

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: P643665

Luminaire Tested: GWS-SA6F-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643665
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-SA6F-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: 50053.9 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

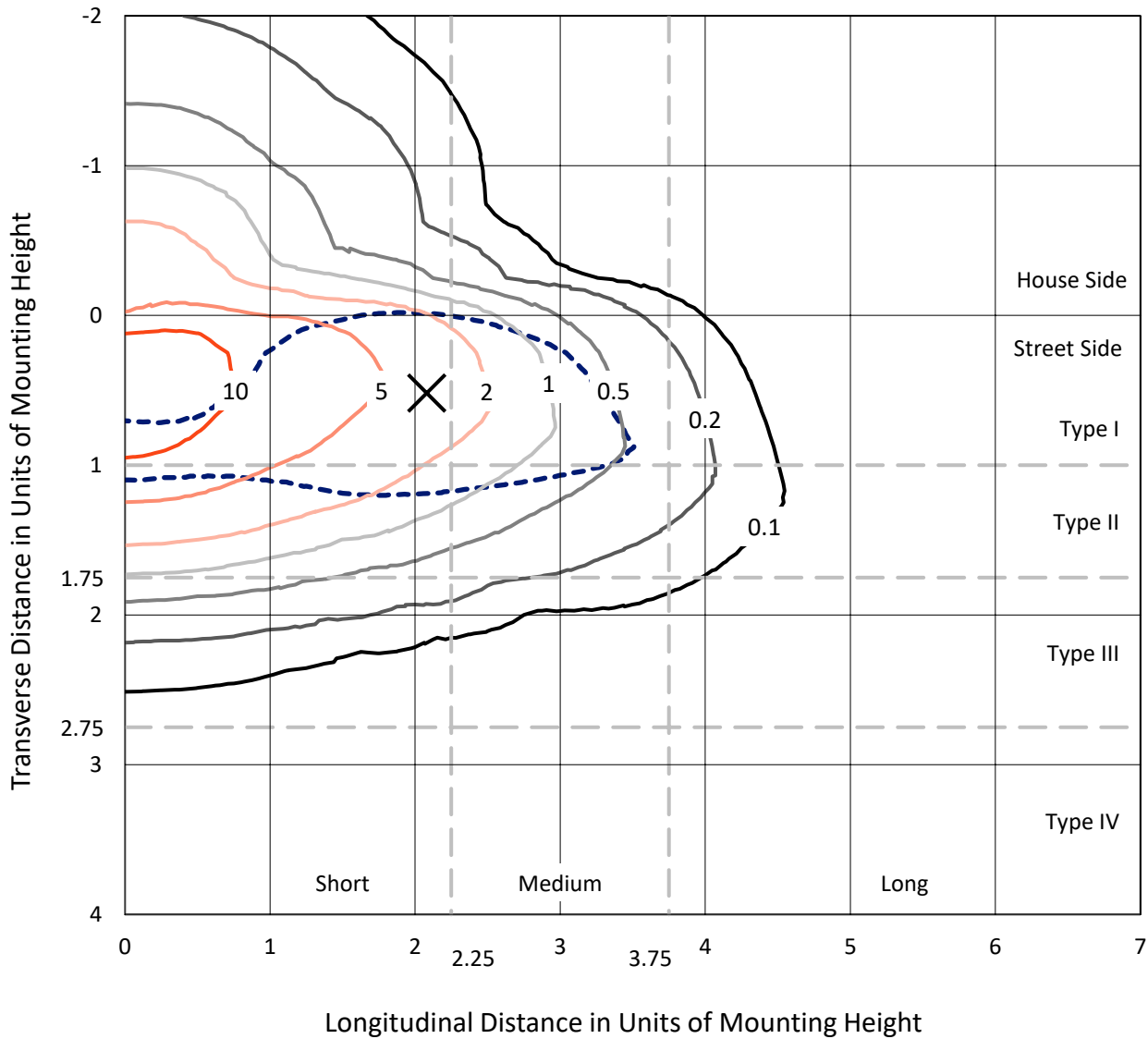
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

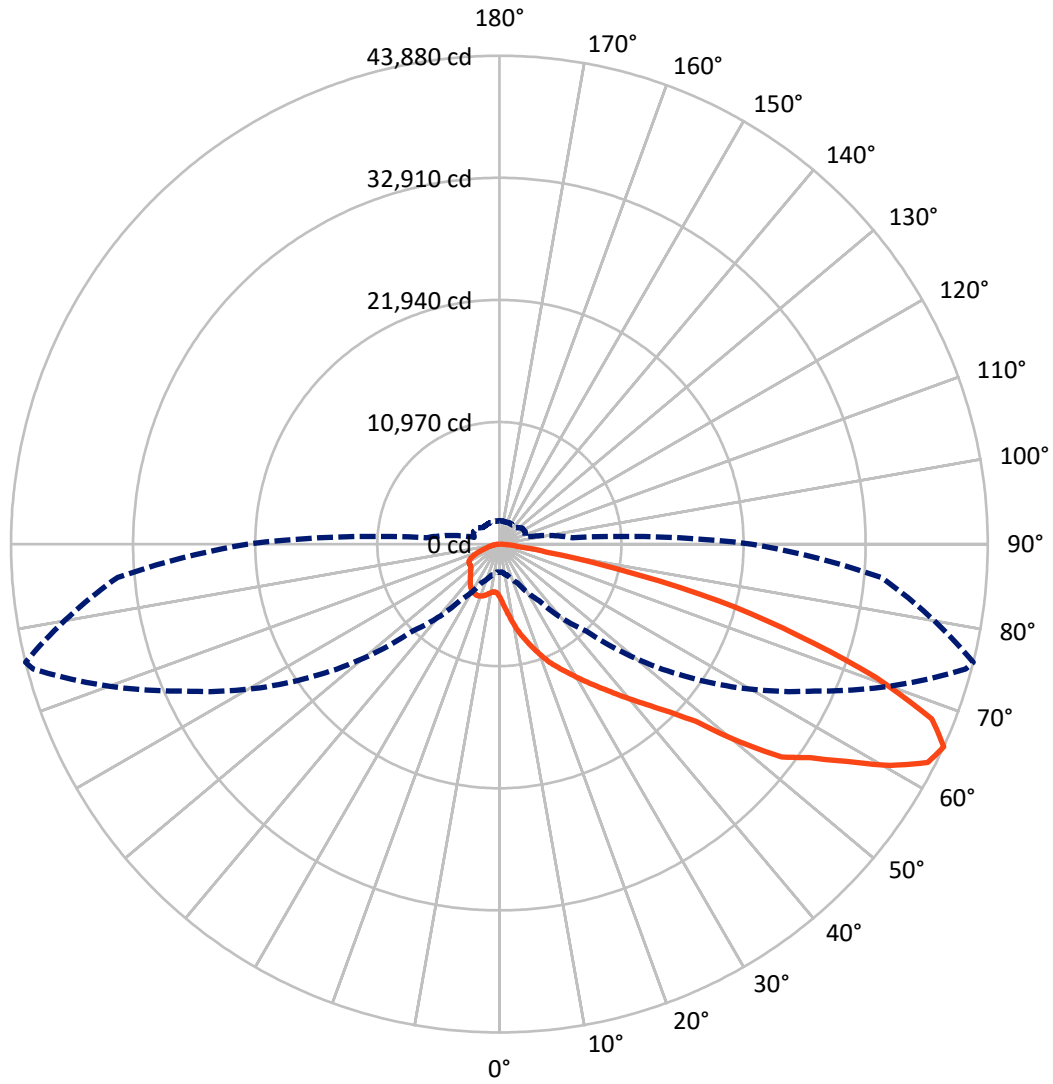
✕ Max cd
 - - - 1/2 Max cd



Based on 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 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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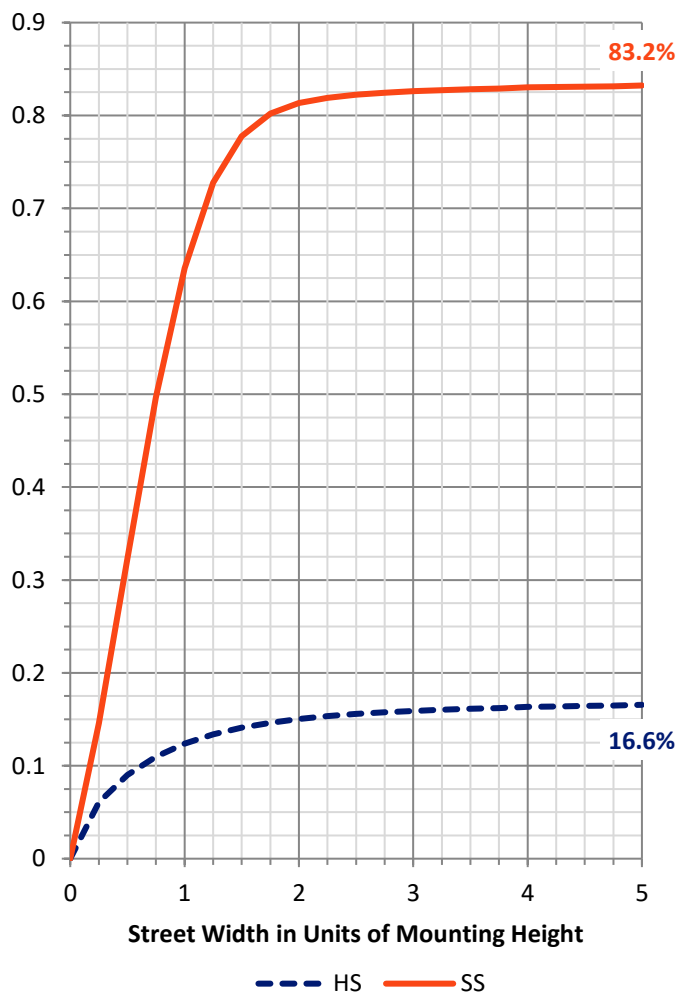
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8366.5	0.0	8366.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	41687.3	0.0	41687.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	50053.9	0.0	50053.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.1	1.1
10°-20°	2144.9	4.3
20°-30°	4180.1	8.4
30°-40°	6991.0	14.0
40°-50°	10009.7	20.0
50°-60°	11850.1	23.7
60°-70°	9853.4	19.7
70°-80°	4032.3	8.1
80°-90°	429.3	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°	50053.9	100.0
0°-180°	50053.9	100.0

Coefficient of Utilization



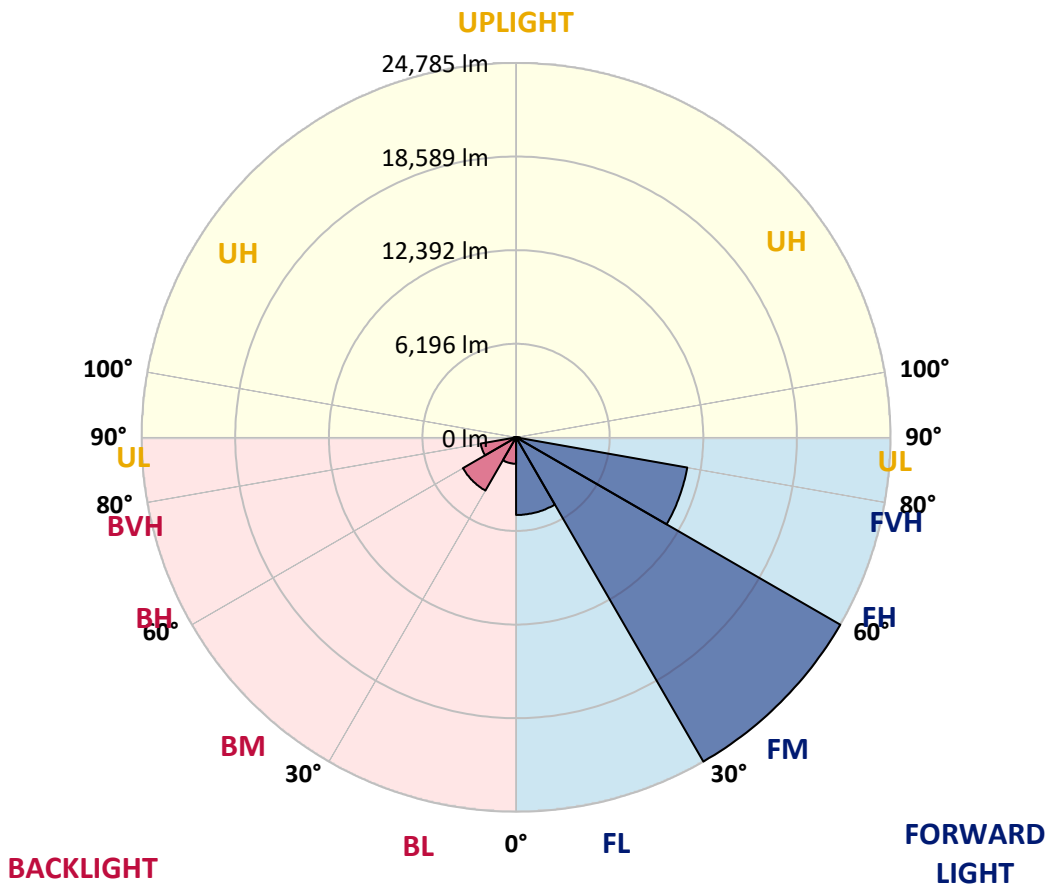
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5137.8	10.3			
FM (30°-60°)	24784.8	49.5			
FH (60°-80°)	11508.7	23.0			G4/12000
FVH (80°-90°)	256.0	0.5			G3/500
BL (0°-30°)	1750.3	3.5	B3/2500		
BM (30°-60°)	4066.0	8.1	B3/5000		
BH (60°-80°)	2377.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	173.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9
2.5°	6643.6	6668.3	6587.3	6559.2	6369.2	6112.3	5897.6	5573.9	5274.8	5229.0	4961.6
5°	8438.3	8332.7	8241.2	8181.4	7917.5	7625.4	7171.5	6562.7	5925.8	5848.4	5271.3
7.5°	9504.5	9486.9	9374.3	9339.1	9135.0	8842.9	8374.9	7618.4	6692.9	6566.2	5690.0
10°	10359.6	10349.0	10292.7	10324.4	10137.9	9852.8	9398.9	8617.7	7533.9	7407.2	6158.0
12.5°	11105.6	11123.2	11112.6	11228.7	11133.7	10912.0	10440.5	9581.9	8374.9	8237.7	6728.1
15°	11651.0	11665.1	11717.8	11971.2	12024.0	11978.2	11499.7	10528.5	9205.4	9008.3	7315.7
17.5°	11805.8	11834.0	11960.6	12368.8	12653.9	12843.9	12488.5	11492.6	10021.7	9807.1	7913.9
20°	12013.4	12045.1	12171.8	12597.6	13016.3	13449.1	13385.8	12470.9	10845.2	10669.2	8519.2
22.5°	12974.1	12949.4	12893.1	13097.2	13396.3	13934.7	14093.1	13410.4	11696.7	11527.8	9187.8
25°	14825.0	14779.3	14420.3	14233.8	14135.3	14462.6	14744.1	14265.5	12527.2	12273.8	9810.6
27.5°	16865.9	16841.3	16383.9	15940.5	15335.2	15194.5	15359.9	15011.5	13333.0	13076.1	10352.5
30°	18797.8	18723.9	18245.3	17689.4	16880.0	16274.8	16032.0	15743.4	14216.2	13948.8	10985.9
32.5°	20525.6	20430.6	19867.5	19251.7	18403.7	17689.4	16964.5	16521.1	15215.6	14905.9	11633.4
35°	21943.7	21848.7	21271.6	20617.1	19684.6	19156.7	18164.4	17365.6	16232.6	15919.4	12397.0
37.5°	23041.6	22953.6	22351.9	21707.9	20895.1	20476.3	19614.2	18315.7	17404.3	17077.1	13206.3
40°	23657.4	23594.0	23111.9	22601.7	21919.0	21556.6	21169.5	19515.7	18716.9	18389.6	14159.9
42.5°	23843.9	23801.6	23463.8	23199.9	22738.9	22464.5	22686.2	20926.7	20117.4	19832.4	15233.2
45°	23375.9	23375.9	23277.3	23411.0	23432.2	23428.6	24206.3	22520.8	21838.1	21524.9	16746.3
47.5°	22179.4	22256.9	22401.1	23059.2	23752.4	24333.0	25983.3	24646.2	24051.5	23794.6	18889.3
50°	19990.7	20201.8	20694.5	21978.9	23453.3	24931.2	27665.4	27788.5	28355.1	27901.1	22042.2
52.5°	16785.0	16753.3	18009.6	19839.4	22088.0	24955.8	28590.8	30561.4	32085.1	31771.9	24385.8
55°	13340.0	13287.3	14459.0	16982.1	19994.2	24012.8	29146.8	31831.7	34154.2	33872.7	26493.6
57.5°	10215.3	10148.4	11190.0	13466.7	17038.4	22010.5	29041.2	33344.8	37000.9	36856.7	29357.9
60°	7030.7	6949.8	7924.5	9916.2	13540.6	18949.1	27873.0	34122.5	40333.3	40382.6	32422.9
62.5°	4222.6	4176.9	4884.2	6429.0	9740.2	15155.8	25138.8	33651.0	42986.5	43208.2	34393.4
65°	2547.7	2516.0	2931.2	3835.6	6179.1	11059.8	20923.2	31240.5	43370.1	43880.3	34439.2
67.5°	1854.4	1858.0	1977.6	2336.5	3603.3	7143.3	15701.2	26919.4	41371.4	41899.2	32268.0
70°	1611.6	1618.7	1682.0	1763.0	2178.2	4088.9	10208.2	21250.5	35463.2	35871.4	27063.6
72.5°	1432.2	1432.2	1474.4	1516.6	1703.1	2491.4	5468.3	14853.2	27989.1	28098.2	20655.8
75°	1259.8	1249.2	1270.3	1291.4	1477.9	1741.8	2660.3	10349.0	20673.4	20420.0	13350.6
77.5°	1002.9	992.3	995.8	1017.0	1185.9	1245.7	1347.7	6464.2	11651.0	10996.5	5897.6
80°	714.3	707.3	746.0	798.8	876.2	763.6	844.5	3128.3	4620.3	4300.1	2287.3
82.5°	425.8	439.9	499.7	541.9	605.2	478.6	545.4	1045.1	1636.3	1594.0	929.0
85°	59.8	63.3	179.5	207.6	260.4	186.5	288.5	471.5	654.5	700.3	327.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	24.6	84.5	186.5	190.0	80.9
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°	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9	4739.9
2.5°	4824.4	4659.0	4423.2	4226.2	4060.8	3927.1	3814.5	3730.0	3705.4	3670.2	3670.2
5°	5000.3	4701.2	4278.9	3979.8	3807.4	3705.4	3635.0	3599.8	3582.2	3561.1	3550.5
7.5°	5243.1	4824.4	4254.3	3951.7	3818.0	3754.6	3708.9	3687.8	3673.7	3652.6	3652.6
10°	5577.4	5007.4	4331.7	4050.2	3944.7	3881.3	3828.5	3793.3	3761.7	3730.0	3723.0
12.5°	5939.9	5246.6	4472.5	4183.9	4071.3	3993.9	3920.0	3867.2	3828.5	3789.8	3779.3
15°	6341.0	5493.0	4623.8	4314.1	4173.4	4067.8	3979.8	3898.9	3846.1	3789.8	3782.8
17.5°	6735.1	5742.8	4750.5	4402.1	4222.6	4092.4	3965.8	3860.2	3793.3	3730.0	3712.4
20°	7206.6	5992.6	4838.4	4426.7	4212.1	4039.7	3888.4	3754.6	3680.7	3606.8	3596.3
22.5°	7639.5	6224.9	4880.7	4391.6	4131.2	3927.1	3751.1	3606.8	3525.9	3452.0	3437.9
25°	8058.2	6429.0	4863.1	4307.1	4008.0	3772.2	3589.2	3445.0	3367.6	3290.1	3269.0
27.5°	8462.9	6566.2	4792.7	4176.9	3853.2	3599.8	3423.9	3293.7	3226.8	3159.9	3131.8
30°	8860.5	6692.9	4683.6	4008.0	3656.1	3420.3	3276.1	3184.6	3117.7	3047.3	3026.2
32.5°	9261.7	6784.4	4518.2	3810.9	3455.5	3262.0	3174.0	3107.2	3036.8	2966.4	2945.3
35°	9666.3	6823.1	4317.7	3585.7	3286.6	3159.9	3128.3	3050.9	2955.9	2871.4	2843.2
37.5°	10148.4	6858.3	4067.8	3364.0	3138.8	3110.7	3103.6	2987.5	2874.9	2758.8	2727.1
40°	10729.0	6904.0	3810.9	3163.5	3019.2	3093.1	3064.9	2906.6	2681.4	2568.8	2533.6
42.5°	11439.8	6988.5	3543.5	2980.5	2931.2	3026.2	2994.6	2709.5	2558.2	2494.9	2477.3
45°	12485.0	7298.1	3276.1	2836.2	2864.4	2931.2	2882.0	2593.4	2533.6	2491.4	2470.2
47.5°	14346.4	7773.2	3043.8	2727.1	2811.6	2846.8	2656.7	2561.7	2516.0	2459.7	2435.1
50°	16281.8	7980.8	2857.3	2660.3	2751.8	2769.4	2533.6	2519.5	2487.8	2428.0	2403.4
52.5°	17590.8	7952.6	2744.7	2635.6	2702.5	2635.6	2477.3	2473.8	2452.7	2382.3	2354.1
55°	19068.8	8001.9	2695.5	2642.7	2681.4	2410.4	2406.9	2417.5	2406.9	2329.5	2315.4
57.5°	21064.0	8153.2	2670.8	2667.3	2667.3	2301.3	2340.0	2354.1	2333.0	2297.8	2287.3
60°	22981.7	8163.8	2625.1	2695.5	2656.7	2234.5	2262.6	2276.7	2252.1	2245.0	2241.5
62.5°	23703.1	7657.1	2523.0	2674.3	2614.5	2160.6	2181.7	2188.7	2164.1	2181.7	2178.2
65°	22629.9	6580.3	2354.1	2572.3	2484.3	2093.7	2079.7	2097.2	2055.0	2100.8	2104.3
67.5°	20092.8	5229.0	2097.2	2378.8	2301.3	2019.8	1991.7	1991.7	1921.3	1991.7	1988.2
70°	16200.9	3694.8	1720.7	2069.1	2100.8	1931.9	1917.8	1836.9	1724.2	1829.8	1819.3
72.5°	12280.9	2653.2	1354.8	1636.3	1808.7	1808.7	1812.2	1675.0	1544.8	1594.0	1551.8
75°	7780.2	1868.5	1083.8	1252.7	1418.1	1587.0	1667.9	1414.6	1298.5	1277.4	1256.2
77.5°	3504.8	1228.1	844.5	960.7	1006.4	1252.7	1523.7	1217.5	1059.2	1013.4	999.4
80°	1467.4	763.6	601.7	679.1	619.3	1052.1	1344.2	946.6	777.7	714.3	668.6
82.5°	644.0	453.9	383.6	366.0	387.1	781.2	1002.9	629.9	485.6	658.0	665.1
85°	271.0	239.3	197.1	179.5	158.3	299.1	471.5	246.3	302.6	172.4	140.8
87.5°	63.3	70.4	52.8	35.2	21.1	3.5	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)