

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: P651967

Luminaire Tested: **GALN-SA6A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20041 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

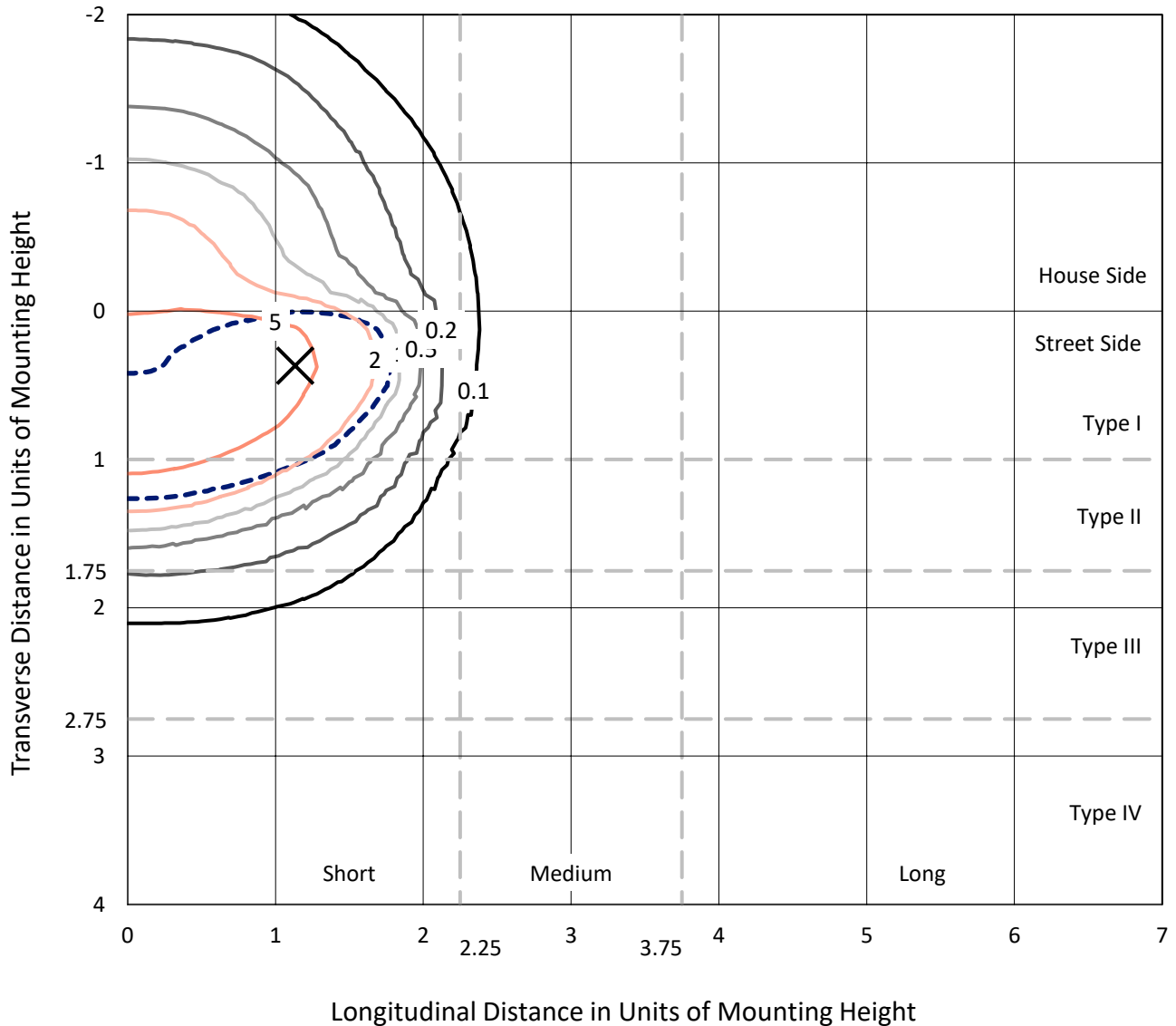
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

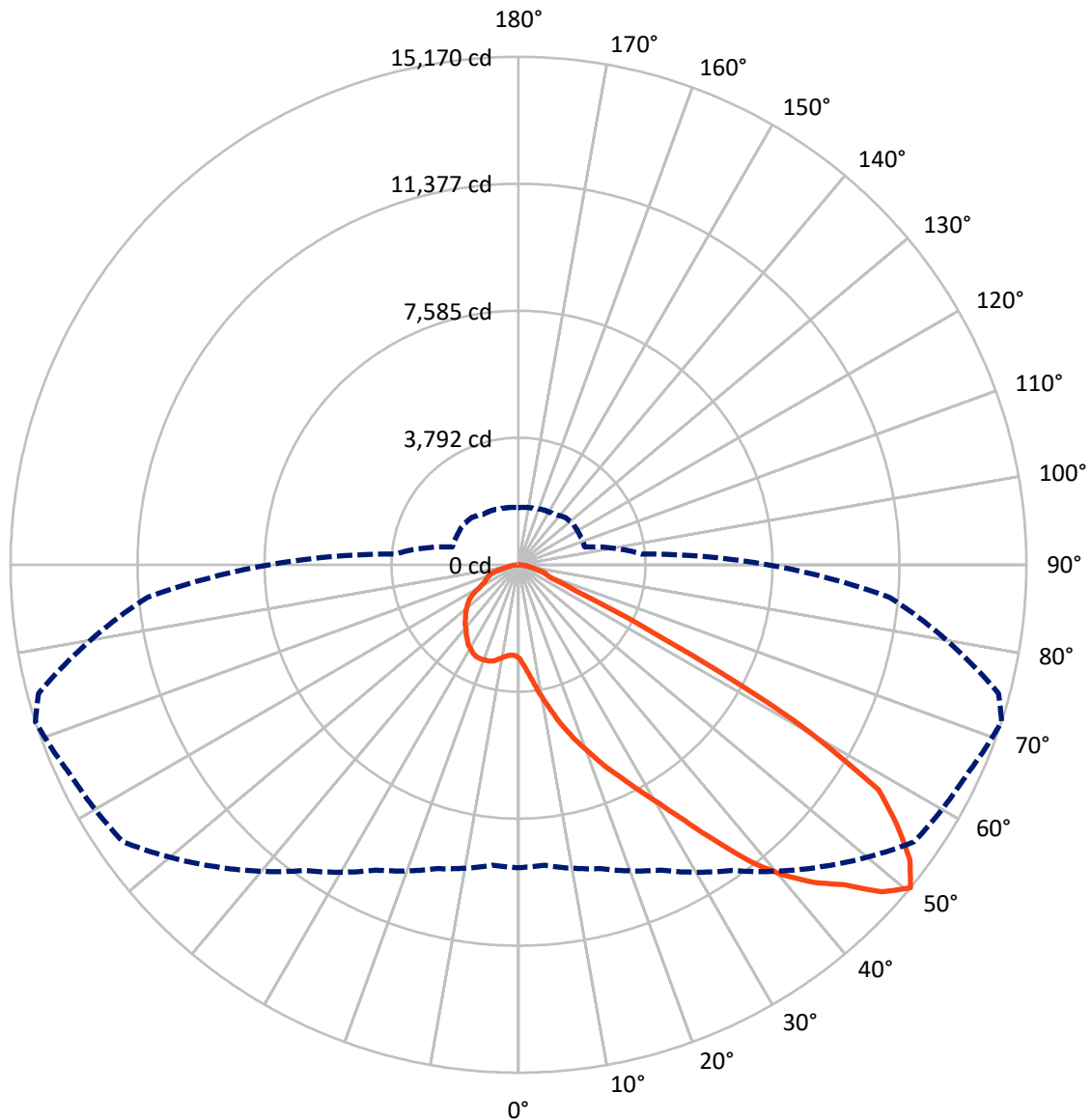
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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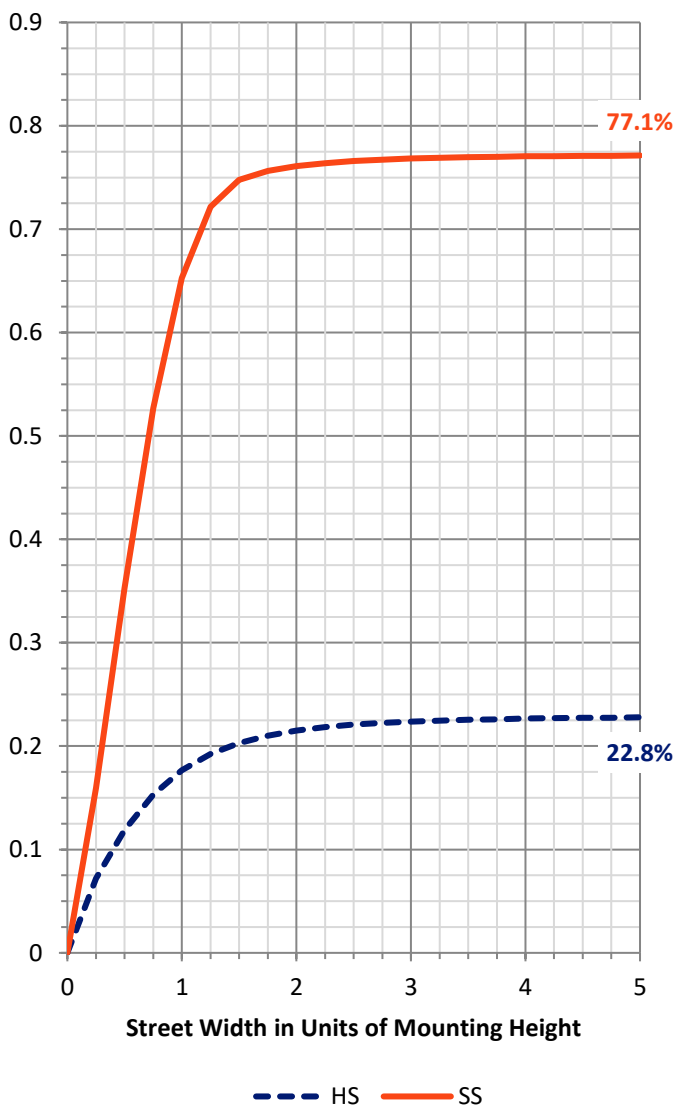
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4591.5	0.0	4591.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15449.5	0.0	15449.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	20041.0	0.0	20041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	1.6
10°-20°	1226.8	6.1
20°-30°	2378.6	11.9
30°-40°	3940.6	19.7
40°-50°	5513.7	27.5
50°-60°	4651.5	23.2
60°-70°	1417.8	7.1
70°-80°	497.4	2.5
80°-90°	86.5	0.4
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°	20041.0	100.0
0°-180°	20041.0	100.0

Coefficient of Utilization



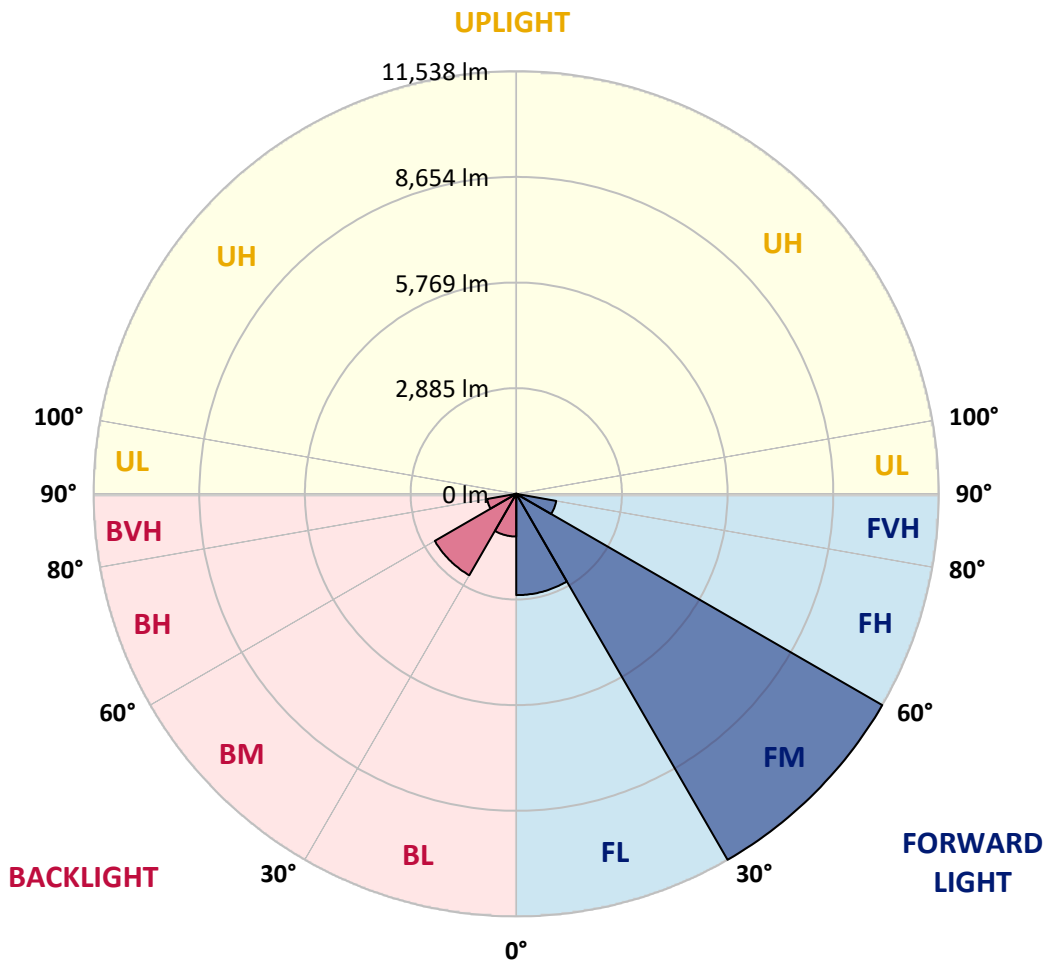
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2766.4	13.8			
FM (30°-60°)	11538.2	57.6			
FH (60°-80°)	1106.2	5.5			G1/1800
FVH (80°-90°)	38.7	0.2			G1/100
BL (0°-30°)	1167.2	5.8	B3/2500		
BM (30°-60°)	2567.6	12.8	B3/5000		
BH (60°-80°)	808.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	47.7	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°	55°	65°	72°	75°	85°
0°	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8
2.5°	3588.4	3566.1	3499.1	3476.8	3397.5	3253.7	3204.0	3057.7	2995.7	2938.7	2871.7
5°	4538.2	4434.1	4426.6	4300.1	4116.6	4010.0	3692.6	3479.3	3283.3	3184.2	3000.7
7.5°	5143.3	5145.7	5145.7	5041.6	4895.3	4625.0	4339.8	3955.4	3660.3	3514.0	3201.5
10°	5718.6	5669.0	5641.8	5631.8	5532.7	5269.8	4964.8	4488.6	4084.4	3913.3	3352.8
12.5°	6125.3	6083.2	6145.2	6113.0	6041.0	5869.9	5582.2	5039.2	4533.2	4302.6	3595.9
15°	6318.8	6348.5	6398.2	6487.4	6455.2	6390.7	6073.3	5604.6	5016.8	4756.4	3811.6
17.5°	6616.4	6534.5	6594.0	6705.6	6794.9	6765.2	6584.1	6013.7	5495.4	5175.5	4101.7
20°	6824.6	6777.5	6807.3	6936.2	7003.3	7171.9	7077.6	6549.4	5954.2	5617.0	4444.0
22.5°	7419.8	7350.4	7253.7	7273.6	7298.4	7417.4	7439.7	7137.1	6487.4	6130.3	4768.8
25°	8153.9	8089.4	7975.4	7858.8	7786.9	7764.5	7841.4	7598.4	6998.3	6628.8	5118.5
27.5°	8962.4	8853.2	8781.3	8540.8	8347.3	8317.6	8280.4	8149.0	7603.4	7204.1	5512.8
30°	9748.5	9661.7	9564.9	9180.6	8979.7	8947.5	8764.0	8801.1	8260.6	7816.6	5959.2
32.5°	10343.6	10351.1	10130.3	9840.2	9651.7	9480.7	9413.6	9520.3	9103.7	8746.6	6457.6
35°	10824.8	10847.0	10636.3	10373.4	10170.0	10289.0	10259.4	10308.9	10110.5	9674.1	7037.9
37.5°	11293.5	11181.9	10956.2	10829.7	10723.1	10919.0	11171.9	11214.1	11251.3	10738.0	7712.5
40°	11370.3	11380.2	11248.8	11338.1	11204.1	11499.2	12087.0	12032.4	12183.7	11734.9	8444.1
42.5°	11261.2	11283.5	11335.6	11462.1	11784.4	12139.1	13012.0	12788.8	12972.3	12573.0	9155.8
45°	11082.6	10990.9	11055.4	11536.5	12094.4	12883.0	13857.7	13684.1	13624.5	13289.7	10003.9
47.5°	10229.6	10323.8	10524.7	11117.3	11955.6	13012.0	14457.8	14418.1	14596.6	14361.1	10775.1
50°	9046.6	9009.5	9396.3	10063.4	11144.7	12759.1	14425.6	14785.1	15169.5	14842.1	11119.9
52.5°	6775.1	6973.5	7305.8	8134.1	9676.5	11380.2	13721.3	14321.4	14633.8	14564.4	10842.1
55°	4282.8	4342.3	4543.2	5527.7	6916.5	9133.4	11762.1	13153.3	13711.3	13971.7	10586.7
57.5°	2080.6	1969.0	2214.5	3005.6	3995.1	6142.7	9071.4	11457.1	12669.7	13141.0	10031.2
60°	1086.2	1128.4	1225.1	1507.7	2065.7	3189.2	5654.1	7635.6	9488.1	10212.2	7603.4
62.5°	900.2	915.1	979.6	1120.9	1373.9	1835.1	2886.6	3722.4	4838.3	5490.5	4324.9
65°	763.8	771.3	840.7	934.9	1096.1	1292.0	1485.5	1554.9	1882.2	1931.9	1537.5
67.5°	637.3	644.8	719.1	808.5	912.6	964.7	1014.2	1009.3	1046.5	1031.7	1029.1
70°	491.1	498.5	575.3	669.6	721.7	691.9	845.6	880.4	895.2	907.6	927.5
72.5°	354.6	369.5	429.0	495.9	468.7	538.2	696.9	748.9	768.8	776.2	801.0
75°	257.9	262.9	277.8	257.9	297.5	374.5	491.1	555.5	580.3	587.8	624.9
77.5°	114.0	116.6	119.0	148.8	191.0	233.1	292.7	344.7	379.5	389.4	399.2
80°	59.5	62.0	76.9	101.7	136.4	171.1	213.3	243.0	265.3	267.9	277.8
82.5°	37.2	39.7	54.6	71.9	96.7	126.5	156.3	181.1	198.4	200.8	203.4
85°	17.3	22.3	32.2	44.7	64.5	81.8	84.4	71.9	76.9	79.4	74.4
87.5°	5.0	7.4	9.9	7.4	9.9	9.9	12.4	14.9	14.9	14.9	17.3
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°	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8
2.5°	2834.5	2812.2	2725.4	2693.1	2608.9	2623.8	2579.1	2576.6	2566.7	2564.2	2561.8
5°	2904.0	2834.5	2730.4	2651.0	2603.9	2598.9	2566.7	2566.7	2576.6	2584.1	2566.7
7.5°	3018.0	2938.7	2762.6	2688.2	2646.0	2638.6	2616.3	2598.9	2621.2	2613.8	2594.0
10°	3149.5	3010.6	2824.6	2760.2	2690.7	2673.3	2673.3	2680.8	2643.6	2656.0	2636.1
12.5°	3295.8	3109.8	2904.0	2829.5	2747.7	2737.8	2732.8	2678.2	2698.1	2688.2	2638.6
15°	3481.7	3223.9	3005.6	2879.2	2809.7	2765.1	2700.6	2690.7	2678.2	2653.5	2631.2
17.5°	3682.7	3347.9	3052.7	2894.0	2789.8	2757.6	2708.0	2656.0	2618.8	2623.8	2606.3
20°	3853.8	3461.9	3070.1	2908.9	2775.0	2713.0	2636.1	2603.9	2564.2	2561.8	2559.2
22.5°	4057.1	3615.7	3094.9	2869.2	2730.4	2665.9	2613.8	2556.8	2529.5	2494.7	2512.2
25°	4300.1	3675.2	3099.8	2847.0	2698.1	2584.1	2556.8	2494.7	2484.8	2435.3	2445.2
27.5°	4476.2	3707.5	3060.2	2777.5	2623.8	2537.0	2487.3	2442.7	2425.4	2388.1	2378.2
30°	4711.8	3757.1	2975.9	2690.7	2549.3	2452.6	2422.8	2412.9	2363.4	2323.7	2318.7
32.5°	4979.6	3789.3	2921.3	2601.4	2472.5	2398.0	2412.9	2365.8	2303.8	2269.1	2259.2
35°	5192.9	3801.7	2784.9	2499.7	2420.4	2373.2	2355.9	2346.0	2256.7	2224.4	2199.6
37.5°	5517.8	3774.4	2670.8	2427.8	2363.4	2346.0	2331.1	2264.1	2162.5	2115.4	2080.6
40°	5897.2	3766.9	2524.5	2326.1	2308.8	2328.6	2284.0	2179.8	2038.5	1986.4	1961.6
42.5°	6261.7	3819.1	2432.8	2271.6	2249.3	2256.7	2194.7	2038.5	1969.0	1939.3	1899.6
45°	6871.8	3928.1	2281.5	2187.3	2177.3	2172.4	2098.0	1934.3	1894.6	1857.4	1850.0
47.5°	7422.3	3856.2	2184.7	2100.5	2110.4	2083.1	1924.4	1872.3	1827.7	1790.5	1778.1
50°	7454.5	3685.1	2048.4	2033.5	2036.0	1988.9	1837.6	1802.9	1745.8	1721.0	1703.7
52.5°	7285.9	3404.9	1921.9	1926.9	1934.3	1857.4	1730.9	1706.1	1659.0	1624.3	1614.4
55°	6812.3	2968.4	1797.9	1817.7	1837.6	1691.3	1651.6	1589.6	1552.4	1502.8	1505.3
57.5°	6001.4	2390.6	1624.3	1656.6	1698.7	1537.5	1507.7	1430.9	1376.4	1336.7	1331.7
60°	4022.4	1701.2	1363.9	1376.4	1470.6	1406.1	1403.6	1326.8	1252.3	1217.6	1197.8
62.5°	2373.2	1299.4	1178.0	1165.5	1163.1	1200.3	1262.3	1235.0	1138.3	1071.3	1091.1
65°	1242.4	1123.4	1096.1	1053.9	1029.1	1019.2	1066.4	1078.8	1014.2	942.3	937.4
67.5°	1044.0	1044.0	1021.7	1006.8	972.1	930.0	900.2	860.5	850.6	830.7	805.9
70°	949.8	974.6	967.2	932.4	902.6	855.5	778.7	714.2	652.2	629.9	644.8
72.5°	828.3	853.1	853.1	835.7	796.0	724.1	649.8	575.3	523.3	483.6	478.6
75°	637.3	649.8	679.5	659.7	607.5	563.0	486.1	409.1	359.6	322.4	315.0
77.5°	406.7	426.6	426.6	424.0	386.9	344.7	295.1	240.5	203.4	176.1	168.6
80°	270.3	282.7	292.7	282.7	257.9	225.6	188.5	151.3	124.0	101.7	96.7
82.5°	198.4	213.3	220.7	210.8	186.0	161.2	133.9	106.6	79.4	62.0	57.0
85°	76.9	79.4	89.3	106.6	104.1	101.7	81.8	59.5	44.7	32.2	29.8
87.5°	19.8	17.3	19.8	19.8	17.3	14.9	14.9	14.9	14.9	7.4	9.9
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)