

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: P640674

Luminaire Tested: GWS-SA5E-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31007.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

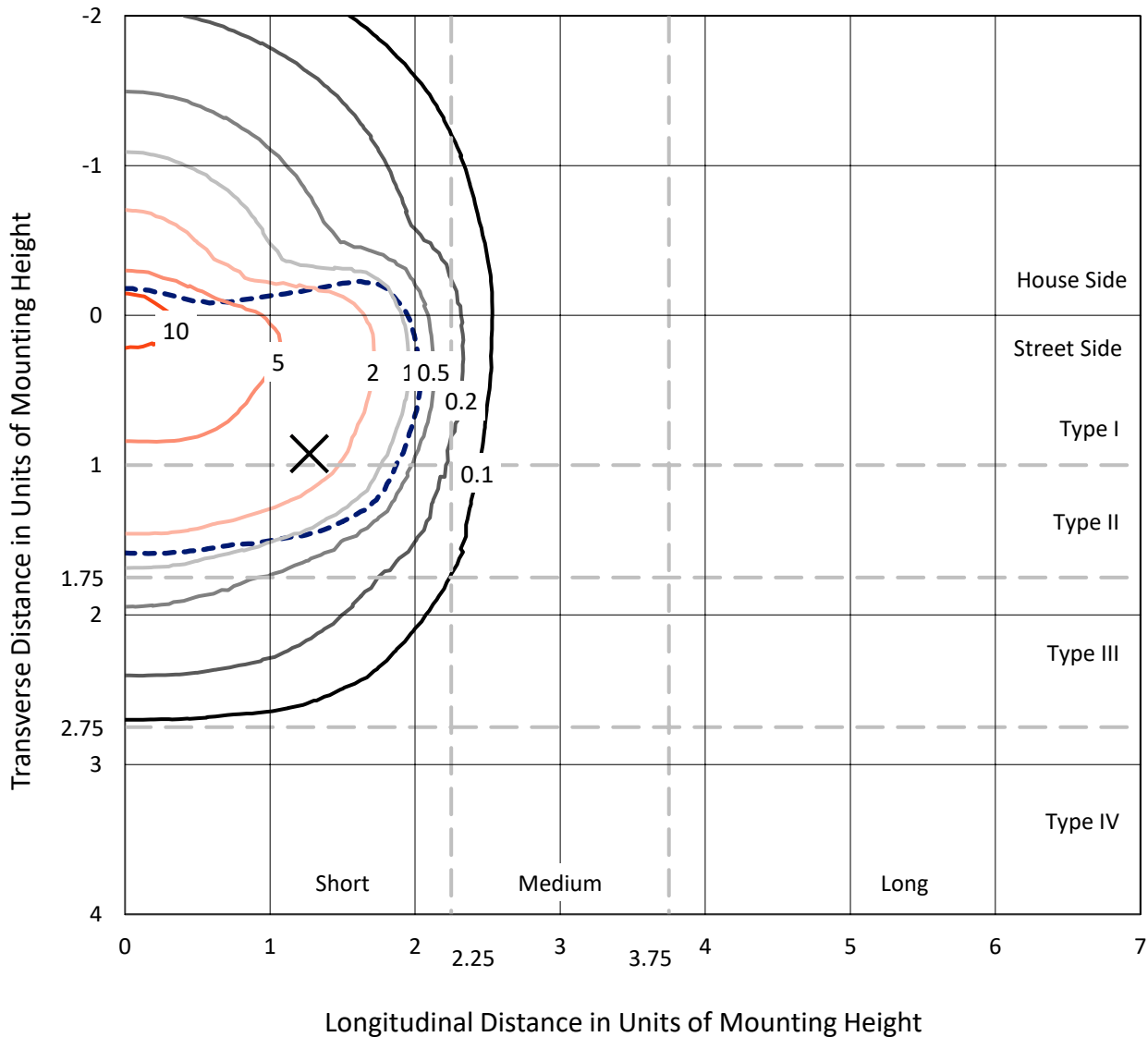
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640674
 CATALOG NUMBER: GWS-SA5E-735-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

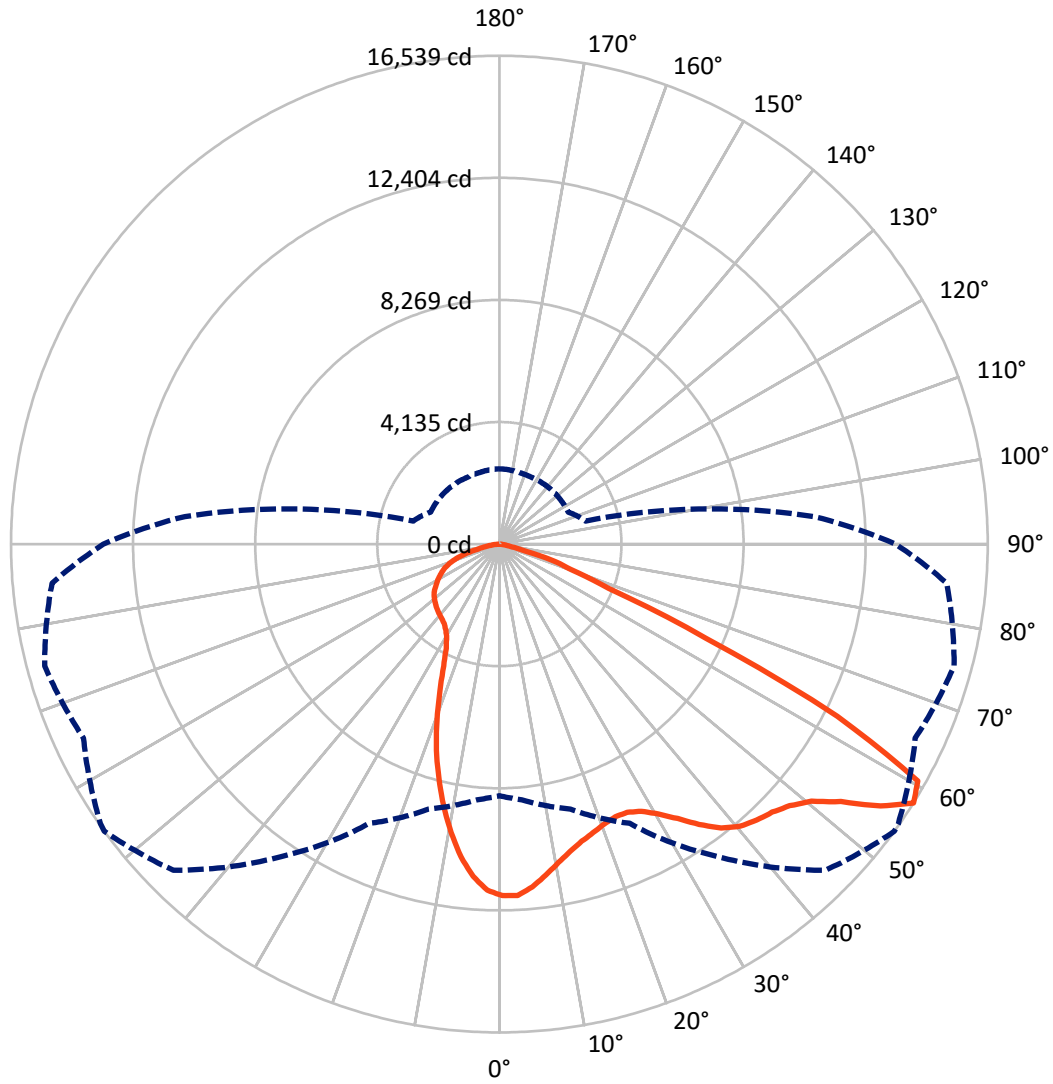
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

REPORT NUMBER: P640674
CATALOG NUMBER: GWS-SA5E-735-U-SL3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640674

CATALOG NUMBER: GWS-SA5E-735-U-SL3-W-GRSWH

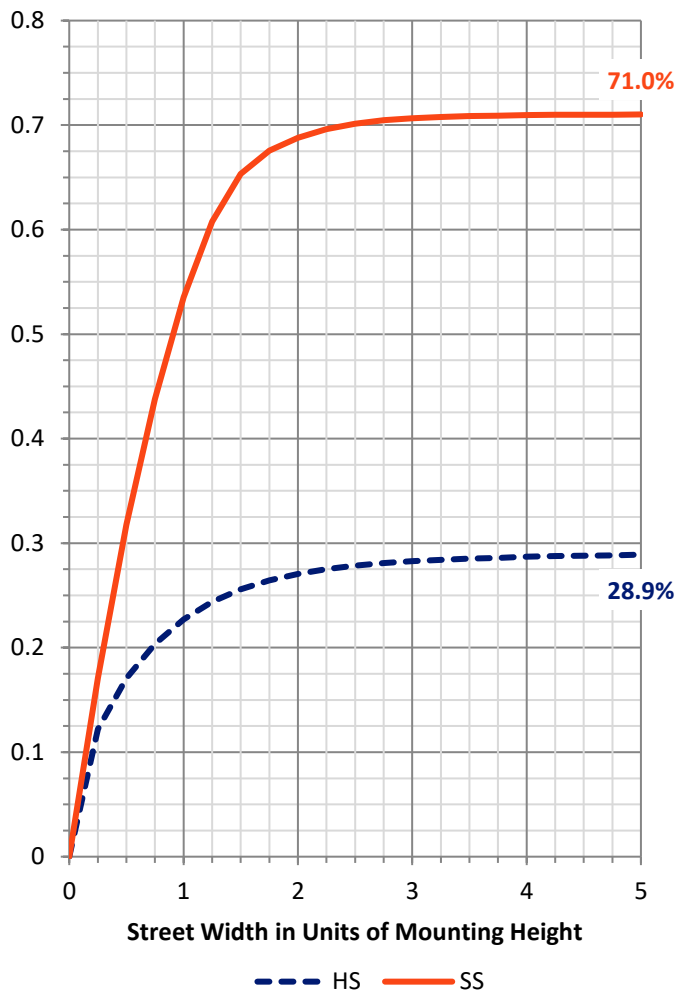
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9014.2	0.0	9014.2
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	21993.3	0.0	21993.3
	% Fixture	70.9	0.0	70.9
Total	Lumens	31007.5	0.0	31007.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1046.4	3.4
10°-20°	2496.8	8.1
20°-30°	3455.2	11.1
30°-40°	4801.0	15.5
40°-50°	6340.7	20.4
50°-60°	7535.0	24.3
60°-70°	4174.5	13.5
70°-80°	1039.5	3.4
80°-90°	118.2	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°	31007.5	100.0
0°-180°	31007.5	100.0

Coefficient of Utilization



REPORT NUMBER: P640674

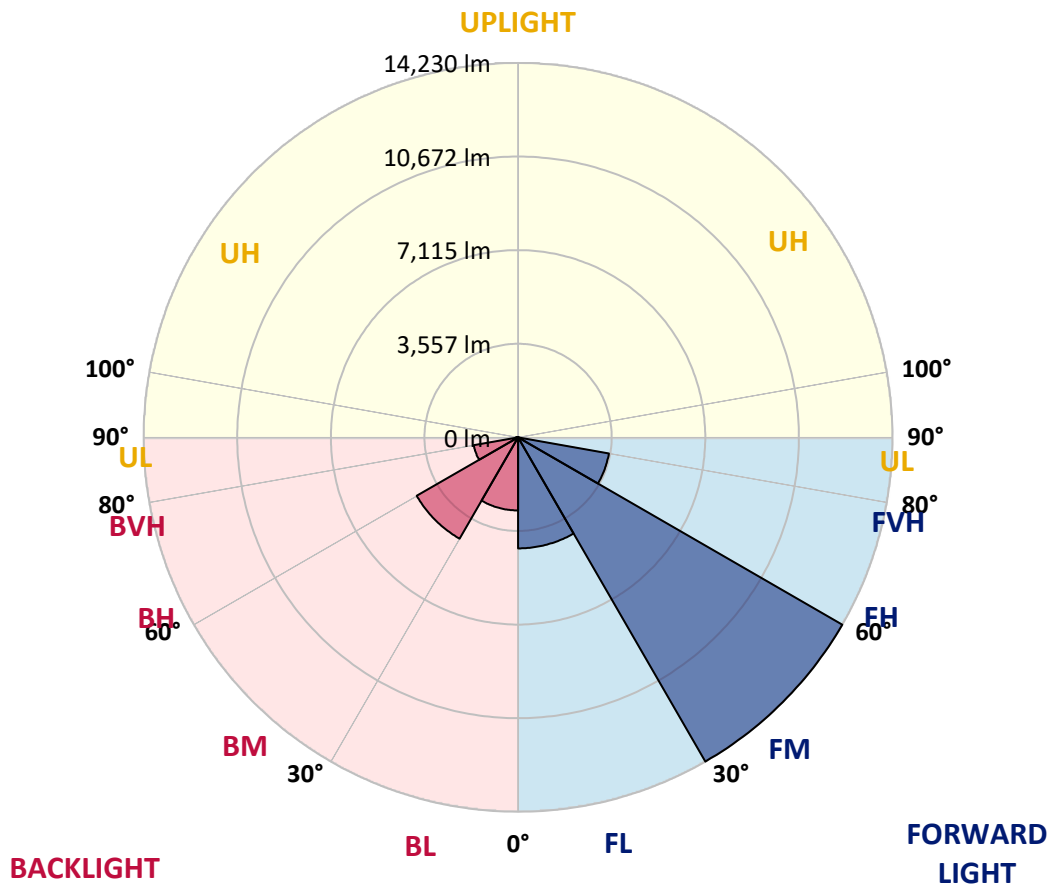
CATALOG NUMBER: GWS-SA5E-735-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4220.6	13.6			
FM (30°-60°)	14229.8	45.9			
FH (60°-80°)	3505.8	11.3			G2/5000
FVH (80°-90°)	37.0	0.1			G1/100
BL (0°-30°)	2777.8	9.0	B4/5000		
BM (30°-60°)	4446.9	14.3	B3/5000		
BH (60°-80°)	1708.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	81.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P640674

CATALOG NUMBER: GWS-SA5E-735-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5
2.5°	11681.5	11705.4	11721.3	11777.1	11824.9	11867.3	11912.4	11912.4	11909.8	11901.8	11885.9
5°	11219.7	11246.2	11283.4	11360.4	11463.9	11538.2	11660.3	11670.9	11724.0	11745.2	11734.6
7.5°	10683.5	10691.5	10739.3	10840.1	11004.7	11137.4	11312.6	11333.8	11461.2	11535.5	11522.3
10°	10096.9	10070.4	10155.3	10303.9	10518.9	10741.9	10967.5	10986.1	11190.5	11331.2	11320.5
12.5°	9560.7	9563.4	9648.3	9828.8	10096.9	10373.0	10675.5	10718.0	10970.2	11150.7	11132.1
15°	9112.2	9122.8	9226.3	9430.7	9735.9	10065.1	10442.0	10481.8	10800.3	11039.2	10986.1
17.5°	8753.8	8764.5	8854.7	9088.3	9414.8	9812.9	10272.1	10311.9	10707.4	10991.4	10882.6
20°	8507.0	8501.7	8589.3	8812.2	9149.3	9582.0	10123.5	10181.9	10678.2	11010.0	10813.6
22.5°	8406.1	8403.5	8467.2	8650.3	8966.2	9404.1	10033.2	10112.8	10710.1	11092.3	10771.1
25°	8456.6	8445.9	8501.7	8637.1	8889.2	9335.1	10059.8	10144.7	10845.4	11262.1	10779.1
27.5°	8613.2	8599.9	8647.7	8769.8	8960.9	9406.8	10245.6	10343.8	11132.1	11572.7	10885.2
30°	8852.1	8844.1	8891.9	9008.7	9175.9	9645.7	10601.2	10712.7	11575.4	12055.8	11116.2
32.5°	9130.8	9117.5	9202.4	9337.8	9531.5	10081.0	11079.0	11225.0	12100.9	12676.9	11503.7
35°	9444.0	9433.3	9550.1	9746.5	10025.2	10686.2	11657.6	11816.9	12637.1	13380.3	12018.6
37.5°	9749.2	9749.2	9974.8	10266.8	10617.2	11344.4	12201.8	12302.6	13008.7	14004.0	12570.7
40°	10019.9	10035.9	10375.6	10813.6	11259.5	11939.0	12560.1	12645.0	13173.2	14434.0	13051.1
42.5°	10319.9	10333.1	10728.6	11302.0	11832.8	12419.4	12777.7	12820.2	13205.1	14649.0	13390.9
45°	10558.8	10577.3	11068.4	11681.5	12331.8	12780.4	12950.3	12987.4	13250.2	14765.8	13637.7
47.5°	10683.5	10710.1	11272.8	11986.8	12668.9	13104.2	13234.3	13250.2	13436.0	14970.2	13935.0
50°	10662.3	10715.4	11349.7	12138.1	12918.4	13430.7	13690.8	13717.4	13815.6	15270.1	14282.7
52.5°	10850.7	10874.6	11514.3	12318.6	13274.1	14033.2	14484.5	14521.6	14476.5	15495.7	14489.8
55°	10537.5	10651.7	11309.9	12292.0	13815.6	14964.9	15660.3	15641.7	15076.4	15747.9	14834.8
57.5°	8522.9	8690.1	9292.7	10434.0	12923.7	15617.8	16538.9	16493.7	15540.9	15941.7	15209.1
60°	5900.5	5927.0	6471.2	7280.7	9974.8	13797.0	16281.4	16379.6	15625.8	15697.5	14516.3
62.5°	4719.3	4711.4	4761.8	4783.0	6343.7	9698.8	12852.1	13210.4	12982.1	12231.0	10288.0
65°	4029.2	4058.4	4207.0	4130.1	4140.7	5462.5	7678.9	7729.3	7570.0	7299.3	5441.3
67.5°	3153.3	3203.7	3466.5	3766.4	3670.9	3516.9	3984.1	3960.2	3121.4	2415.4	1996.0
70°	1974.8	2006.6	2288.0	2956.9	3195.8	2887.9	2561.4	2550.8	1672.2	1374.9	1507.6
72.5°	1152.0	1157.3	1236.9	1648.3	2120.8	1974.8	1884.5	1815.5	1075.0	1096.2	1202.4
75°	634.4	634.4	631.7	711.3	836.1	740.5	716.7	698.1	719.3	814.9	894.5
77.5°	132.7	135.4	143.3	188.5	244.2	297.3	374.3	376.9	469.8	544.1	607.8
80°	61.0	63.7	79.6	100.9	130.1	172.5	228.3	230.9	284.0	342.4	384.9
82.5°	31.9	34.5	42.5	53.1	69.0	90.2	127.4	127.4	169.9	201.7	228.3
85°	10.6	10.6	15.9	21.2	29.2	37.2	50.4	50.4	74.3	98.2	114.1
87.5°	0.0	0.0	0.0	0.0	2.7	5.3	10.6	10.6	13.3	15.9	26.5
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: P640674

CATALOG NUMBER: GWS-SA5E-735-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5	11904.5
2.5°	11851.4	11769.1	11771.8	11787.7	11737.3	11660.3	11609.9	11546.2	11506.3	11498.4	11527.6
5°	11681.5	11586.0	11519.6	11450.6	11307.3	11137.4	11004.7	10895.9	10824.2	10797.6	10765.8
7.5°	11447.9	11323.2	11156.0	10962.2	10702.1	10399.5	10187.2	9988.1	9850.1	9810.2	9791.7
10°	11214.4	11033.9	10736.6	10375.6	9943.0	9534.2	9149.3	8854.7	8621.1	8488.4	8530.9
12.5°	10972.8	10749.9	10285.4	9730.6	9128.1	8512.3	8008.0	7519.6	7142.7	6954.2	6898.5
15°	10760.5	10457.9	9810.2	9059.1	8257.5	7482.4	6752.5	6019.9	5542.2	5282.0	5210.4
17.5°	10580.0	10187.2	9308.6	8374.3	7416.1	6311.9	5414.7	4735.3	4408.8	4265.4	4254.8
20°	10402.2	9921.7	8812.2	7636.4	6444.6	5207.7	4406.1	4087.6	3970.8	3920.4	3917.7
22.5°	10242.9	9643.0	8289.3	6898.5	5478.5	4376.9	3936.3	3798.3	3766.4	3766.4	3761.1
25°	10107.5	9364.3	7753.2	6115.5	4605.2	3896.5	3692.1	3633.7	3647.0	3670.9	3673.5
27.5°	10051.8	9146.7	7235.6	5311.2	4002.7	3617.8	3524.9	3516.9	3554.1	3591.3	3596.6
30°	10110.2	8998.0	6704.7	4541.5	3641.7	3447.9	3405.5	3421.4	3466.5	3503.7	3503.7
32.5°	10290.7	8923.7	6163.3	3978.8	3432.0	3328.5	3315.2	3331.1	3365.6	3386.9	3389.5
35°	10595.9	8952.9	5603.2	3599.2	3296.6	3240.9	3238.2	3248.8	3262.1	3275.4	3278.0
37.5°	10980.8	9083.0	5003.3	3378.9	3209.0	3177.2	3171.9	3169.2	3171.9	3171.9	3174.5
40°	11357.7	9279.4	4467.2	3248.8	3148.0	3121.4	3108.2	3089.6	3086.9	3081.6	3079.0
42.5°	11636.4	9430.7	4039.8	3155.9	3092.2	3060.4	3044.5	3015.3	3012.6	3010.0	3007.3
45°	11846.1	9558.1	3684.2	3065.7	3033.9	3004.7	2970.1	2943.6	2948.9	2954.2	2954.2
47.5°	12082.3	9669.6	3424.0	2980.8	2962.2	2933.0	2890.5	2871.9	2890.5	2909.1	2909.1
50°	12369.0	9826.2	3211.7	2895.8	2887.9	2853.4	2816.2	2808.2	2829.5	2856.0	2856.0
52.5°	12578.7	9961.5	3060.4	2810.9	2810.9	2765.8	2733.9	2731.3	2755.2	2781.7	2784.3
55°	12971.5	10277.4	3007.3	2712.7	2702.1	2667.6	2643.7	2625.1	2654.3	2678.2	2678.2
57.5°	13414.8	10696.8	3020.6	2572.0	2558.7	2548.1	2529.5	2508.3	2516.3	2542.8	2545.5
60°	12475.2	9884.6	2874.6	2431.3	2423.4	2418.1	2394.2	2357.0	2367.6	2388.9	2391.5
62.5°	8714.0	6569.4	2325.2	2256.1	2282.7	2280.0	2248.2	2205.7	2208.4	2237.6	2237.6
65°	4522.9	3554.1	2041.1	2096.9	2136.7	2120.8	2067.7	2030.5	2025.2	2062.4	2054.4
67.5°	1950.9	1940.3	1858.0	1929.7	1972.1	1937.6	1881.9	1820.8	1826.2	1839.4	1828.8
70°	1571.3	1619.1	1653.6	1730.6	1765.1	1701.4	1640.4	1605.8	1576.6	1574.0	1555.4
72.5°	1255.5	1321.8	1398.8	1478.4	1489.1	1425.4	1348.4	1316.5	1271.4	1268.7	1250.2
75°	944.9	1000.7	1061.7	1125.4	1125.4	1064.4	1013.9	998.0	944.9	929.0	913.1
77.5°	645.0	679.5	727.3	743.2	759.1	735.2	684.8	658.3	597.2	581.3	560.1
80°	406.1	430.0	459.2	469.8	485.7	456.5	416.7	387.5	345.1	331.8	321.2
82.5°	244.2	260.1	278.7	284.0	297.3	276.0	238.9	217.7	193.8	183.1	175.2
85°	124.8	132.7	143.3	146.0	143.3	122.1	108.8	98.2	82.3	79.6	74.3
87.5°	31.9	37.2	39.8	37.2	34.5	26.5	18.6	13.3	5.3	5.3	2.7
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)