

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642946

Luminaire Tested: GWS-SA6D-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28232.9 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

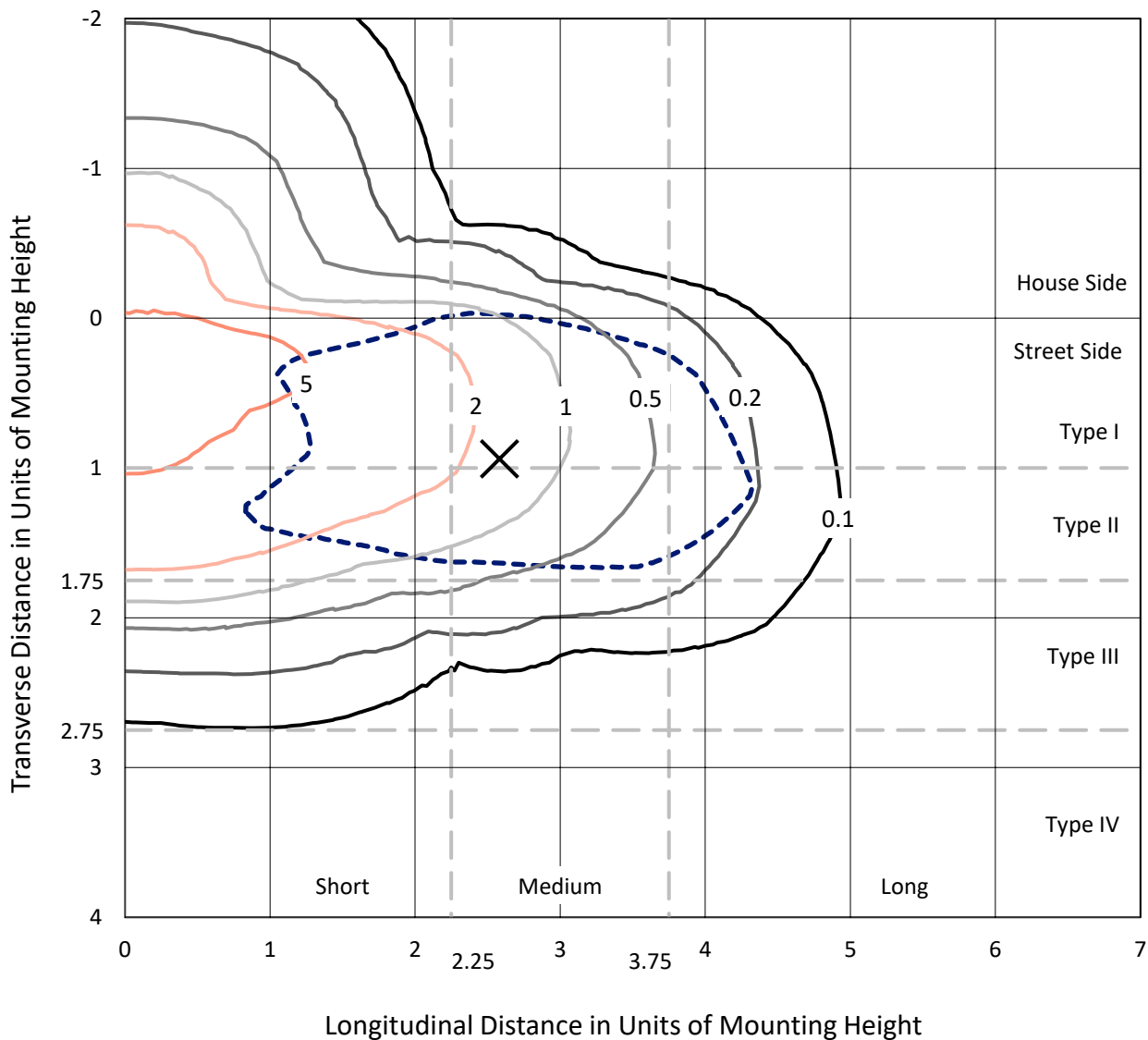
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

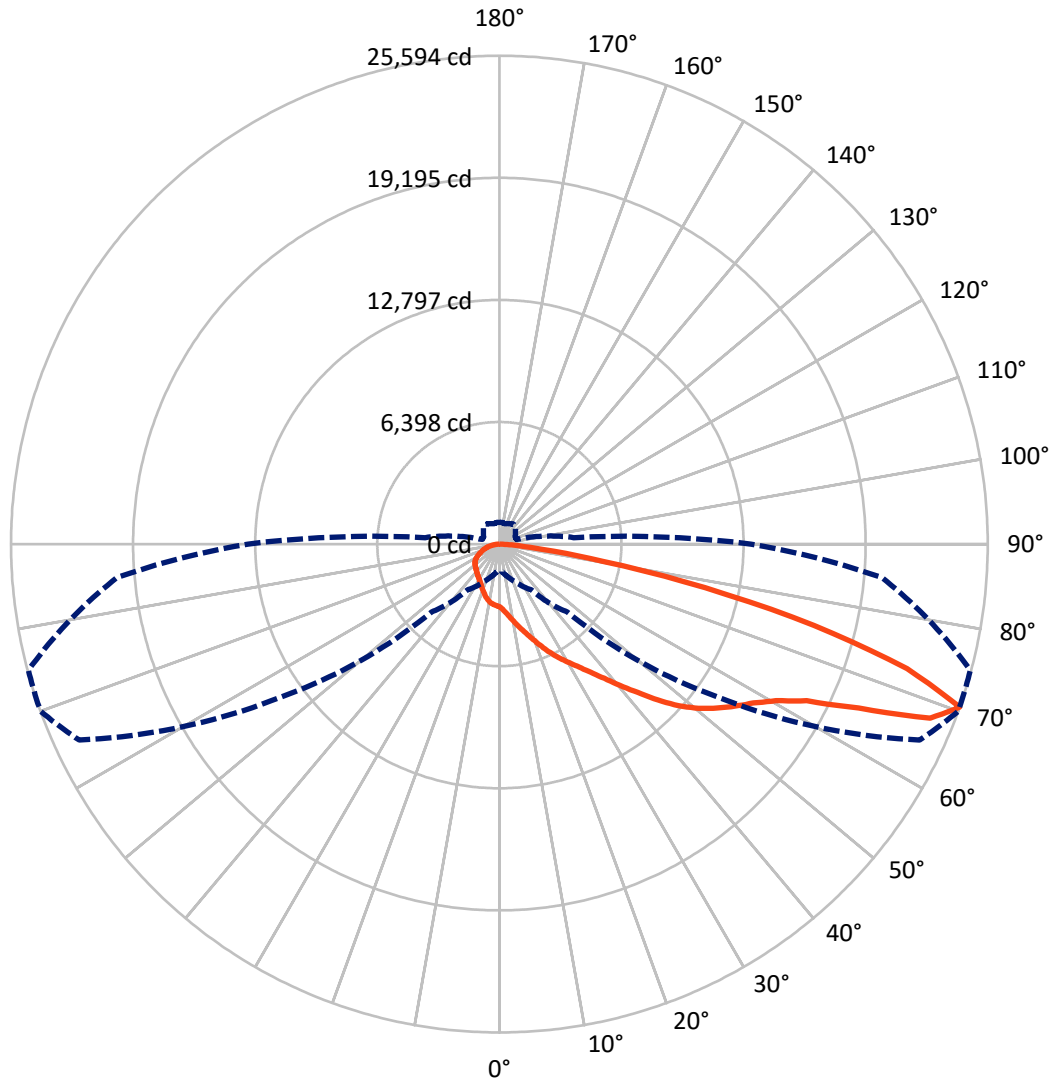
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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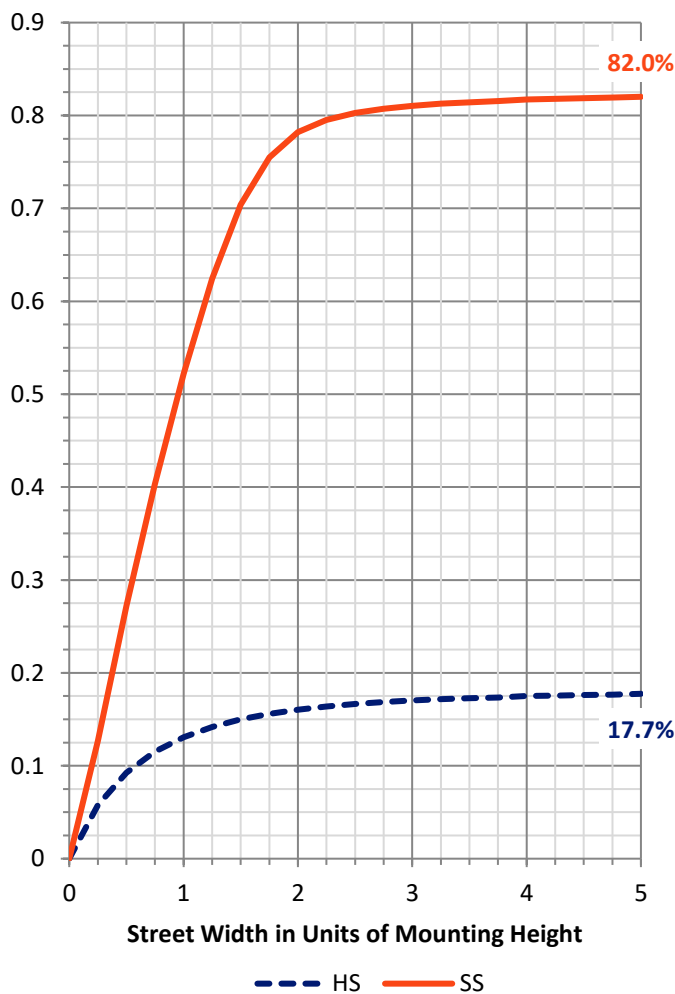
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5059.4	0.0	5059.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	23173.5	0.0	23173.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	28232.9	0.0	28232.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.6	1.2
10°-20°	1088.6	3.9
20°-30°	1928.5	6.8
30°-40°	2902.5	10.3
40°-50°	4391.1	15.6
50°-60°	6290.5	22.3
60°-70°	6953.4	24.6
70°-80°	3924.0	13.9
80°-90°	419.7	1.5
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°	28232.9	100.0
0°-180°	28232.9	100.0

Coefficient of Utilization



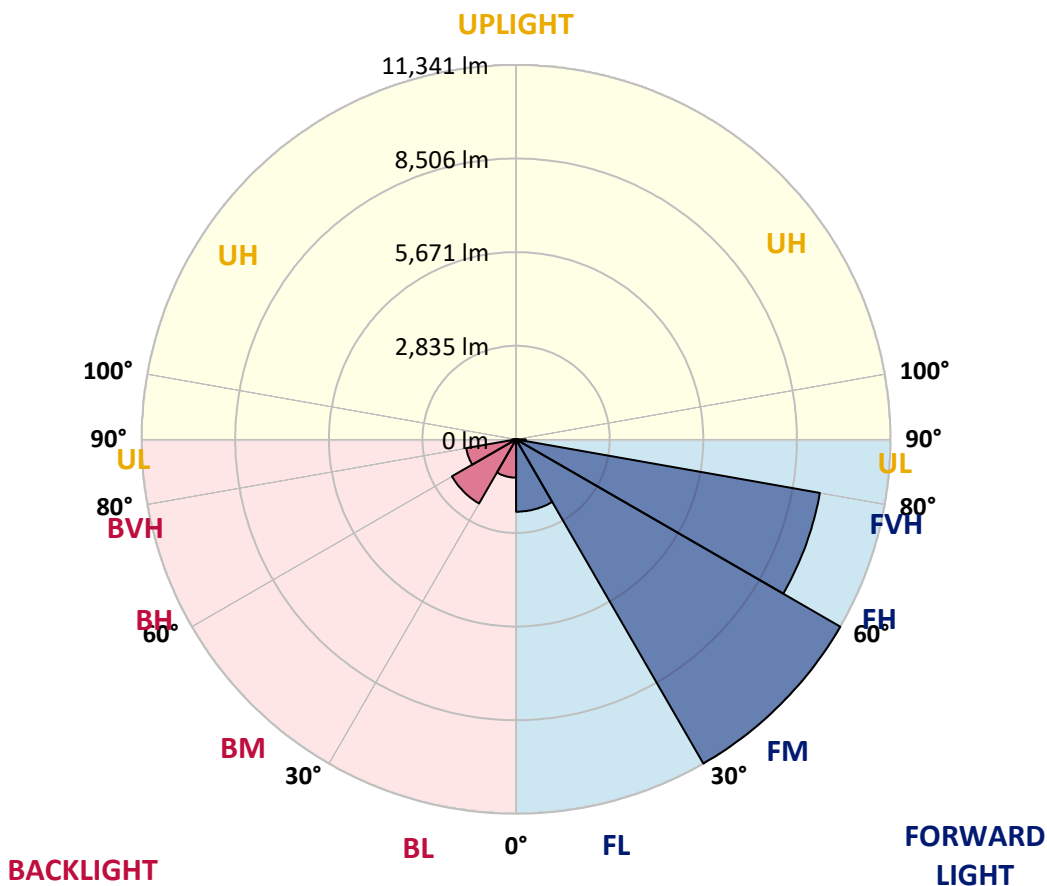
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.7	7.8			
FM (30°-60°)	11341.1	40.2			
FH (60°-80°)	9343.9	33.1			G4/12000
FVH (80°-90°)	296.7	1.1			G3/500
BL (0°-30°)	1160.0	4.1	B3/2500		
BM (30°-60°)	2242.9	7.9	B2/2500		
BH (60°-80°)	1533.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	123.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5
2.5°	3647.5	3641.4	3645.5	3641.4	3618.9	3563.9	3519.0	3461.9	3423.1	3400.7	3347.6
5°	4075.9	4069.8	4055.5	4035.1	3994.3	3918.8	3806.6	3682.2	3606.7	3549.6	3437.4
7.5°	4383.9	4383.9	4381.9	4357.4	4328.9	4249.3	4116.7	3953.5	3843.3	3745.4	3561.8
10°	4541.0	4551.2	4565.5	4600.2	4594.1	4551.2	4426.8	4251.3	4112.6	3998.4	3725.0
12.5°	4626.7	4632.8	4657.3	4728.7	4802.1	4812.3	4738.9	4555.3	4404.3	4251.3	3906.6
15°	4736.9	4738.9	4771.5	4857.2	4965.3	5073.5	5055.1	4871.5	4716.5	4547.1	4108.5
17.5°	4822.5	4836.8	4896.0	4995.9	5130.6	5279.5	5369.2	5255.0	5063.3	4869.5	4328.9
20°	4853.1	4863.3	4940.9	5093.9	5277.4	5487.6	5687.5	5656.9	5463.1	5234.6	4577.7
22.5°	4963.3	4963.3	5020.4	5148.9	5365.2	5671.2	5995.5	6075.1	5903.7	5636.5	4845.0
25°	5206.0	5197.9	5224.4	5277.4	5440.6	5818.0	6299.5	6538.2	6346.4	6046.5	5112.2
27.5°	5538.6	5534.5	5532.4	5540.6	5595.7	5946.6	6556.5	6970.6	6778.9	6440.2	5350.9
30°	5899.6	5887.4	5913.9	5889.4	5877.2	6099.6	6774.8	7358.2	7209.3	6829.9	5548.8
32.5°	6391.3	6368.8	6362.7	6283.2	6234.2	6338.2	6950.2	7798.9	7680.6	7250.1	5771.1
35°	7040.0	7019.6	6915.6	6789.1	6644.2	6693.2	7168.5	8229.3	8237.5	7776.4	6062.8
37.5°	7694.8	7698.9	7617.3	7319.5	7170.6	7142.0	7501.0	8753.6	8929.0	8404.8	6440.2
40°	8239.5	8264.0	8264.0	7949.8	7727.5	7701.0	7968.2	9375.8	9724.6	9175.9	6917.6
42.5°	8653.6	8676.1	8747.5	8521.0	8286.4	8378.2	8535.3	10000.0	10626.3	10128.5	7521.4
45°	9108.5	9126.9	9165.7	9035.1	8898.4	9143.2	9177.9	10746.7	11658.5	11197.5	8223.2
47.5°	9712.4	9696.1	9700.1	9604.3	9498.2	9893.9	9885.8	11375.0	12656.1	12368.4	8984.1
50°	10463.1	10493.7	10465.1	10275.4	10151.0	10512.1	10559.0	12070.6	13533.3	13527.2	9751.1
52.5°	11185.3	11197.5	11348.5	11356.6	11101.6	11026.1	11148.5	12772.4	14273.8	14588.0	10487.6
55°	11222.0	11268.9	11721.8	12048.2	12460.2	11854.4	11744.2	13441.5	14989.8	15626.3	11252.6
57.5°	10440.7	10516.1	11285.2	11989.0	13135.5	13276.2	12764.2	14306.4	15705.9	16648.3	12137.9
60°	8771.9	8929.0	9973.5	11050.6	12831.5	14298.3	14851.1	15481.5	16646.3	17692.8	13213.0
62.5°	5601.8	5663.0	7127.7	8931.1	11462.7	14198.3	17123.7	17552.1	18078.4	19053.5	14869.5
65°	2805.0	3000.8	3859.7	5330.5	8266.0	12511.2	18272.2	21344.4	20699.8	21383.2	17554.1
67.5°	1903.3	1966.5	2401.1	3202.8	4847.0	8863.7	17560.2	24539.0	24349.3	24461.5	20416.2
70°	1403.5	1444.3	1787.0	2268.5	2931.5	5032.7	13980.0	24298.3	25593.7	25552.9	20116.3
72.5°	1024.1	1044.5	1303.6	1731.9	2172.6	2603.0	8537.4	19628.8	22341.9	23519.0	17592.9
75°	744.6	769.1	905.8	1295.4	1689.1	1623.8	4214.6	14177.9	17038.0	19302.4	14333.0
77.5°	554.9	585.5	648.7	811.9	1183.2	1162.8	1821.7	9206.5	11020.0	12607.1	8706.7
80°	399.8	406.0	442.7	520.2	750.7	681.4	867.0	4800.1	5503.9	6030.2	3412.9
82.5°	242.8	248.9	295.8	320.3	465.1	428.4	450.8	1554.5	2227.7	2364.3	1275.0
85°	71.4	75.5	134.6	146.9	193.8	183.6	181.6	632.4	754.8	964.9	501.8
87.5°	0.0	0.0	0.0	0.0	2.0	12.2	22.4	112.2	169.3	234.6	122.4
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°	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5
2.5°	3327.2	3280.3	3255.8	3213.0	3182.4	3151.8	3121.2	3092.6	3080.4	3062.0	3066.1
5°	3386.4	3312.9	3239.5	3155.9	3084.5	3025.3	2972.3	2925.3	2904.9	2886.6	2894.7
7.5°	3476.1	3366.0	3225.2	3072.2	2960.0	2878.4	2823.3	2790.7	2780.5	2766.2	2766.2
10°	3590.4	3425.1	3178.3	2960.0	2825.4	2760.1	2735.6	2733.6	2743.8	2745.8	2741.7
12.5°	3716.9	3482.3	3108.9	2827.4	2713.2	2692.8	2711.1	2745.8	2780.5	2798.9	2794.8
15°	3847.4	3519.0	2990.6	2700.9	2631.6	2658.1	2717.3	2786.6	2853.9	2888.6	2886.6
17.5°	3969.8	3527.1	2837.6	2578.5	2560.2	2627.5	2729.5	2837.6	2929.4	2978.4	2980.4
20°	4106.5	3512.9	2680.5	2468.4	2488.8	2598.9	2733.6	2864.1	2972.3	3021.2	3033.5
22.5°	4230.9	3463.9	2527.5	2364.3	2427.6	2564.3	2700.9	2823.3	2919.2	2966.1	2982.5
25°	4343.1	3370.1	2360.3	2276.6	2380.7	2515.3	2619.3	2705.0	2772.3	2800.9	2823.3
27.5°	4404.3	3229.3	2233.8	2207.3	2335.8	2445.9	2503.1	2529.6	2552.0	2543.9	2560.2
30°	4416.6	3053.9	2123.6	2152.2	2268.5	2350.1	2362.3	2335.8	2297.0	2233.8	2248.1
32.5°	4404.3	2851.9	2031.8	2093.0	2193.0	2241.9	2225.6	2156.3	2062.4	1964.5	1970.6
35°	4408.4	2647.9	1956.3	2027.7	2105.3	2131.8	2091.0	1995.1	1895.1	1805.4	1801.3
37.5°	4453.3	2476.5	1893.1	1964.5	2019.6	2023.7	1978.8	1878.8	1827.8	1760.5	1752.3
40°	4577.7	2350.1	1836.0	1901.3	1935.9	1933.9	1882.9	1811.5	1846.2	1823.7	1817.6
42.5°	4781.7	2272.5	1789.1	1833.9	1858.4	1862.5	1821.7	1776.8	1852.3	1823.7	1813.5
45°	5110.2	2268.5	1756.4	1766.6	1805.4	1833.9	1805.4	1754.4	1782.9	1644.2	1617.7
47.5°	5499.8	2337.8	1731.9	1707.5	1774.8	1825.8	1780.9	1699.3	1640.2	1513.7	1495.3
50°	5969.0	2478.6	1709.5	1644.2	1729.9	1795.2	1750.3	1638.1	1548.4	1481.0	1470.8
52.5°	6525.9	2664.2	1681.0	1572.8	1662.6	1778.9	1750.3	1632.0	1513.7	1452.5	1442.3
55°	7109.4	2878.4	1648.3	1487.2	1587.1	1782.9	1764.6	1589.2	1487.2	1454.5	1446.4
57.5°	7833.6	3135.5	1589.2	1387.2	1519.8	1746.2	1707.5	1564.7	1468.8	1442.3	1434.1
60°	8774.0	3516.9	1477.0	1285.2	1442.3	1681.0	1656.5	1523.9	1419.8	1397.4	1391.3
62.5°	10263.2	4163.6	1340.3	1187.3	1350.5	1544.3	1581.0	1446.4	1358.6	1356.6	1354.6
65°	12690.8	4940.9	1179.1	1099.6	1254.6	1432.1	1481.0	1366.8	1295.4	1317.8	1315.8
67.5°	14392.1	5008.2	1046.5	1007.8	1142.4	1309.7	1381.1	1285.2	1207.7	1250.5	1248.5
70°	13182.4	3906.6	932.3	911.9	1022.0	1177.1	1273.0	1183.2	1105.7	1146.5	1138.3
72.5°	11117.9	2994.7	824.2	811.9	899.6	1038.4	1134.2	1081.2	999.6	999.6	981.2
75°	8935.1	2470.4	709.9	703.8	763.0	897.6	1005.7	916.0	840.5	836.4	824.2
77.5°	5124.5	1619.8	595.7	591.6	610.0	750.7	781.3	763.0	705.8	679.3	671.2
80°	2042.0	842.5	469.2	442.7	461.0	550.8	616.1	585.5	536.5	503.9	485.5
82.5°	791.5	422.3	330.5	289.7	316.2	397.8	446.8	436.6	403.9	330.5	310.1
85°	322.3	206.0	197.9	167.3	183.6	214.2	257.0	222.4	183.6	130.6	124.4
87.5°	85.7	75.5	73.4	44.9	34.7	10.2	2.0	0.0	0.0	0.0	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)