

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: P641322

Luminaire Tested: GWS-SA5F-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31714.7 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

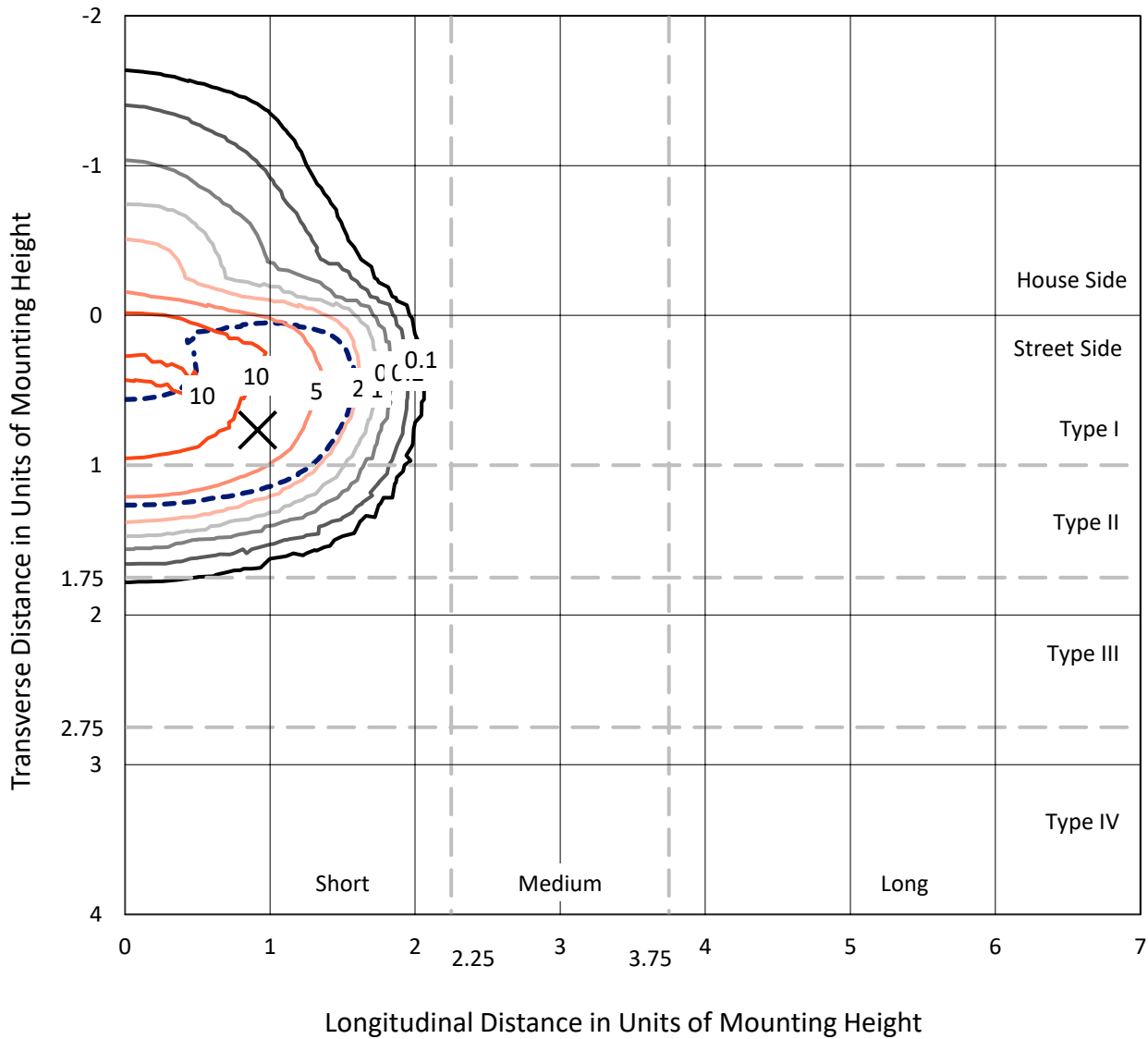
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

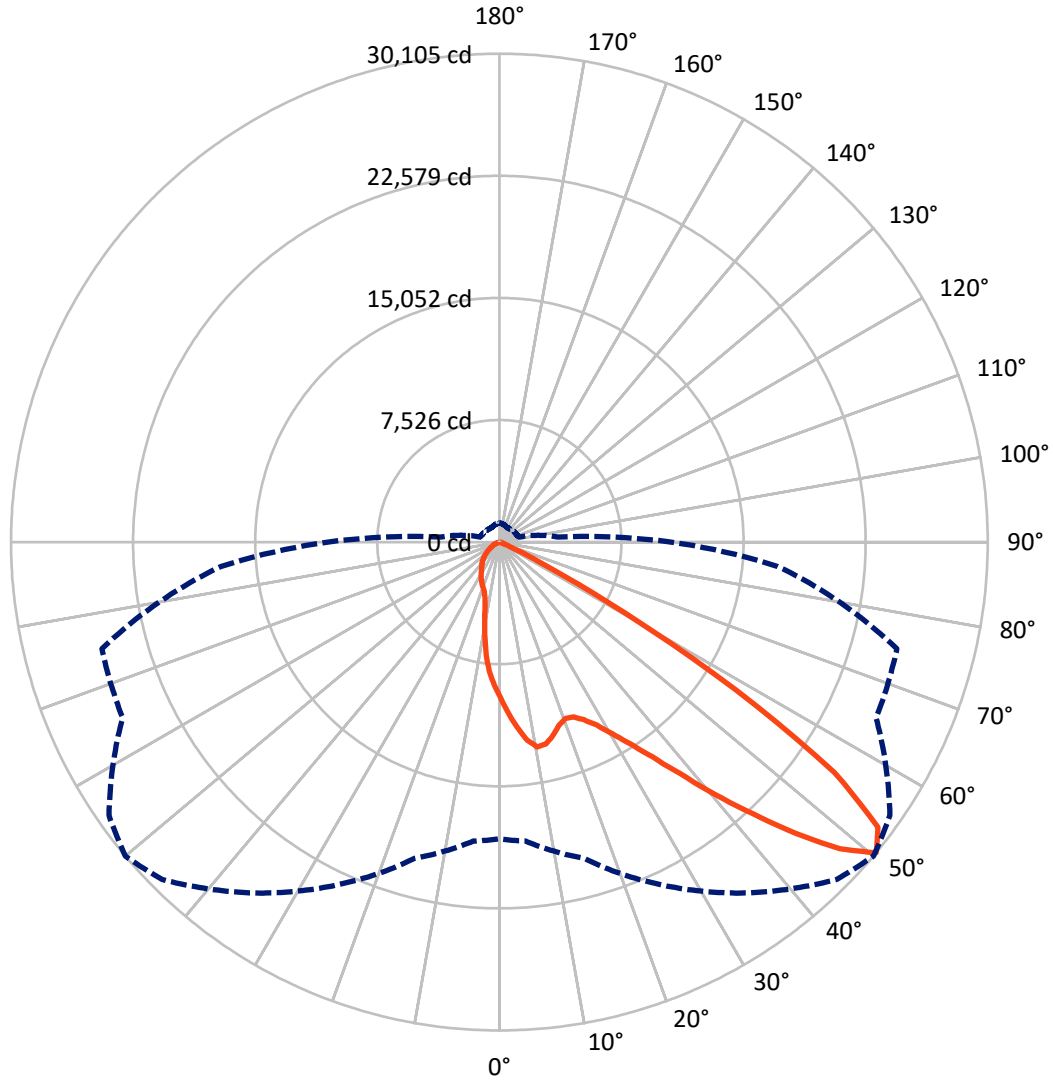
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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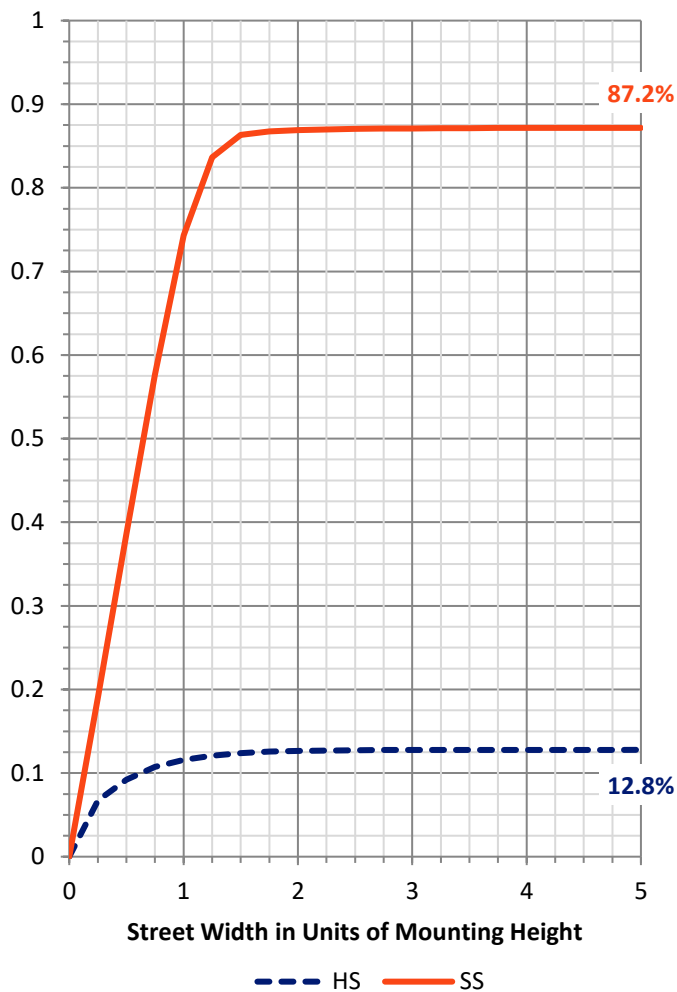
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4074.8	0.0	4074.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	27639.9	0.0	27639.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	31714.7	0.0	31714.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.3	2.8
10°-20°	2299.7	7.3
20°-30°	3795.3	12.0
30°-40°	6263.0	19.7
40°-50°	9909.5	31.2
50°-60°	7502.6	23.7
60°-70°	939.0	3.0
70°-80°	106.2	0.3
80°-90°	8.1	0.0
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°	31714.7	100.0
0°-180°	31714.7	100.0

Coefficient of Utilization



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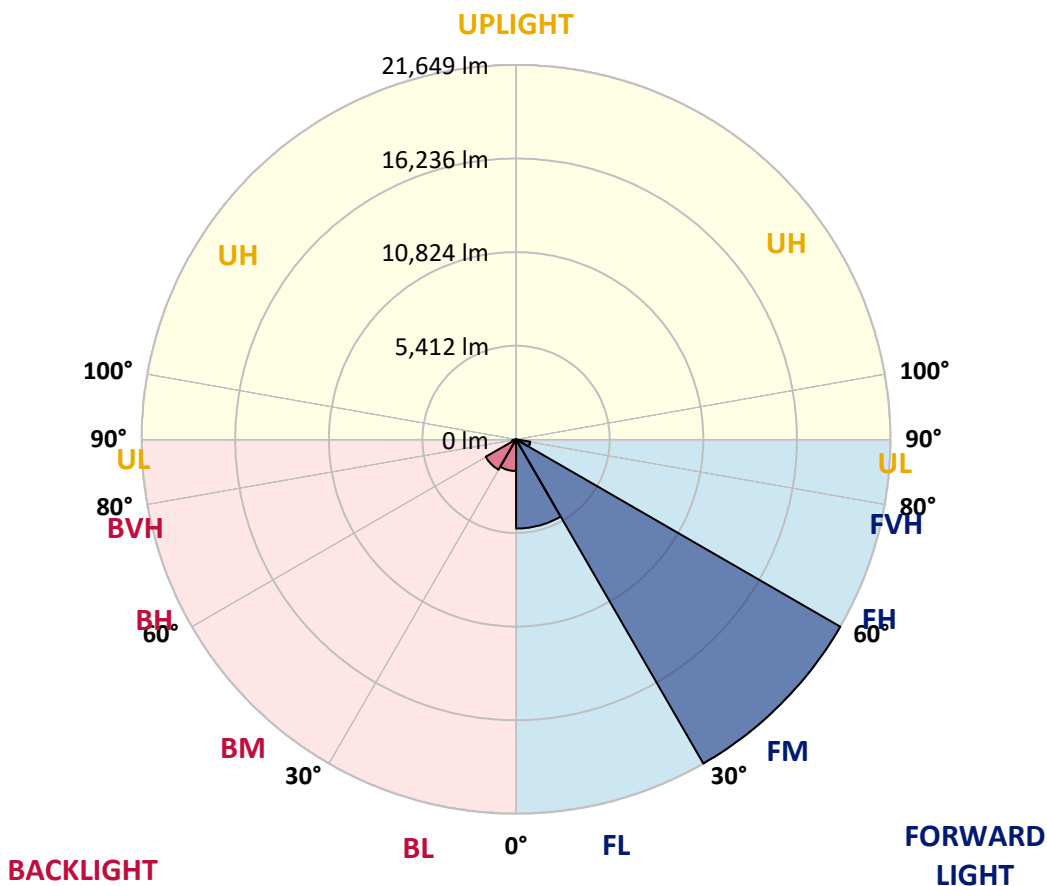
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5157.3	16.3			
FM (30°-60°)	21648.6	68.3			
FH (60°-80°)	830.2	2.6			G1/1800
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	1829.0	5.8	B3/2500		
BM (30°-60°)	2026.5	6.4	B2/2500		
BH (60°-80°)	215.0	0.7	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3
2.5°	10948.6	11036.1	11012.0	10897.2	10773.5	10685.9	10550.1	10507.8	10199.9	9985.6	9759.2
5°	12270.7	12297.9	12267.7	12128.8	11911.5	11703.2	11479.8	11350.0	10833.9	10369.0	9895.1
7.5°	12587.7	12554.5	12611.8	12681.3	12651.1	12560.5	12325.1	12183.2	11567.4	10809.7	10091.3
10°	11597.6	11522.1	11736.4	12095.6	12473.0	12898.6	12838.2	12850.3	12282.8	11365.1	10347.9
12.5°	10284.5	10254.3	10414.3	10830.8	11570.4	12536.4	12768.8	13158.2	12937.8	11965.8	10640.7
15°	9707.9	9723.0	9819.6	10082.2	10613.5	11814.9	12373.4	13076.7	13523.5	12548.4	10963.7
17.5°	9795.4	9849.8	9846.8	9934.3	10257.3	11220.2	11872.3	12820.1	13976.2	13218.6	11334.9
20°	10390.1	10444.5	10363.0	10296.5	10405.2	11069.3	11609.6	12560.5	14281.1	13894.7	11727.4
22.5°	11280.6	11344.0	11150.8	10960.6	10891.2	11316.8	11709.3	12454.9	14513.6	14513.6	12077.5
25°	12358.3	12445.8	12147.0	11808.9	11615.7	11839.1	12134.9	12693.3	14752.0	15069.0	12316.0
27.5°	13562.7	13565.7	13309.1	12928.8	12566.5	12593.7	12771.8	13230.6	15014.7	15666.7	12503.2
30°	14918.1	14927.1	14586.0	14130.2	13674.4	13550.6	13701.6	14048.7	15561.0	16418.3	12762.8
32.5°	16668.9	16711.1	16222.1	15552.0	14960.3	14727.9	14815.4	15180.7	16430.4	17360.1	13152.2
35°	19035.5	19080.7	18359.3	17474.8	16533.0	16182.9	16270.4	16638.7	17689.2	18697.4	13774.0
37.5°	21371.9	21432.3	20701.8	19877.7	18585.7	18006.1	18096.7	18446.8	19578.8	20544.8	14770.1
40°	22986.9	23068.4	22842.0	22286.5	21088.1	20327.4	20436.1	20562.9	21658.7	22754.4	16062.1
42.5°	23838.1	23952.8	24049.4	24333.2	23702.3	23065.3	22881.2	22890.3	23774.7	25006.3	17405.4
45°	23889.4	24001.1	24496.2	25591.9	26071.9	25939.1	25604.0	25377.6	25389.7	26506.6	18244.6
47.5°	22229.2	22437.5	23364.2	25510.4	27315.6	28417.4	28248.3	27711.0	26068.9	26606.2	18154.0
50°	18295.9	18501.2	20185.6	23273.6	26410.0	29407.5	30104.8	29383.3	25625.1	25365.5	17221.3
52.5°	13288.0	13309.1	14401.9	18009.1	22739.3	27581.2	29223.3	29153.9	24949.0	23862.3	15947.4
55°	6312.0	6236.5	7465.1	10163.7	15727.1	22307.7	25075.7	25860.6	23989.0	22775.5	14960.3
57.5°	1838.3	1874.6	2420.9	3966.5	7866.5	14257.0	17173.0	18634.0	19690.5	18724.6	11603.6
60°	824.1	827.1	920.7	1207.5	2620.2	6631.9	8877.8	10685.9	11772.6	10909.3	5756.5
62.5°	597.7	600.7	636.9	682.2	890.5	2245.9	3329.5	4437.4	4518.9	2958.3	1458.0
65°	498.1	498.1	504.1	504.1	534.3	803.0	1011.2	1304.0	1098.8	815.0	570.5
67.5°	401.5	404.5	410.5	410.5	401.5	401.5	434.7	476.9	510.1	630.9	525.2
70°	313.9	310.9	310.9	313.9	304.9	259.6	280.7	320.0	350.2	492.0	455.8
72.5°	244.5	247.5	244.5	232.4	211.3	154.0	166.0	208.3	223.4	307.9	307.9
75°	184.1	187.2	175.1	132.8	87.5	48.3	63.4	102.6	129.8	150.9	111.7
77.5°	24.1	24.1	18.1	18.1	15.1	18.1	18.1	24.1	36.2	36.2	27.2
80°	3.0	3.0	3.0	6.0	9.1	12.1	12.1	12.1	12.1	15.1	15.1
82.5°	3.0	3.0	3.0	3.0	9.1	9.1	12.1	12.1	12.1	12.1	12.1
85°	0.0	0.0	0.0	3.0	6.0	9.1	9.1	12.1	12.1	12.1	12.1
87.5°	0.0	0.0	0.0	3.0	6.0	9.1	9.1	9.1	12.1	12.1	12.1
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°	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3	9608.3
2.5°	9623.4	9448.3	9237.0	9092.1	8886.8	8751.0	8557.8	8428.0	8316.3	8228.8	8277.1
5°	9626.4	9348.7	8917.0	8548.8	8147.3	7779.0	7383.6	7072.6	6791.9	6665.1	6734.6
7.5°	9686.8	9288.3	8627.2	7972.2	7202.4	6441.8	5729.4	5149.8	4863.0	4727.2	4769.4
10°	9804.5	9261.2	8304.2	7217.5	5967.8	4929.4	4238.2	3845.7	3685.7	3601.2	3616.3
12.5°	9913.2	9243.0	7884.7	6224.4	4709.1	3824.6	3465.4	3411.0	3444.3	3447.3	3444.3
15°	10061.1	9209.8	7365.5	5204.1	3767.2	3305.4	3314.5	3392.9	3471.4	3495.6	3489.5
17.5°	10218.1	9158.5	6695.3	4226.1	3196.7	3154.5	3260.1	3365.8	3444.3	3456.3	3459.3
20°	10381.1	9052.9	5931.6	3450.3	2931.1	3039.8	3157.5	3236.0	3293.3	3311.4	3317.5
22.5°	10456.5	8829.5	5050.2	2894.9	2753.0	2897.9	2985.4	3088.1	3106.2	3039.8	3051.8
25°	10417.3	8452.2	4189.9	2520.6	2574.9	2719.8	2849.6	2798.3	2722.8	2674.5	2689.6
27.5°	10293.5	7951.1	3347.7	2245.9	2384.7	2568.9	2583.9	2526.6	2514.5	2475.3	2487.3
30°	10160.7	7374.5	2692.6	2025.5	2191.5	2384.7	2339.4	2360.6	2363.6	2318.3	2333.4
32.5°	10079.2	6770.8	2143.2	1877.6	2067.8	2104.0	2194.5	2236.8	2239.8	2134.2	2152.3
35°	10106.4	6176.1	1814.2	1756.8	1953.1	1944.0	2070.8	2094.9	1919.8	1775.0	1790.0
37.5°	10326.7	5626.7	1627.0	1663.3	1753.8	1823.3	1919.8	1759.9	1720.6	1654.2	1663.3
40°	10737.3	5158.8	1515.4	1605.9	1618.0	1729.7	1581.8	1602.9	1605.9	1563.6	1572.7
42.5°	11217.2	4769.4	1448.9	1572.7	1542.5	1560.6	1412.7	1455.0	1500.3	1482.1	1485.2
45°	11458.7	4389.1	1391.6	1458.0	1467.1	1295.0	1261.8	1307.1	1364.4	1373.5	1376.5
47.5°	11244.4	4026.8	1331.2	1292.0	1352.3	1180.3	1141.0	1156.1	1222.5	1258.8	1264.8
50°	10589.3	3610.3	1240.7	1144.1	1110.9	1059.5	1023.3	1026.3	1101.8	1165.2	1177.3
52.5°	9668.7	3175.6	1092.7	969.0	893.5	932.8	941.8	923.7	993.1	1056.5	1068.6
55°	8775.2	2632.2	866.3	787.9	718.4	803.0	827.1	803.0	824.1	866.3	869.4
57.5°	6179.1	1488.2	664.1	652.0	594.7	688.2	727.5	691.3	655.0	682.2	688.2
60°	2864.7	778.8	510.1	510.1	495.1	591.7	658.1	606.7	537.3	549.4	558.4
62.5°	896.5	492.0	374.3	353.2	404.5	504.1	558.4	507.1	425.6	425.6	437.7
65°	507.1	422.6	295.8	271.7	329.0	404.5	437.7	383.4	310.9	304.9	304.9
67.5°	470.9	401.5	262.6	220.4	232.4	259.6	271.7	235.5	214.3	211.3	214.3
70°	389.4	335.1	211.3	150.9	141.9	138.9	144.9	135.8	129.8	132.8	141.9
72.5°	241.5	202.2	132.8	90.6	78.5	75.5	75.5	75.5	72.4	72.4	72.4
75°	87.5	75.5	60.4	45.3	39.2	36.2	36.2	39.2	36.2	33.2	30.2
77.5°	27.2	24.1	24.1	24.1	21.1	18.1	15.1	15.1	12.1	9.1	9.1
80°	15.1	15.1	15.1	15.1	12.1	12.1	9.1	6.0	3.0	3.0	0.0
82.5°	15.1	15.1	15.1	12.1	12.1	12.1	9.1	6.0	3.0	0.0	0.0
85°	12.1	12.1	12.1	12.1	12.1	12.1	9.1	6.0	3.0	0.0	0.0
87.5°	12.1	12.1	12.1	12.1	12.1	12.1	9.1	6.0	3.0	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)