

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: P531842

Luminaire Tested: **GALN-SA7A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22840 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 215
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

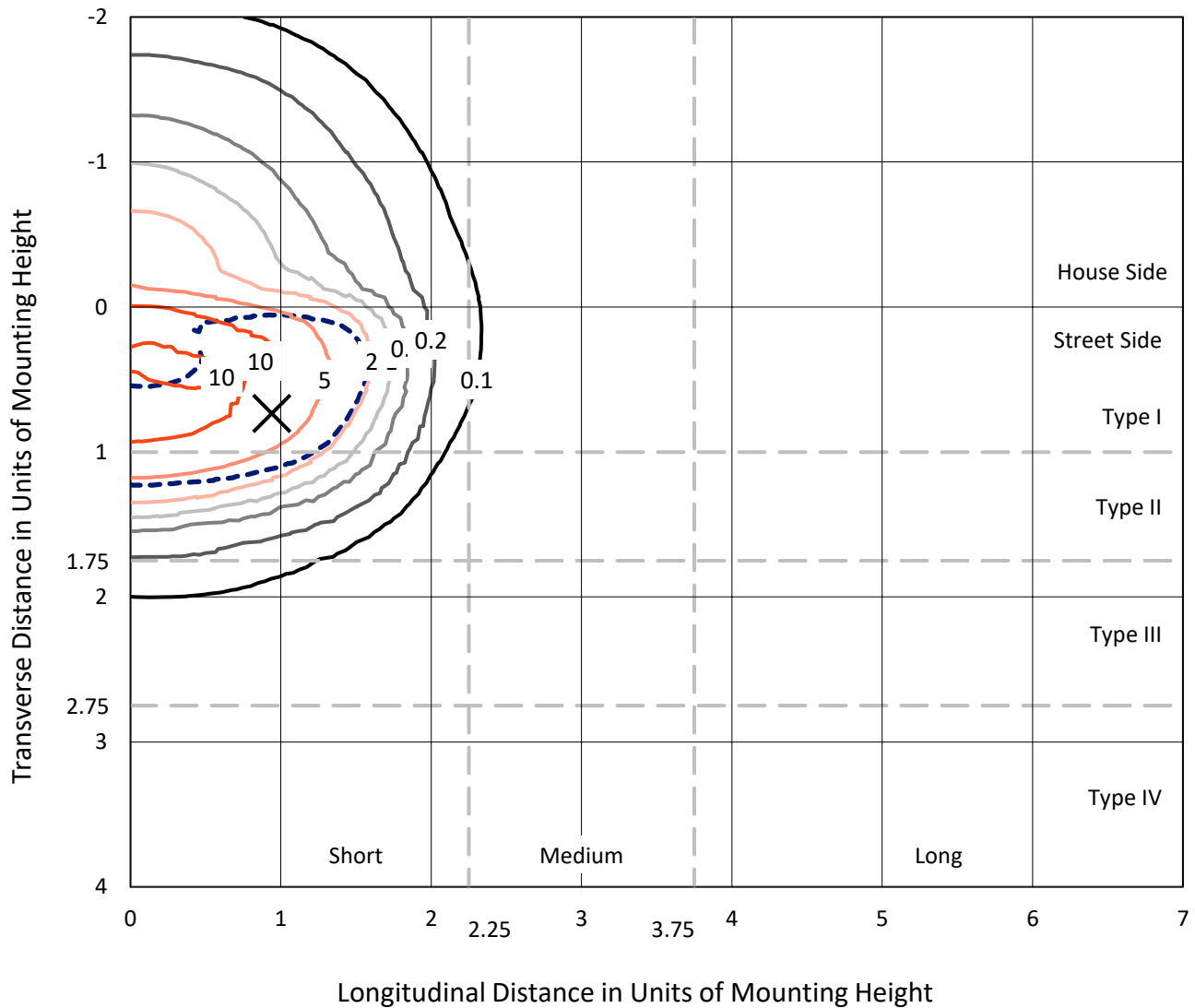


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Iso-Footcandle Lines of Horizontal Illumination

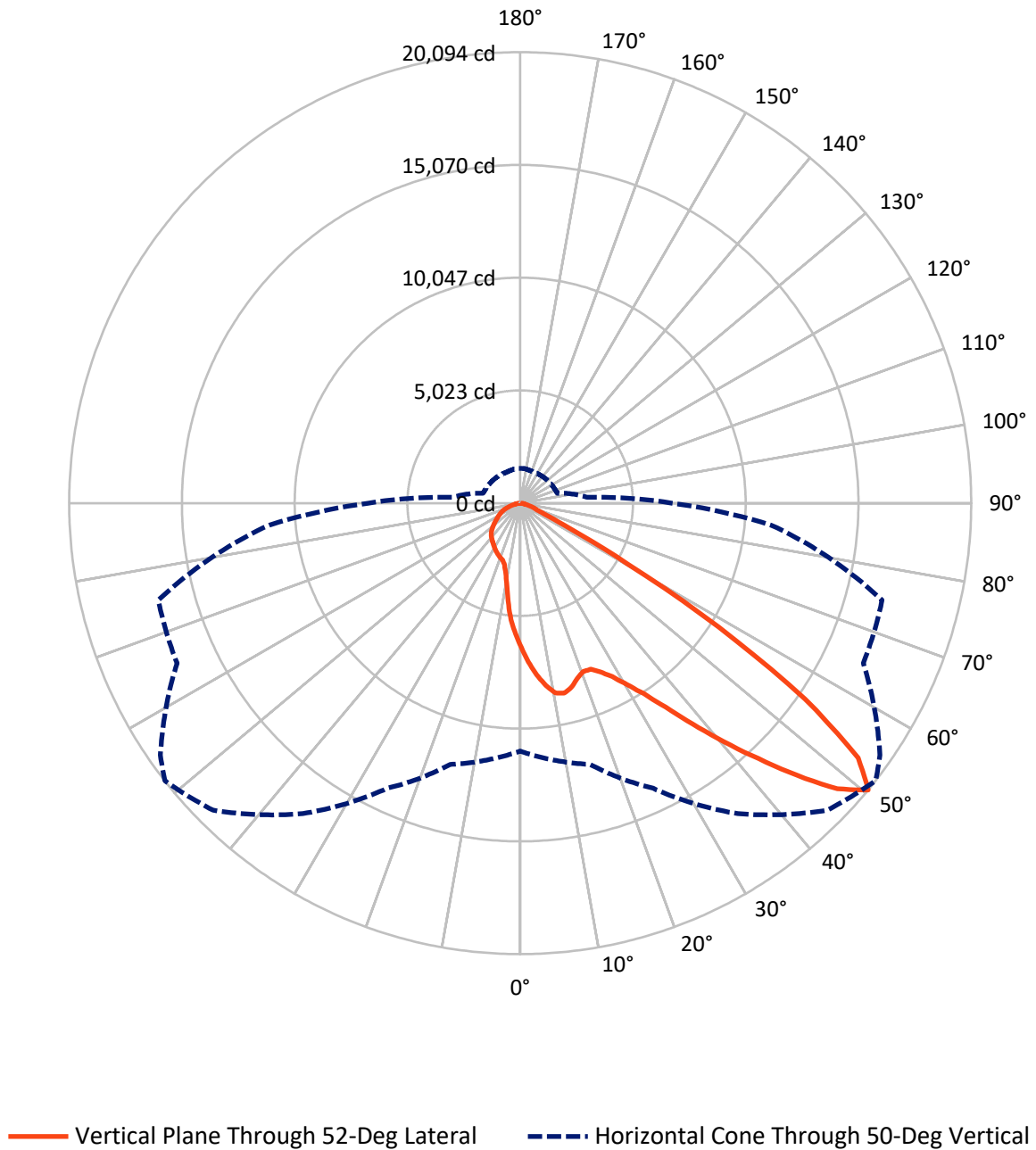
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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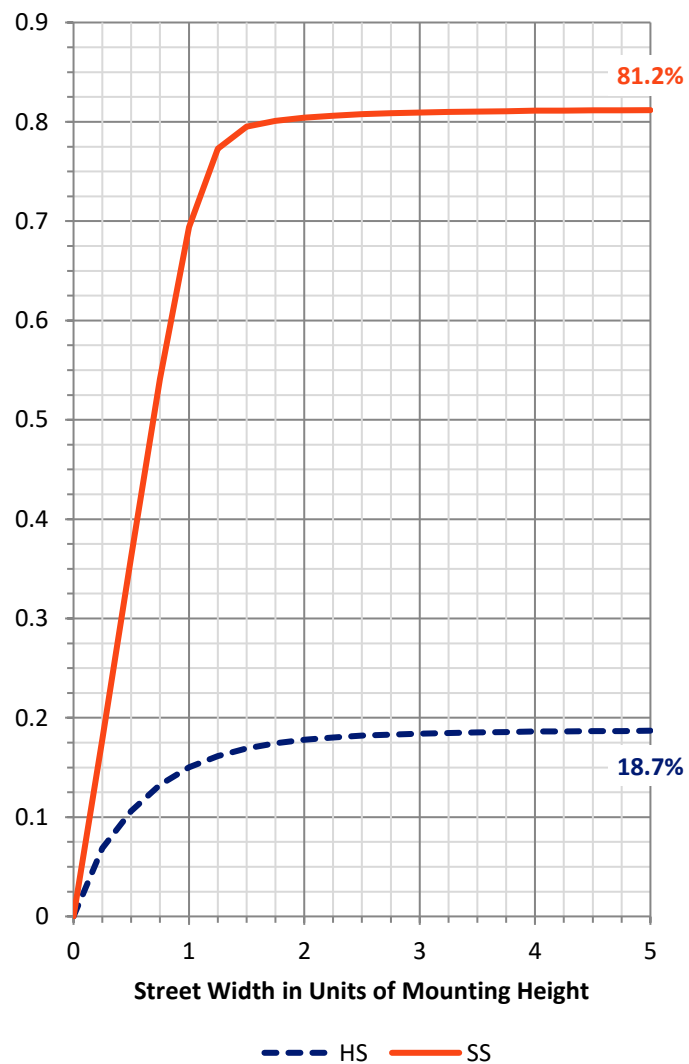
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4293.4	0.0	4293.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18546.6	0.0	18546.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	22840.0	0.0	22840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.4	2.6
10°-20°	1590.5	7.0
20°-30°	2679.1	11.7
30°-40°	4495.8	19.7
40°-50°	6877.4	30.1
50°-60°	5014.2	22.0
60°-70°	1115.9	4.9
70°-80°	402.5	1.8
80°-90°	71.2	0.3
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°	22840.0	100.0
0°-180°	22840.0	100.0

Coefficient of Utilization



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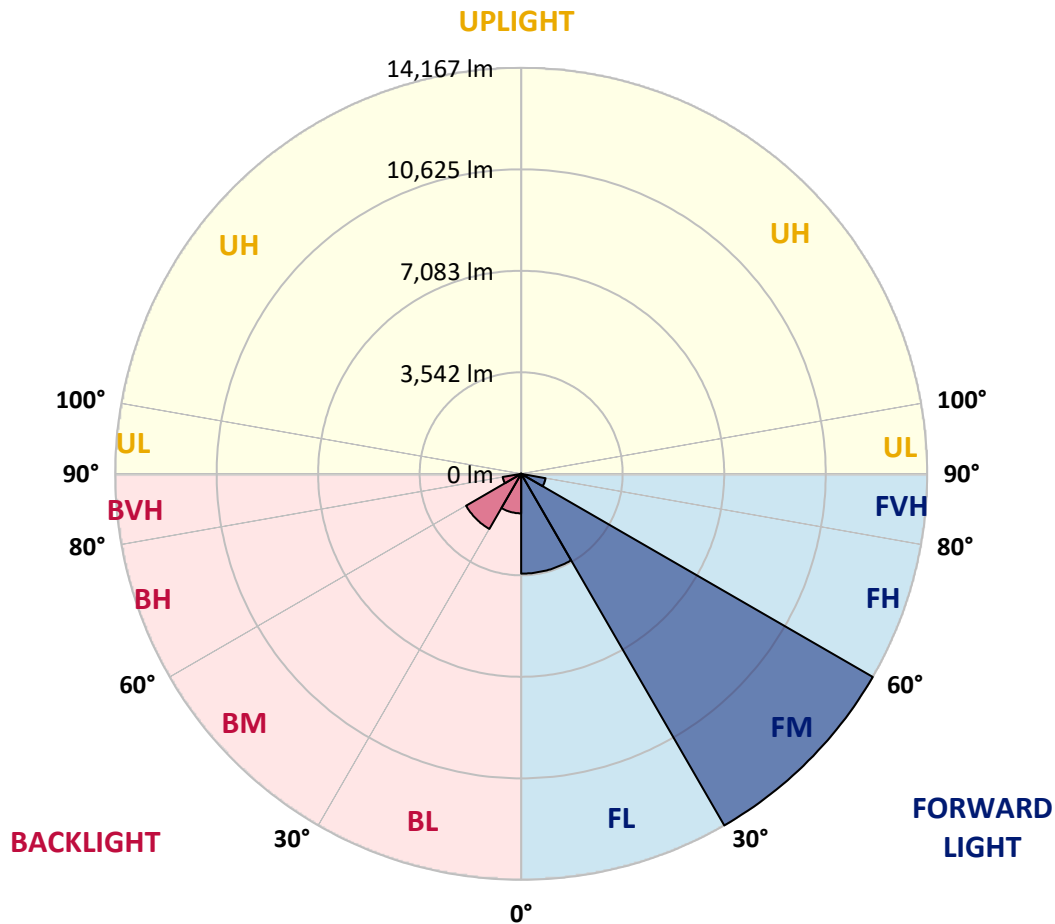
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3483.9	15.3			
FM	(30°-60°)	14166.5	62.0			
FH	(60°-80°)	864.3	3.8			G1/1800
FVH	(80°-90°)	31.9	0.1			G1/100
BL	(0°-30°)	1379.1	6.0	B3/2500		
BM	(30°-60°)	2220.8	9.7	B2/2500		
BH	(60°-80°)	654.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	39.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2
2.5°	7580.5	7434.6	7451.2	7346.6	7233.7	7200.7	7085.1	6975.0	6892.4	6716.2	6553.8
5°	8285.2	8241.1	8175.1	8092.5	8007.2	7798.0	7679.6	7542.0	7239.2	6966.7	6697.0
7.5°	8387.0	8378.8	8414.5	8414.5	8444.8	8365.0	8197.1	8100.8	7778.7	7335.5	6834.6
10°	7671.4	7696.1	7869.5	8095.3	8409.0	8626.5	8599.0	8574.2	8221.9	7616.3	6997.0
12.5°	7101.6	7046.5	7148.4	7341.1	7811.7	8337.5	8692.6	8695.3	8604.5	8065.0	7115.3
15°	6779.5	6818.1	6845.6	6936.4	7291.5	7899.8	8524.7	8709.1	9108.2	8381.5	7302.5
17.5°	6986.0	6856.6	6851.1	6873.1	7054.8	7511.7	8213.6	8530.2	9383.4	8788.9	7533.7
20°	7255.7	7253.0	7175.9	7148.4	7145.6	7553.0	8009.9	8439.3	9529.3	9317.4	7767.7
22.5°	7729.2	7729.2	7602.5	7542.0	7412.6	7745.7	8037.4	8329.2	9771.6	9680.7	7880.6
25°	8521.9	8392.5	8175.1	8026.4	7952.1	8070.5	8329.2	8590.7	9983.5	10066.1	8114.5
27.5°	9254.1	9050.4	8943.0	8687.1	8588.0	8519.1	8755.9	9020.1	10231.2	10666.1	8241.1
30°	10085.3	10049.6	9856.9	9526.6	9281.6	9155.0	9372.4	9633.9	10685.4	11280.0	8532.9
32.5°	11571.7	11246.9	10985.4	10580.8	10181.7	9911.9	10126.6	10300.0	11439.6	11921.3	8852.2
35°	13176.5	13071.9	12620.4	11891.0	11280.0	11037.7	11164.3	11293.7	12317.7	12901.2	9389.0
37.5°	14753.7	14610.5	14238.9	13625.1	12881.9	12389.2	12480.1	12631.5	13303.1	14222.4	10044.1
40°	15887.7	15711.6	15524.4	15433.6	14695.9	14021.5	13969.2	14007.7	14635.3	15461.1	10770.7
42.5°	15970.3	16187.8	16245.6	16611.6	16438.2	15885.0	15562.9	15571.2	15907.0	16686.0	11505.7
45°	15796.9	15596.0	16022.6	17021.8	17594.3	17853.0	17310.8	17242.0	16694.2	17396.1	11871.8
47.5°	13977.5	14032.5	14753.7	16333.6	17987.9	19144.0	19017.4	18788.9	17115.4	17371.4	11813.9
50°	11048.7	11381.8	12050.7	14018.7	16886.9	19347.7	20093.6	19565.1	16864.9	16688.7	11224.9
52.5°	7357.6	7495.2	7935.6	10476.2	13578.3	17294.3	18855.0	18976.1	16633.7	15794.1	10479.0
55°	3275.5	3264.5	3883.8	5472.1	8519.1	13159.9	15406.0	16143.7	15744.6	14883.0	9752.3
57.5°	1387.3	1434.1	1687.3	2364.4	4189.4	7941.1	10437.7	11084.5	12108.5	12221.3	7481.4
60°	938.6	944.1	1012.9	1183.6	1753.4	3729.7	5474.8	6251.0	6983.2	6933.7	3969.2
62.5°	737.7	757.0	809.3	878.1	1040.5	1692.8	2449.8	2881.9	2928.7	2463.5	1505.6
65°	630.3	633.1	685.4	743.2	814.8	985.4	1180.8	1202.9	1216.6	1172.6	1106.5
67.5°	520.2	525.7	567.0	633.1	699.1	754.2	809.3	836.8	900.1	1023.9	1007.4
70°	412.9	421.1	456.9	512.0	572.5	605.6	674.4	699.1	757.0	853.3	891.8
72.5°	313.8	316.5	346.8	385.4	440.4	473.4	531.2	558.8	597.3	679.9	715.7
75°	225.7	234.0	256.0	275.3	283.5	305.5	360.6	390.9	445.9	481.7	484.4
77.5°	118.4	123.9	129.4	129.4	156.9	198.2	234.0	250.5	289.0	316.5	302.8
80°	46.8	49.5	63.3	85.3	110.1	143.1	167.9	176.2	209.2	225.7	234.0
82.5°	27.5	30.3	41.3	60.6	79.8	101.8	121.1	129.4	151.4	170.7	176.2
85°	13.8	16.5	24.8	38.5	52.3	63.3	60.6	57.8	57.8	55.1	57.8
87.5°	5.5	5.5	8.3	8.3	8.3	11.0	13.8	13.8	13.8	16.5	16.5
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°	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2	6438.2
2.5°	6446.5	6336.4	6234.5	6047.4	5843.7	5785.9	5549.1	5463.8	5403.3	5331.7	5309.7
5°	6479.5	6333.6	6006.1	5629.0	5328.9	4943.6	4690.3	4417.8	4219.7	4170.1	4156.4
7.5°	6548.3	6297.8	5733.6	5163.8	4550.0	4027.0	3627.9	3413.2	3223.2	3212.2	3193.0
10°	6625.4	6190.5	5436.3	4541.7	3757.2	3272.8	3033.3	2939.7	2892.9	2881.9	2876.4
12.5°	6688.7	6168.5	5103.2	3936.1	3195.7	2903.9	2832.4	2824.1	2843.4	2848.9	2859.9
15°	6716.2	6080.4	4701.4	3393.9	2846.1	2738.8	2769.1	2802.1	2815.9	2851.6	2824.1
17.5°	6768.5	5967.5	4205.9	2964.5	2650.7	2670.0	2722.3	2760.8	2782.8	2807.6	2771.8
20°	6796.0	5865.7	3740.7	2708.5	2581.9	2617.7	2689.2	2719.5	2747.0	2758.1	2716.8
22.5°	6771.3	5656.5	3330.6	2502.1	2515.8	2562.6	2625.9	2659.0	2642.4	2598.4	2573.6
25°	6705.2	5362.0	2903.9	2369.9	2422.2	2504.8	2554.4	2529.6	2499.3	2474.5	2466.3
27.5°	6702.5	5001.4	2595.7	2248.8	2342.4	2455.3	2438.8	2416.7	2430.5	2411.2	2389.2
30°	6716.2	4651.8	2342.4	2180.0	2284.6	2339.7	2358.9	2336.9	2353.4	2317.6	2328.7
32.5°	6644.7	4310.5	2177.3	2100.2	2215.8	2213.1	2276.4	2292.9	2254.3	2180.0	2191.0
35°	6674.9	4035.2	2036.9	2064.4	2138.7	2138.7	2188.3	2169.0	2067.2	2023.1	2034.1
37.5°	6884.1	3765.5	1968.1	2014.9	2064.4	2086.4	2069.9	1987.3	1962.6	1962.6	1968.1
40°	7082.3	3534.3	1926.8	2003.9	1995.6	2009.4	1888.3	1896.5	1896.5	1899.3	1885.5
42.5°	7258.5	3377.4	1893.8	1937.8	1951.6	1880.0	1805.7	1797.4	1816.7	1813.9	1802.9
45°	7321.8	3248.0	1847.0	1863.5	1874.5	1756.1	1720.3	1703.8	1725.8	1734.1	1745.1
47.5°	7079.6	3140.7	1794.7	1761.6	1739.6	1662.5	1615.7	1585.5	1613.0	1659.8	1670.8
50°	6768.5	3000.3	1712.1	1648.8	1602.0	1569.0	1535.9	1505.6	1524.9	1557.9	1549.7
52.5°	6308.8	2780.1	1607.5	1541.4	1461.6	1469.9	1439.6	1423.1	1434.1	1434.1	1425.8
55°	5653.7	2284.6	1431.3	1384.5	1318.5	1340.5	1346.0	1324.0	1302.0	1321.2	1304.7
57.5°	3859.1	1613.0	1277.2	1277.2	1211.1	1241.4	1238.6	1186.3	1134.1	1139.6	1128.5
60°	2232.3	1285.4	1178.1	1167.1	1098.3	1123.0	1128.5	1092.8	1012.9	1018.4	1007.4
62.5°	1268.9	1098.3	1029.5	1012.9	999.2	1021.2	1021.2	974.4	905.6	911.1	900.1
65°	1079.0	1018.4	919.4	916.6	911.1	916.6	894.6	845.0	784.5	759.7	762.5
67.5°	979.9	941.4	845.0	820.3	803.7	801.0	759.7	712.9	685.4	663.4	660.6
70°	858.8	828.5	757.0	723.9	707.4	668.9	627.6	597.3	558.8	547.8	558.8
72.5°	679.9	677.1	649.6	613.8	578.0	547.8	512.0	470.7	434.9	426.6	407.4
75°	470.7	476.2	481.7	476.2	445.9	407.4	366.1	333.1	289.0	264.2	258.7
77.5°	308.3	316.5	324.8	313.8	294.5	258.7	231.2	189.9	156.9	137.6	134.9
80°	225.7	236.7	242.2	234.0	211.9	184.4	154.1	121.1	96.3	79.8	79.8
82.5°	173.4	184.4	189.9	176.2	154.1	132.1	110.1	85.3	66.1	52.3	49.5
85°	60.6	57.8	68.8	71.6	85.3	79.8	66.1	49.5	38.5	27.5	24.8
87.5°	16.5	16.5	19.3	19.3	16.5	13.8	13.8	13.8	11.0	8.3	8.3
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)