

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: P640155

Luminaire Tested: GWS-SA5D-730-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26423.2 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

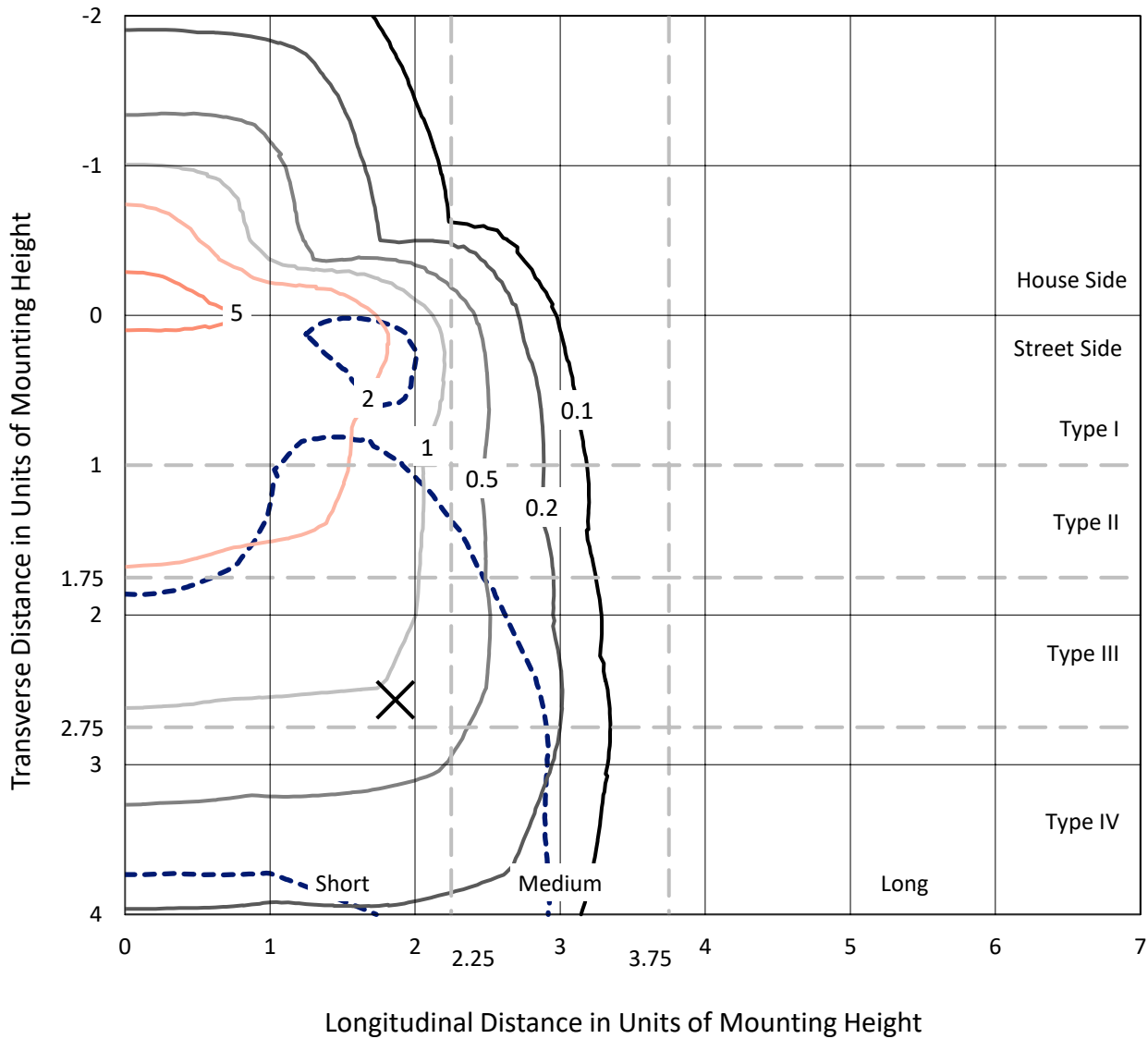
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

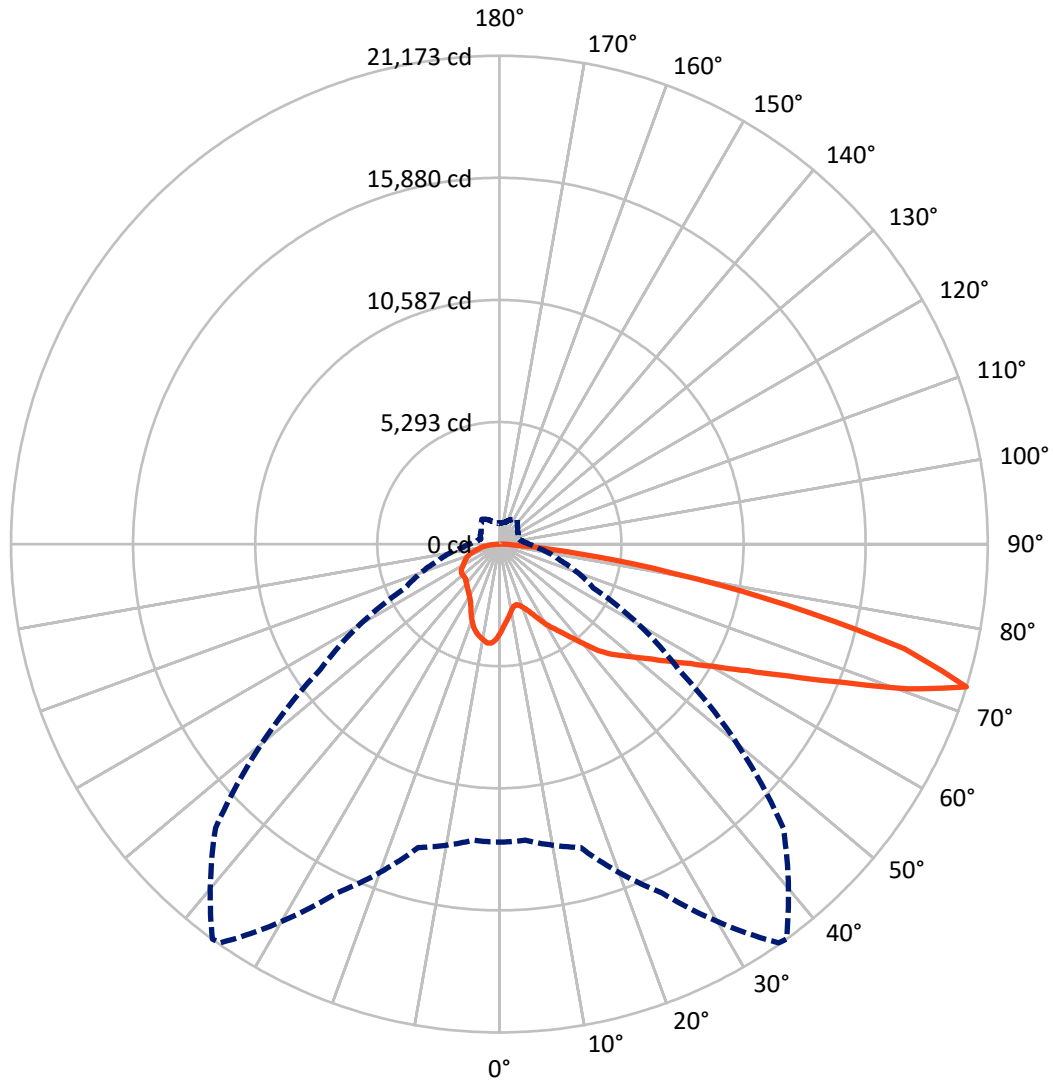
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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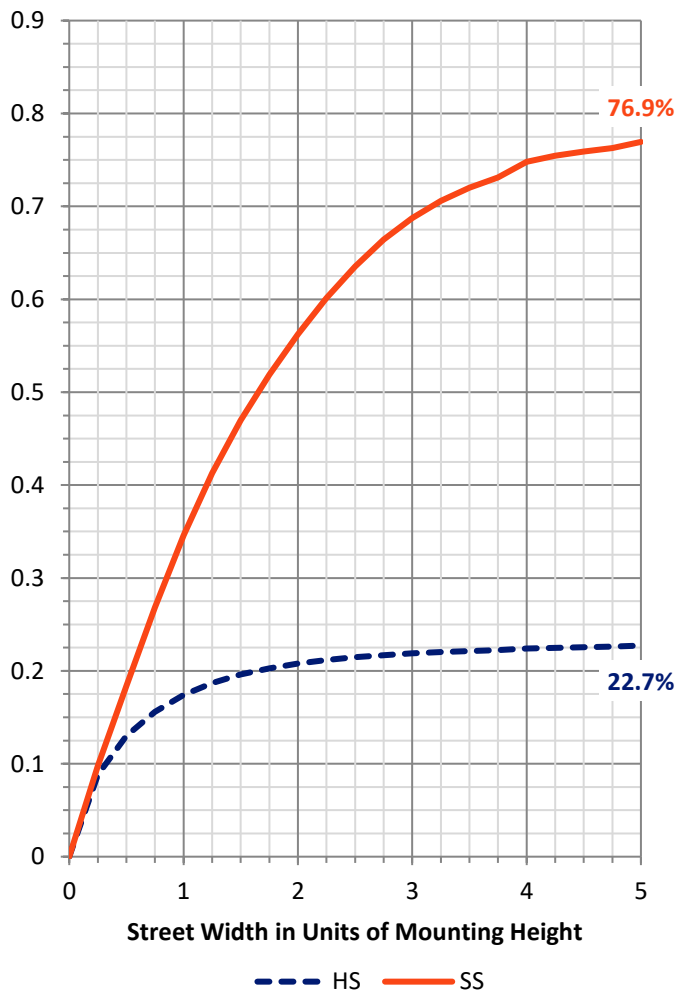
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6091.7	0.0	6091.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	20331.5	0.0	20331.5
	% Fixture	76.9	0.0	76.9
Total	Lumens	26423.2	0.0	26423.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	1.4
10°-20°	1019.9	3.9
20°-30°	1689.0	6.4
30°-40°	2529.4	9.6
40°-50°	3690.2	14.0
50°-60°	5252.3	19.9
60°-70°	6635.9	25.1
70°-80°	4728.7	17.9
80°-90°	516.2	2.0
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°	26423.2	100.0
0°-180°	26423.2	100.0

Coefficient of Utilization



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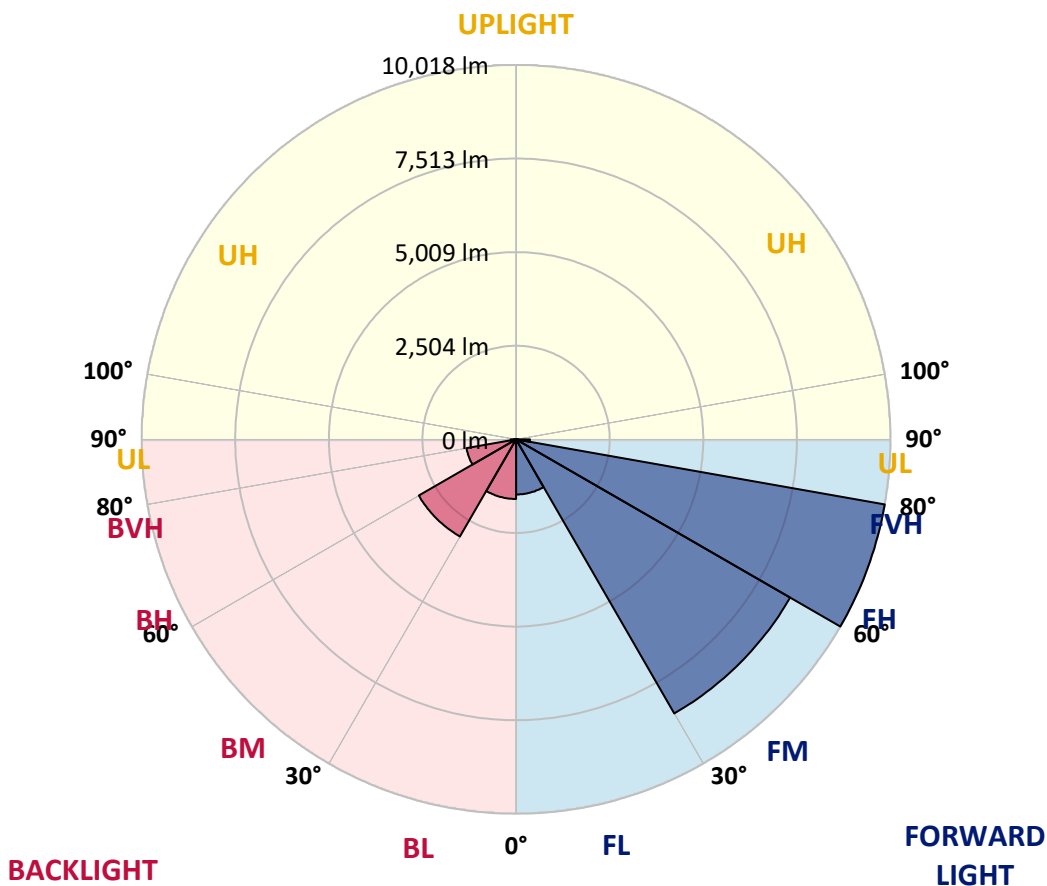
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1475.1	5.6			
FM (30°-60°)	8468.0	32.0			
FH (60°-80°)	10017.9	37.9			G4/12000
FVH (80°-90°)	370.5	1.4			G3/500
BL (0°-30°)	1595.2	6.0	B3/2500		
BM (30°-60°)	3004.1	11.4	B3/5000		
BH (60°-80°)	1346.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	145.7	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2
2.5°	3527.9	3522.0	3510.2	3545.5	3580.8	3576.9	3625.9	3673.0	3724.0	3776.9	3847.5
5°	3245.5	3241.6	3231.8	3284.7	3337.7	3335.7	3416.1	3492.6	3596.5	3710.3	3851.5
7.5°	2963.1	2953.3	2967.0	3033.7	3108.2	3116.1	3225.9	3351.4	3502.4	3673.0	3873.0
10°	2714.1	2712.1	2718.0	2792.5	2904.3	2912.1	3053.3	3227.9	3427.9	3655.4	3922.1
12.5°	2649.4	2645.4	2629.7	2667.0	2751.3	2763.1	2918.0	3131.8	3376.9	3665.2	3988.7
15°	2755.2	2745.4	2690.5	2672.9	2714.1	2723.9	2855.3	3074.9	3347.5	3682.8	4073.1
17.5°	2937.6	2931.7	2827.8	2755.2	2782.7	2790.5	2888.6	3065.1	3339.6	3718.1	4177.0
20°	3204.3	3178.8	3016.1	2906.2	2906.2	2918.0	2976.8	3108.2	3349.4	3761.3	4294.7
22.5°	3557.3	3506.3	3276.9	3127.8	3088.6	3104.3	3129.8	3216.1	3390.6	3833.8	4441.7
25°	3953.4	3906.4	3633.8	3424.0	3369.1	3374.9	3353.4	3369.1	3480.8	3933.8	4624.1
27.5°	4375.1	4343.7	4053.5	3786.8	3700.5	3700.5	3624.0	3586.7	3606.3	4047.6	4828.1
30°	4751.6	4708.4	4463.3	4171.1	4057.4	4057.4	3912.3	3831.9	3784.8	4186.8	5100.6
32.5°	4949.6	4924.1	4761.4	4537.8	4398.6	4377.0	4251.5	4157.4	4047.6	4392.7	5469.3
35°	5208.5	5202.6	5104.6	4930.0	4753.5	4722.2	4635.9	4561.4	4371.1	4649.6	5959.6
37.5°	5534.0	5524.2	5508.5	5404.6	5192.8	5186.9	5110.4	5020.2	4773.2	5020.2	6553.8
40°	5898.8	5881.1	5861.5	5859.6	5732.1	5710.5	5704.6	5602.7	5257.5	5467.4	7173.5
42.5°	6400.8	6340.0	6155.7	6238.0	6332.2	6312.6	6387.1	6234.1	5861.5	5998.8	7759.8
45°	7018.5	6869.5	6504.7	6528.3	6765.6	6804.8	7063.6	7026.4	6526.3	6612.6	8377.5
47.5°	7389.2	7259.7	6920.5	6900.9	7197.0	7246.0	7808.8	7879.4	7242.1	7351.9	9140.4
50°	7693.1	7602.9	7324.5	7351.9	7665.7	7714.7	8548.1	8699.1	7916.7	8108.9	10026.8
52.5°	8059.8	7930.4	7714.7	7844.1	8228.5	8287.3	9369.8	9532.6	8524.6	8940.3	10944.5
55°	8265.7	8212.8	8216.7	8414.8	8897.2	8977.6	10230.7	10203.2	9081.5	9652.2	11634.8
57.5°	8740.3	8720.7	8901.1	8975.6	9677.7	9781.6	11091.6	10856.3	9587.5	10203.2	11966.2
60°	9577.7	9528.7	9685.5	9799.3	10642.5	10789.6	12052.5	11495.6	9930.7	10613.1	11854.4
62.5°	10754.3	10693.5	10699.4	10879.8	11934.8	12089.8	13121.3	12029.0	10036.6	10675.9	11146.5
65°	12217.2	12129.0	12029.0	12274.1	13650.7	13780.2	14284.2	12417.3	9783.6	10071.9	9667.9
67.5°	13760.6	13688.0	13570.3	14084.1	15872.6	15951.0	15588.2	12383.9	8981.5	8456.0	6781.2
70°	13850.8	13868.4	14425.3	16284.4	18773.0	18792.6	16821.7	11713.2	7273.5	5481.1	3378.9
72.5°	12921.2	12891.8	13617.4	16686.4	21106.6	21173.3	17404.2	9489.4	4494.7	2733.7	1584.5
75°	10495.4	10546.4	11309.3	14599.9	18090.5	18149.3	14188.1	5594.8	2135.6	1337.4	1013.9
77.5°	4518.2	4802.6	6306.7	10285.6	12956.5	12774.2	7312.7	2267.0	1139.4	953.1	776.6
80°	1304.1	1415.9	2247.3	4890.8	7763.7	7626.5	2894.5	849.1	794.2	715.8	556.9
82.5°	421.6	466.7	823.6	1947.3	3478.9	3474.9	1098.2	502.0	519.7	486.3	358.9
85°	117.7	135.3	253.0	590.3	1076.6	1055.0	317.7	237.3	276.5	280.4	178.5
87.5°	0.0	0.0	2.0	3.9	3.9	3.9	7.8	35.3	80.4	102.0	72.6
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°	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2	3867.2
2.5°	3890.7	3884.8	3965.2	4028.0	4086.8	4126.0	4137.8	4145.6	4161.3	4169.2	4161.3
5°	3918.1	3947.6	4080.9	4179.0	4257.4	4304.5	4306.4	4302.5	4314.3	4304.5	4298.6
7.5°	3977.0	4033.8	4202.5	4306.4	4357.4	4359.4	4312.3	4257.4	4229.9	4206.4	4198.6
10°	4055.4	4139.7	4324.1	4392.7	4377.0	4304.5	4200.5	4114.2	4065.2	4029.9	4022.1
12.5°	4163.3	4257.4	4431.9	4430.0	4331.9	4202.5	4080.9	3977.0	3906.4	3865.2	3851.5
15°	4265.2	4384.9	4510.4	4418.2	4263.3	4106.4	3949.5	3810.3	3716.2	3651.4	3639.7
17.5°	4390.7	4518.2	4567.2	4380.9	4177.0	3975.0	3765.2	3582.8	3455.3	3378.9	3373.0
20°	4535.9	4649.6	4594.7	4316.2	4065.2	3800.5	3516.1	3312.2	3174.9	3100.4	3106.3
22.5°	4704.5	4786.9	4602.5	4228.0	3910.3	3553.4	3235.7	3039.6	2947.4	2908.2	2910.2
25°	4884.9	4937.9	4588.8	4108.4	3673.0	3251.4	2947.4	2857.2	2849.4	2839.6	2843.5
27.5°	5098.7	5086.9	4547.6	3939.7	3353.4	2900.4	2745.4	2769.0	2800.4	2796.4	2800.4
30°	5385.0	5273.2	4494.7	3706.3	2972.9	2606.2	2625.8	2692.5	2733.7	2737.6	2749.4
32.5°	5712.5	5479.1	4410.4	3388.7	2610.1	2441.5	2514.0	2594.4	2643.5	2653.3	2669.0
35°	6102.7	5714.4	4261.3	2992.5	2349.3	2343.4	2410.1	2465.0	2518.0	2521.9	2521.9
37.5°	6551.8	5949.8	4024.0	2555.2	2188.5	2259.1	2321.9	2333.6	2347.4	2335.6	2341.5
40°	6963.6	6177.2	3686.7	2157.1	2057.1	2184.6	2237.5	2198.3	2155.2	2125.8	2131.6
42.5°	7308.8	6332.2	3239.6	1878.7	1923.8	2117.9	2159.1	2078.7	1994.4	1939.5	1947.3
45°	7697.0	6475.3	2714.1	1690.4	1810.0	2070.8	2098.3	1994.4	1886.5	1804.1	1792.4
47.5°	8232.4	6767.5	2247.3	1559.0	1729.6	2045.4	2090.5	1949.3	1808.1	1684.5	1670.8
50°	8893.3	7181.3	1857.1	1472.7	1692.4	2031.6	2088.5	1900.2	1731.6	1586.5	1576.7
52.5°	9614.9	7585.3	1568.8	1406.1	1655.1	1990.4	2078.7	1845.3	1651.2	1494.3	1482.5
55°	10095.4	7744.1	1374.7	1343.3	1594.3	1925.7	2039.5	1792.4	1529.6	1386.4	1368.8
57.5°	10236.6	7540.2	1239.4	1286.4	1515.9	1835.5	1965.0	1680.6	1455.1	1341.3	1327.6
60°	9993.4	7026.4	1155.0	1239.4	1429.6	1719.8	1835.5	1615.9	1396.3	1294.3	1284.5
62.5°	9307.1	6234.1	1090.3	1190.3	1341.3	1598.2	1753.2	1537.4	1331.5	1251.1	1237.4
65°	7926.5	5112.4	1037.4	1139.4	1257.0	1482.5	1663.0	1459.0	1260.9	1200.2	1184.5
67.5°	5543.8	3590.6	980.5	1078.6	1172.7	1370.8	1568.8	1386.4	1188.4	1143.3	1127.6
70°	2710.1	1904.2	911.9	1008.0	1082.5	1257.0	1474.7	1298.2	1092.3	1066.8	1045.2
72.5°	1290.4	1064.8	831.5	911.9	958.9	1106.0	1317.8	1170.7	978.6	923.6	886.4
75°	864.8	757.0	725.6	798.1	809.9	927.6	1129.6	1009.9	862.9	800.1	768.7
77.5°	655.0	578.5	609.9	674.6	651.1	762.8	929.5	900.1	778.5	721.7	706.0
80°	460.8	421.6	484.4	523.6	505.9	649.1	837.4	770.7	641.3	578.5	566.7
82.5°	290.2	282.4	356.9	362.8	368.7	513.8	688.3	606.0	498.1	409.9	380.4
85°	145.1	160.8	213.8	213.8	211.8	264.7	392.2	341.2	268.7	213.8	207.9
87.5°	49.0	68.6	92.2	74.5	56.9	45.1	51.0	62.8	66.7	64.7	64.7
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)