

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: P643170

Luminaire Tested: GWS-SA6E-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45019.8 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

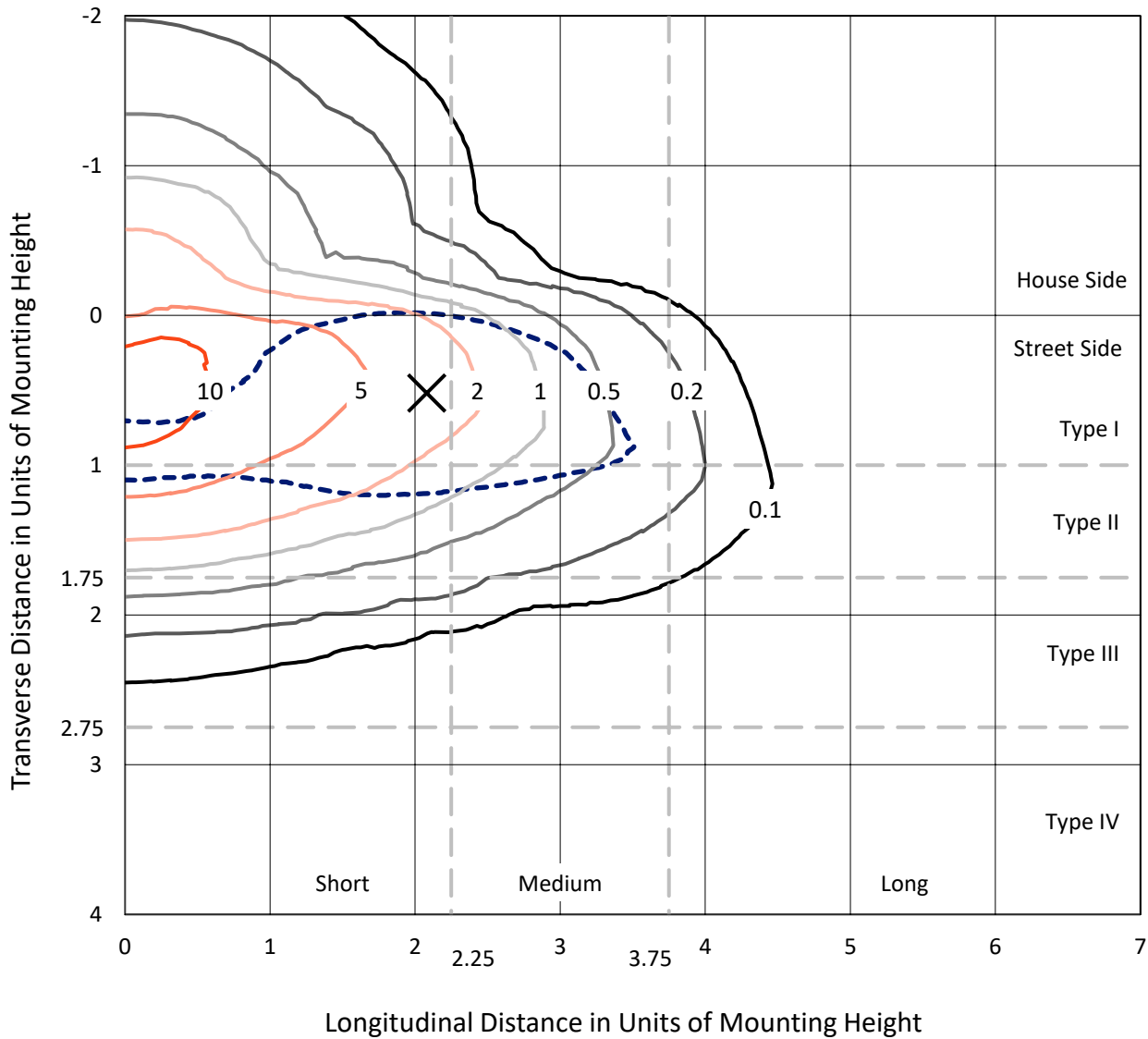
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643170
 CATALOG NUMBER: GWS-SA6E-735-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

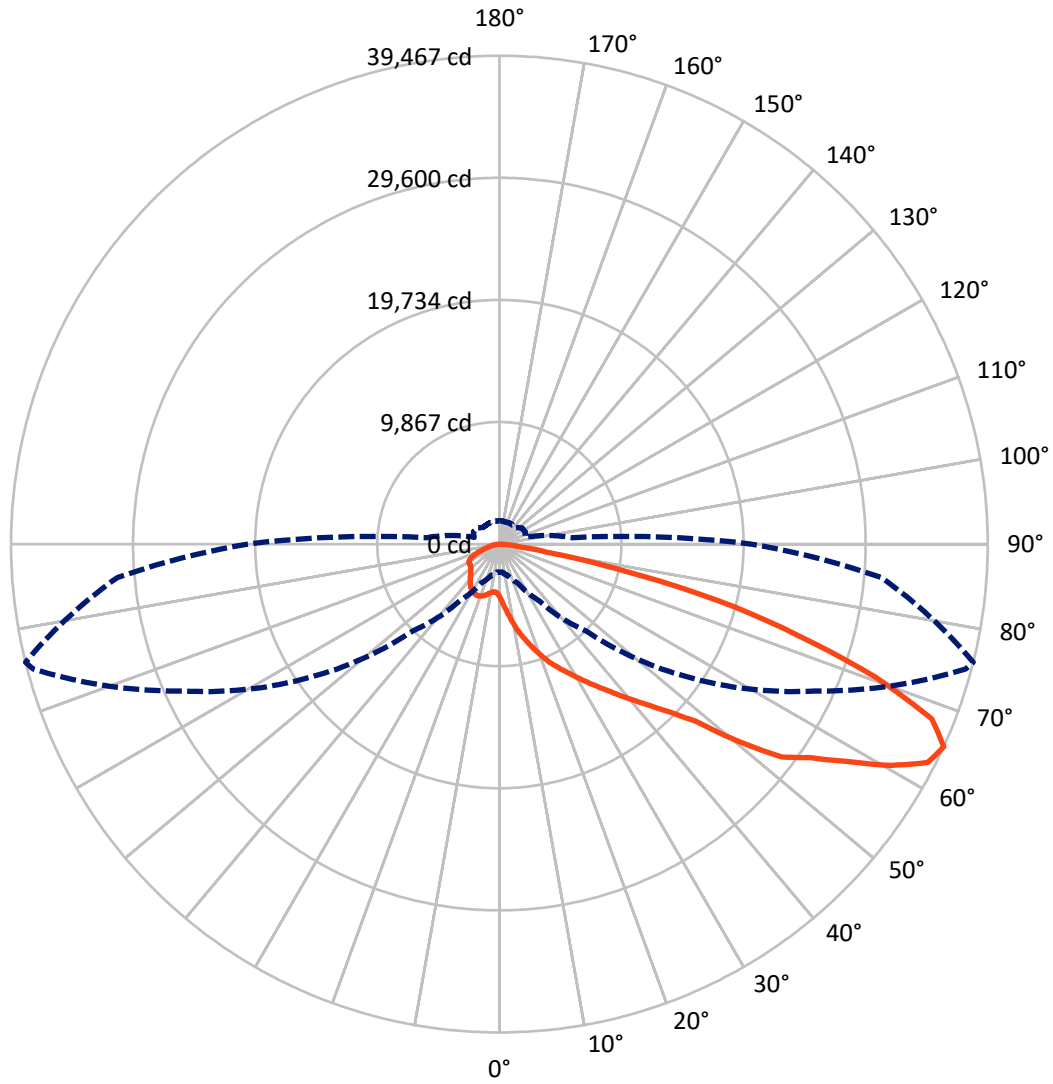
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P643170
CATALOG NUMBER: GWS-SA6E-735-U-T2R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P643170

CATALOG NUMBER: GWS-SA6E-735-U-T2R-W

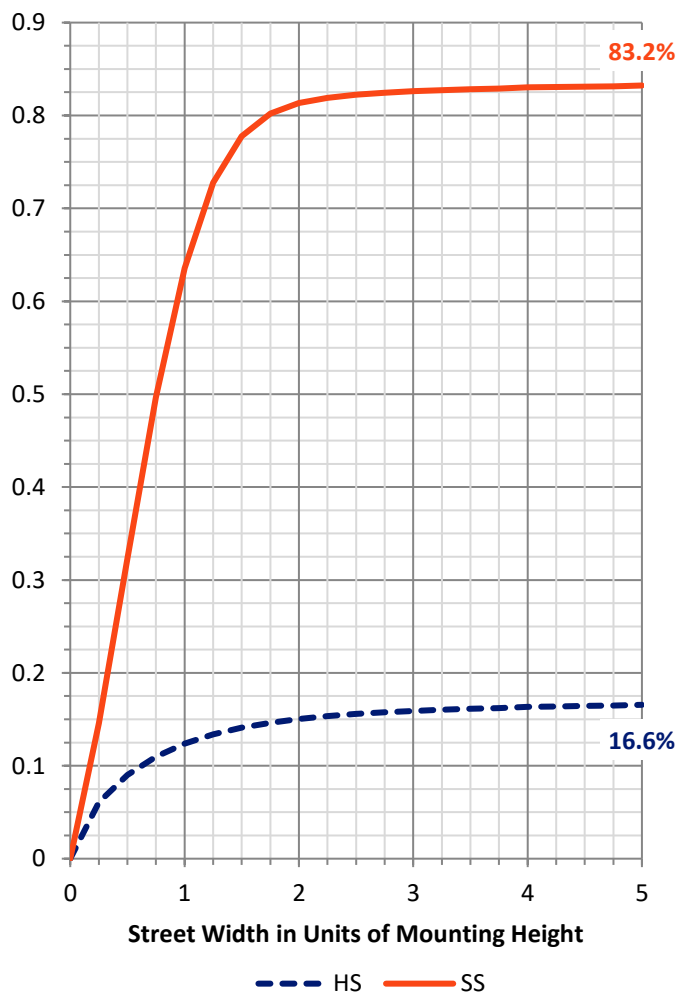
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7525.1	0.0	7525.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	37494.7	0.0	37494.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	45019.8	0.0	45019.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.5	1.1
10°-20°	1929.2	4.3
20°-30°	3759.7	8.4
30°-40°	6287.9	14.0
40°-50°	9003.0	20.0
50°-60°	10658.3	23.7
60°-70°	8862.4	19.7
70°-80°	3626.7	8.1
80°-90°	386.1	0.9
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°	45019.8	100.0
0°-180°	45019.8	100.0

Coefficient of Utilization



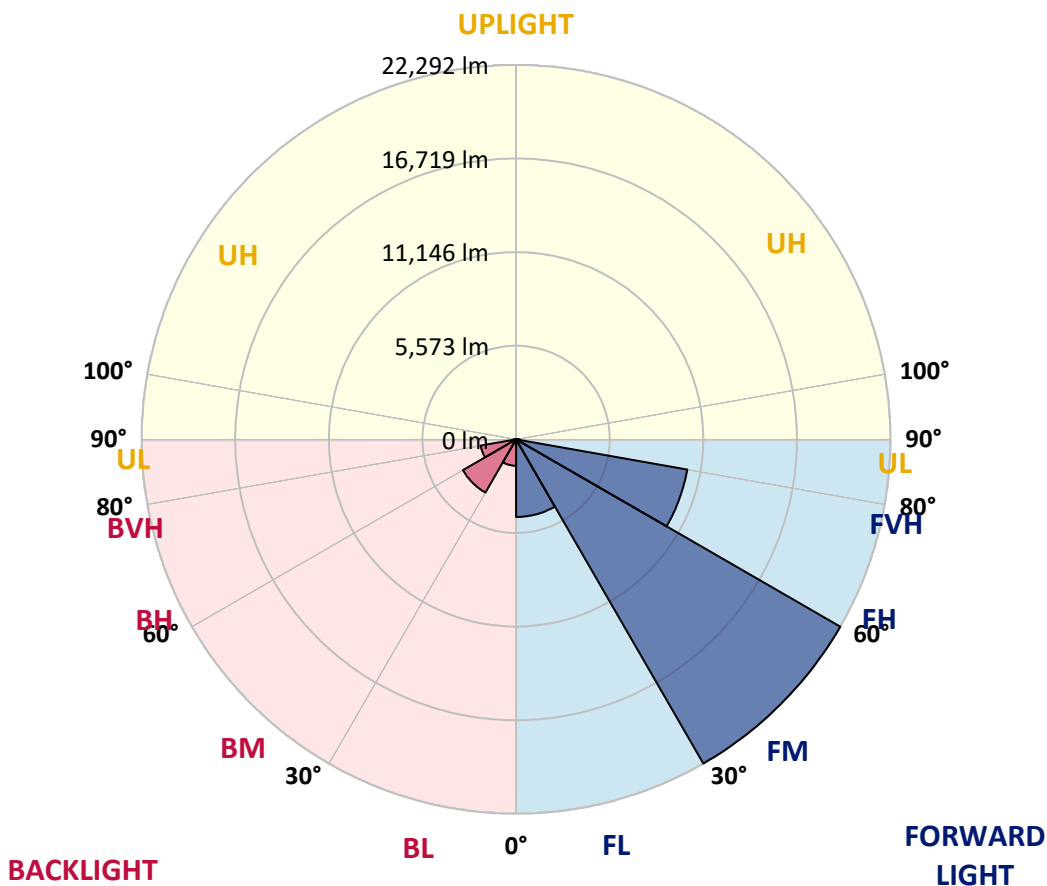
REPORT NUMBER: P643170

CATALOG NUMBER: GWS-SA6E-735-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4621.1	10.3			
FM (30°-60°)	22292.1	49.5			
FH (60°-80°)	10351.2	23.0			G4/12000
FVH (80°-90°)	230.3	0.5			G3/500
BL (0°-30°)	1574.2	3.5	B3/2500		
BM (30°-60°)	3657.0	8.1	B3/5000		
BH (60°-80°)	2138.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	155.8	0.3			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 Short





REPORT NUMBER: P643170
 CATALOG NUMBER: GWS-SA6E-735-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2
2.5°	5975.5	5997.6	5924.8	5899.5	5728.6	5497.5	5304.5	5013.3	4744.3	4703.1	4462.6
5°	7589.6	7494.6	7412.3	7358.5	7121.2	6858.5	6450.2	5902.7	5329.8	5260.2	4741.1
7.5°	8548.6	8532.7	8431.5	8399.8	8216.3	7953.6	7532.6	6852.2	6019.8	5905.8	5117.7
10°	9317.7	9308.2	9257.5	9286.0	9118.3	8861.9	8453.6	7751.0	6776.2	6662.3	5538.7
12.5°	9988.6	10004.5	9995.0	10099.4	10014.0	9814.6	9390.5	8618.2	7532.6	7409.2	6051.4
15°	10479.2	10491.9	10539.3	10767.2	10814.7	10773.5	10343.1	9469.6	8279.5	8102.3	6580.0
17.5°	10618.5	10643.8	10757.7	11124.9	11381.2	11552.1	11232.5	10336.8	9013.8	8820.8	7118.0
20°	10805.2	10833.7	10947.6	11330.6	11707.2	12096.5	12039.5	11216.6	9754.4	9596.2	7662.4
22.5°	11669.2	11647.1	11596.4	11780.0	12049.0	12533.3	12675.7	12061.7	10520.3	10368.4	8263.7
25°	13334.0	13292.9	12970.0	12802.3	12713.7	13008.0	13261.2	12830.8	11267.3	11039.4	8823.9
27.5°	15169.7	15147.5	14736.1	14337.3	13792.9	13666.3	13815.1	13501.7	11992.1	11761.0	9311.3
30°	16907.2	16840.8	16410.3	15910.3	15182.3	14638.0	14419.6	14160.1	12786.5	12545.9	9881.0
32.5°	18461.2	18375.8	17869.4	17315.5	16552.8	15910.3	15258.3	14859.5	13685.3	13406.8	10463.4
35°	19736.7	19651.3	19132.2	18543.5	17704.8	17230.1	16337.6	15619.1	14600.0	14318.3	11150.2
37.5°	20724.2	20645.1	20103.9	19524.7	18793.6	18416.9	17641.5	16473.6	15653.9	15359.6	11878.1
40°	21278.1	21221.1	20787.5	20328.6	19714.6	19388.6	19040.4	17552.9	16834.5	16540.1	12735.8
42.5°	21445.8	21407.8	21104.0	20866.6	20452.0	20205.1	20404.5	18822.1	18094.1	17837.7	13701.1
45°	21024.9	21024.9	20936.2	21056.5	21075.5	21072.3	21771.8	20255.8	19641.8	19360.1	15062.1
47.5°	19948.8	20018.4	20148.2	20740.0	21363.5	21885.7	23370.1	22167.4	21632.5	21401.5	16989.5
50°	17980.2	18170.1	18613.2	19768.4	21094.5	22423.8	24883.0	24993.7	25503.3	25095.0	19825.3
52.5°	15096.9	15068.4	16198.3	17844.1	19866.5	22445.9	25715.3	27487.7	28858.2	28576.5	21933.2
55°	11998.4	11950.9	13004.8	15274.1	17983.3	21597.7	26215.4	28630.3	30719.2	30466.0	23829.0
57.5°	9187.9	9127.8	10064.6	12112.3	15324.8	19796.9	26120.5	29991.2	33279.6	33149.8	26405.3
60°	6323.6	6250.8	7127.5	8918.9	12178.8	17043.3	25069.7	30690.7	36276.8	36321.1	29162.0
62.5°	3798.0	3756.8	4393.0	5782.4	8760.6	13631.5	22610.5	30266.6	38663.2	38862.6	30934.4
65°	2291.4	2263.0	2636.4	3449.8	5557.7	9947.5	18818.9	28098.6	39008.2	39467.1	30975.5
67.5°	1667.9	1671.1	1778.7	2101.5	3240.9	6424.9	14122.1	24212.0	37210.5	37685.2	29022.7
70°	1449.6	1455.9	1512.9	1585.6	1959.1	3677.7	9181.6	19113.2	31896.5	32263.7	24341.8
72.5°	1288.1	1288.1	1326.1	1364.1	1531.8	2240.8	4918.4	13359.3	25174.1	25272.3	18578.3
75°	1133.1	1123.6	1142.6	1161.5	1329.3	1566.7	2392.7	9308.2	18594.2	18366.3	12007.9
77.5°	902.0	892.5	895.7	914.7	1066.6	1120.4	1212.2	5814.0	10479.2	9890.5	5304.5
80°	642.5	636.2	671.0	718.4	788.1	686.8	759.6	2813.7	4155.6	3867.6	2057.2
82.5°	383.0	395.6	449.4	487.4	544.4	430.4	490.6	940.0	1471.7	1433.7	835.6
85°	53.8	57.0	161.4	186.7	234.2	167.7	259.5	424.1	588.7	629.8	294.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	22.2	76.0	167.7	170.9	72.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643170
 CATALOG NUMBER: GWS-SA6E-735-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2	4263.2
2.5°	4339.2	4190.4	3978.4	3801.1	3652.4	3532.1	3430.8	3354.9	3332.7	3301.1	3301.1
5°	4497.4	4228.4	3848.6	3579.6	3424.5	3332.7	3269.4	3237.8	3221.9	3202.9	3193.5
7.5°	4715.8	4339.2	3826.4	3554.3	3434.0	3377.0	3335.9	3316.9	3304.2	3285.2	3285.2
10°	5016.5	4503.7	3896.1	3642.9	3547.9	3491.0	3443.5	3411.8	3383.3	3354.9	3348.5
12.5°	5342.5	4719.0	4022.7	3763.1	3661.9	3592.2	3525.8	3478.3	3443.5	3408.7	3399.2
15°	5703.3	4940.5	4158.8	3880.2	3753.6	3658.7	3579.6	3506.8	3459.3	3408.7	3402.3
17.5°	6057.7	5165.2	4272.7	3959.4	3798.0	3680.9	3566.9	3472.0	3411.8	3354.9	3339.0
20°	6481.8	5389.9	4351.8	3981.5	3788.5	3633.4	3497.3	3377.0	3310.6	3244.1	3234.6
22.5°	6871.1	5598.8	4389.8	3949.9	3715.7	3532.1	3373.9	3244.1	3171.3	3104.8	3092.2
25°	7247.8	5782.4	4374.0	3873.9	3604.9	3392.8	3228.3	3098.5	3028.9	2959.2	2940.3
27.5°	7611.7	5905.8	4310.7	3756.8	3465.6	3237.8	3079.5	2962.4	2902.3	2842.1	2816.8
30°	7969.4	6019.8	4212.6	3604.9	3288.4	3076.3	2946.6	2864.3	2804.2	2740.9	2721.9
32.5°	8330.2	6102.1	4063.8	3427.7	3108.0	2933.9	2854.8	2794.7	2731.4	2668.1	2649.1
35°	8694.2	6136.9	3883.4	3225.1	2956.1	2842.1	2813.7	2744.0	2658.6	2582.6	2557.3
37.5°	9127.8	6168.5	3658.7	3025.7	2823.1	2797.8	2791.5	2687.1	2585.8	2481.3	2452.8
40°	9650.0	6209.7	3427.7	2845.3	2715.5	2782.0	2756.7	2614.3	2411.7	2310.4	2278.8
42.5°	10289.3	6285.6	3187.1	2680.7	2636.4	2721.9	2693.4	2437.0	2300.9	2244.0	2228.1
45°	11229.3	6564.1	2946.6	2551.0	2576.3	2636.4	2592.1	2332.6	2278.8	2240.8	2221.8
47.5°	12903.6	6991.4	2737.7	2452.8	2528.8	2560.5	2389.5	2304.1	2263.0	2212.3	2190.2
50°	14644.3	7178.1	2570.0	2392.7	2475.0	2490.8	2278.8	2266.1	2237.6	2183.8	2161.7
52.5°	15821.7	7152.8	2468.7	2370.6	2430.7	2370.6	2228.1	2225.0	2206.0	2142.7	2117.4
55°	17150.9	7197.1	2424.4	2376.9	2411.7	2168.0	2164.8	2174.3	2164.8	2095.2	2082.5
57.5°	18945.5	7333.2	2402.2	2399.0	2399.0	2069.9	2104.7	2117.4	2098.4	2066.7	2057.2
60°	20670.4	7342.7	2361.1	2424.4	2389.5	2009.8	2035.1	2047.7	2025.6	2019.2	2016.1
62.5°	21319.2	6887.0	2269.3	2405.4	2351.6	1943.3	1962.3	1968.6	1946.5	1962.3	1959.1
65°	20353.9	5918.5	2117.4	2313.6	2234.5	1883.2	1870.5	1886.3	1848.3	1889.5	1892.6
67.5°	18072.0	4703.1	1886.3	2139.5	2069.9	1816.7	1791.4	1791.4	1728.1	1791.4	1788.2
70°	14571.5	3323.2	1547.7	1861.0	1889.5	1737.6	1724.9	1652.1	1550.8	1645.8	1636.3
72.5°	11045.7	2386.4	1218.5	1471.7	1626.8	1626.8	1630.0	1506.5	1389.4	1433.7	1395.7
75°	6997.7	1680.6	974.8	1126.7	1275.5	1427.4	1500.2	1272.3	1167.9	1148.9	1129.9
77.5°	3152.3	1104.6	759.6	864.0	905.2	1126.7	1370.4	1095.1	952.7	911.5	898.9
80°	1319.8	686.8	541.2	610.8	557.0	946.3	1209.0	851.4	699.5	642.5	601.3
82.5°	579.2	408.3	345.0	329.2	348.1	702.6	902.0	566.5	436.8	591.8	598.2
85°	243.7	215.2	177.2	161.4	142.4	269.0	424.1	221.5	272.2	155.1	126.6
87.5°	57.0	63.3	47.5	31.6	19.0	3.2	0.0	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)