	15446.9	15389.8	14972.6	14744.2	14445.5	14441.1	13655.0	13255.3	12447.1	11129.5	7203.0
32.5°	16360.5	16110.1	15956.4	15798.3	15556.7	15622.6	14959.4	14748.6	13936.1	12447.1	8015.5
35°	16971.0	16790.9	16698.6	16457.1	16386.8	16681.1	16404.4	16316.5	15649.0	14300.6	8968.6
37.5°	17164.2	17221.3	17203.8	16900.7	17050.0	17845.0	18200.8	17972.4	17621.0	16255.1	10000.7
40°	17335.5	17375.0	17287.2	17642.9	18069.0	18973.7	20260.6	19882.9	19751.2	18235.9	11437.0
42.5°	17432.2	17401.4	17401.4	18016.3	18661.9	20480.2	22250.2	21999.9	21898.9	20344.1	13097.2
45°	17014.9	16716.2	17036.8	17871.3	19171.4	21222.5	23840.2	24187.1	24042.2	22851.9	15038.5
47.5°	15455.7	15640.2	15820.2	16935.8	18552.1	20994.1	24815.2	25996.7	26264.6	24960.2	16312.2
50°	13097.2	13057.6	13431.0	14836.4	16799.7	20010.3	24626.4	26519.3	27006.8	25592.6	16580.0
52.5°	9526.4	9816.3	10220.3	11617.1	13944.8	17462.9	22188.7	25170.9	25821.0	24815.2	16404.4
55°	5547.2	5226.5	6135.7	7317.2	9513.2	13171.8	18758.6	22311.7	23515.1	23401.0	15517.2
57.5°	2222.4	2152.1	2463.9	3320.4	4963.0	8164.9	13641.7	18332.5	20260.6	21433.3	13637.4
60°	975.1	953.1	1120.0	1352.8	2029.1	3764.0	7462.1	11401.8	13413.4	14977.0	9385.8
62.5°	702.7	694.0	777.4	860.8	1071.7	1638.3	3135.9	4594.1	5727.3	6917.5	4203.2
65°	566.6	588.5	645.7	689.6	790.6	909.1	1106.8	1278.1	1568.0	1625.0	926.8
67.5°	461.2	478.7	531.4	579.7	597.4	491.9	509.5	448.0	448.0	399.6	320.6
70°	338.2	342.6	404.1	461.2	368.9	197.6	346.9	346.9	311.9	298.6	272.3
72.5°	250.3	254.7	303.0	285.5	144.9	123.0	254.7	281.1	254.7	241.6	219.6
75°	184.5	188.9	158.1	65.9	61.5	79.1	149.3	193.2	184.5	180.1	166.9
77.5°	35.2	26.4	21.9	30.8	43.9	65.9	96.6	118.6	123.0	131.8	123.0
80°	4.4	4.4	13.2	26.4	48.3	70.2	101.0	114.2	118.6	123.0	114.2
82.5°	0.0	4.4	13.2	26.4	48.3	65.9	87.9	101.0	109.8	114.2	109.8
85°	0.0	4.4	8.8	21.9	39.5	48.3	43.9	30.8	26.4	30.8	21.9
87.5°	0.0	0.0	4.4	4.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8
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°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2802.1	2784.6	2723.1	2657.2	2600.1	2626.5	2600.1	2578.2	2587.0	2578.2	2569.3
5°	2955.8	2876.8	2745.0	2688.0	2639.6	2635.3	2622.0	2617.6	2622.0	2622.0	2582.6
7.5°	3100.8	2973.4	2832.9	2771.4	2714.3	2718.7	2688.0	2688.0	2683.6	2661.6	2652.8
10°	3320.4	3149.1	2969.1	2859.2	2789.0	2775.8	2745.0	2714.3	2714.3	2714.3	2670.3
12.5°	3561.9	3346.8	3100.8	2973.4	2890.0	2824.1	2775.8	2767.0	2718.7	2709.9	2688.0
15°	3772.8	3500.5	3188.6	3013.0	2907.5	2819.7	2745.0	2696.7	2674.8	2661.6	2644.0
17.5°	3979.2	3632.3	3236.9	3013.0	2898.7	2797.7	2718.7	2674.8	2622.0	2630.9	2595.7
20°	4255.9	3772.8	3250.2	2955.8	2815.4	2718.7	2613.3	2591.3	2560.6	2534.3	2543.0
22.5°	4523.9	3873.8	3210.6	2885.6	2683.6	2569.3	2516.6	2490.3	2477.1	2455.2	2424.4
25°	4765.4	3983.6	3149.1	2758.2	2543.0	2459.6	2411.2	2406.9	2376.1	2376.1	2319.0
27.5°	5011.4	4023.1	3043.7	2608.9	2420.0	2371.7	2349.8	2340.9	2327.8	2297.1	2257.5
30°	5292.5	4036.3	2890.0	2455.2	2310.2	2257.5	2288.2	2310.2	2253.2	2196.0	2213.6
32.5°	5525.2	4005.6	2705.5	2310.2	2231.2	2204.8	2266.3	2288.2	2222.4	2160.9	2130.2
35°	5806.3	3930.9	2525.4	2196.0	2152.1	2204.8	2257.5	2257.5	2125.8	2051.1	2033.5
37.5°	6232.4	3847.4	2358.6	2099.4	2068.7	2178.5	2248.8	2200.5	1994.0	1901.8	1879.8
40°	6689.1	3794.7	2196.0	2002.8	2024.8	2134.5	2174.1	2024.8	1813.9	1756.8	1739.3
42.5°	7352.3	3689.3	2051.1	1919.4	1985.2	2073.1	2073.1	1805.1	1726.0	1695.4	1691.0
45°	8178.0	3614.6	1923.8	1849.1	1928.1	1950.1	1879.8	1691.0	1633.9	1625.0	1629.4
47.5°	8582.1	3469.7	1792.0	1765.6	1822.7	1827.1	1642.7	1598.7	1550.4	1537.2	1528.4
50°	8520.6	3210.6	1620.7	1655.8	1734.9	1691.0	1497.7	1506.5	1462.6	1458.2	1436.2
52.5°	8090.2	2802.1	1449.4	1532.8	1620.7	1493.3	1379.1	1370.3	1370.3	1313.2	1291.2
55°	7172.3	2257.5	1242.9	1348.4	1453.8	1256.2	1225.4	1216.6	1194.6	1141.9	1128.8
57.5°	5678.9	1655.8	935.5	1049.7	1234.2	1067.3	1062.8	1023.4	966.2	926.8	926.8
60°	3377.5	953.1	588.5	641.3	816.9	865.2	961.8	944.3	847.7	786.2	768.6
62.5°	1541.6	491.9	373.3	382.1	439.2	562.2	755.4	874.0	737.9	632.4	623.7
65°	518.3	364.6	307.4	294.3	303.0	338.2	452.4	619.3	588.5	487.5	470.0
67.5°	316.3	325.0	289.9	267.9	267.9	263.6	259.1	281.1	346.9	338.2	342.6
70°	272.3	298.6	267.9	241.6	232.8	219.6	184.5	153.7	131.8	153.7	162.5
72.5°	219.6	237.2	228.4	206.4	184.5	166.9	131.8	101.0	74.7	65.9	65.9
75°	162.5	175.7	184.5	158.1	140.5	118.6	96.6	65.9	39.5	26.4	26.4
77.5°	118.6	131.8	136.2	123.0	105.4	83.5	61.5	43.9	21.9	8.8	8.8
80°	101.0	118.6	131.8	123.0	109.8	79.1	57.1	30.8	17.5	4.4	4.4
82.5°	96.6	118.6	131.8	118.6	105.4	74.7	57.1	35.2	13.2	4.4	4.4
85°	21.9	30.8	39.5	48.3	57.1	57.1	43.9	26.4	13.2	4.4	4.4
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	4.4	4.4	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)