

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: P641357

Luminaire Tested: GWS-SA5F-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35940.9 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

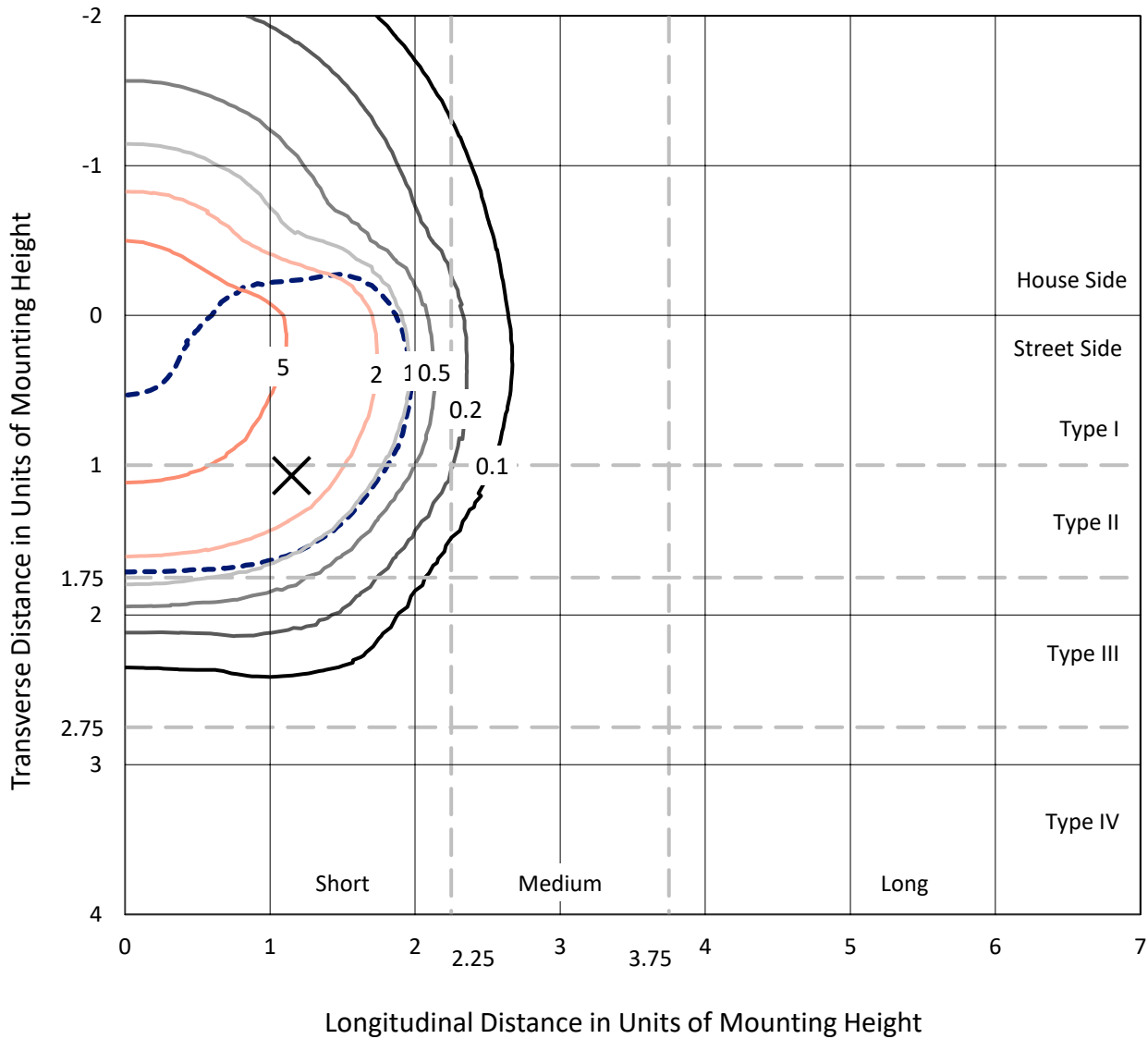
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

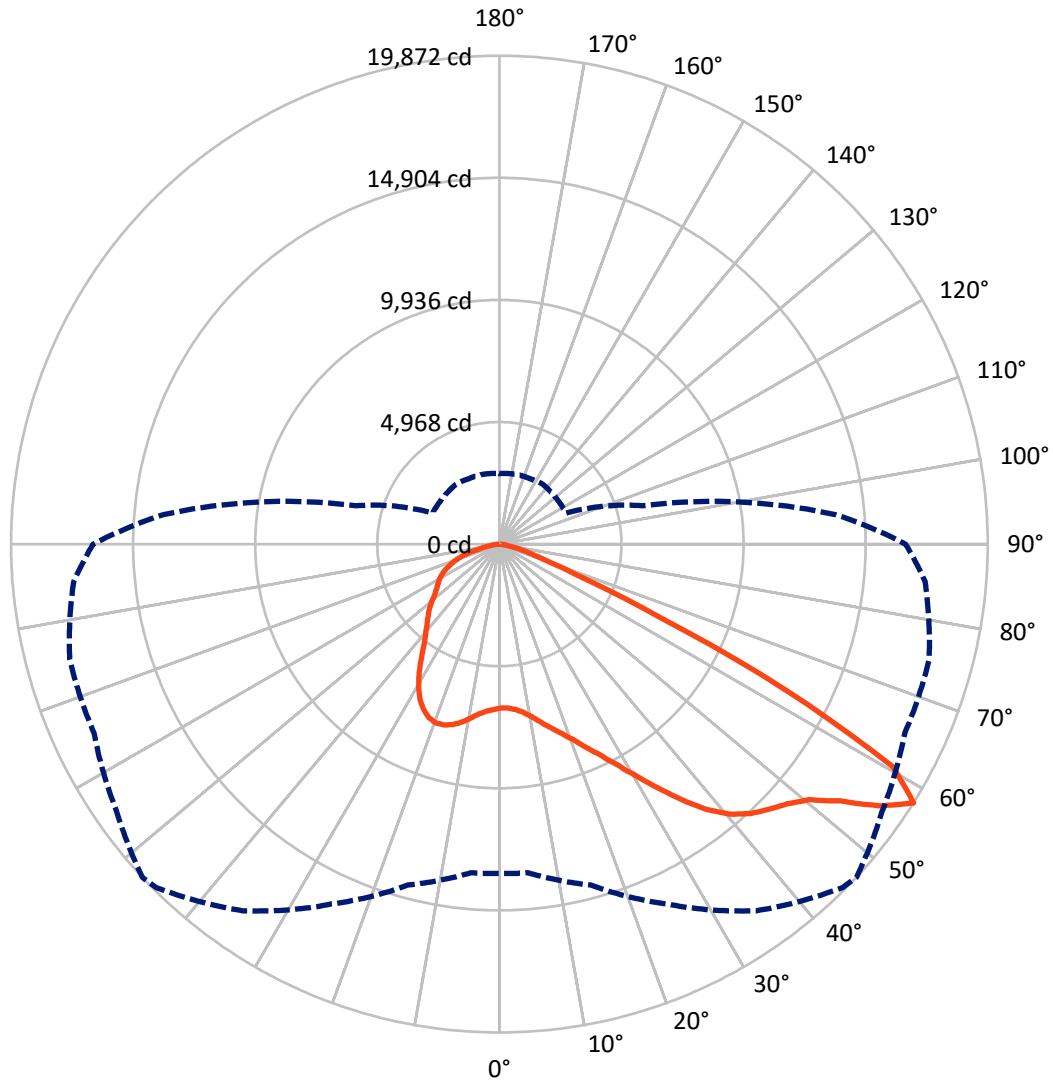
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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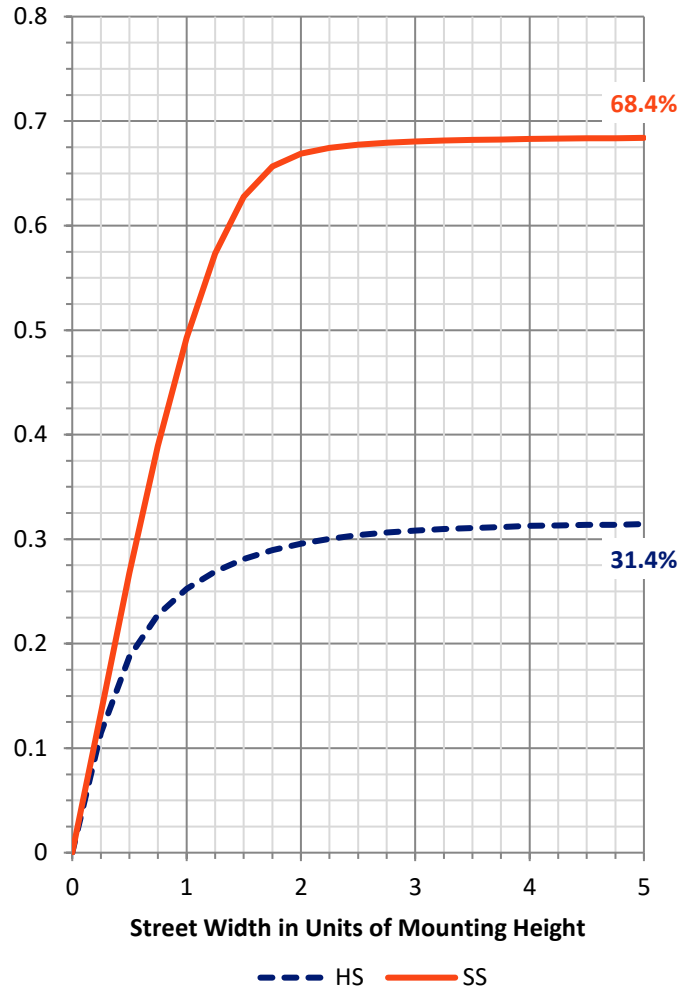
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11375.2	0.0	11375.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24565.7	0.0	24565.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	35940.9	0.0	35940.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.4	1.8
10°-20°	2162.3	6.0
20°-30°	3893.4	10.8
30°-40°	5880.5	16.4
40°-50°	7918.8	22.0
50°-60°	9515.5	26.5
60°-70°	4634.2	12.9
70°-80°	1141.7	3.2
80°-90°	137.2	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°	35940.9	100.0
0°-180°	35940.9	100.0

Coefficient of Utilization

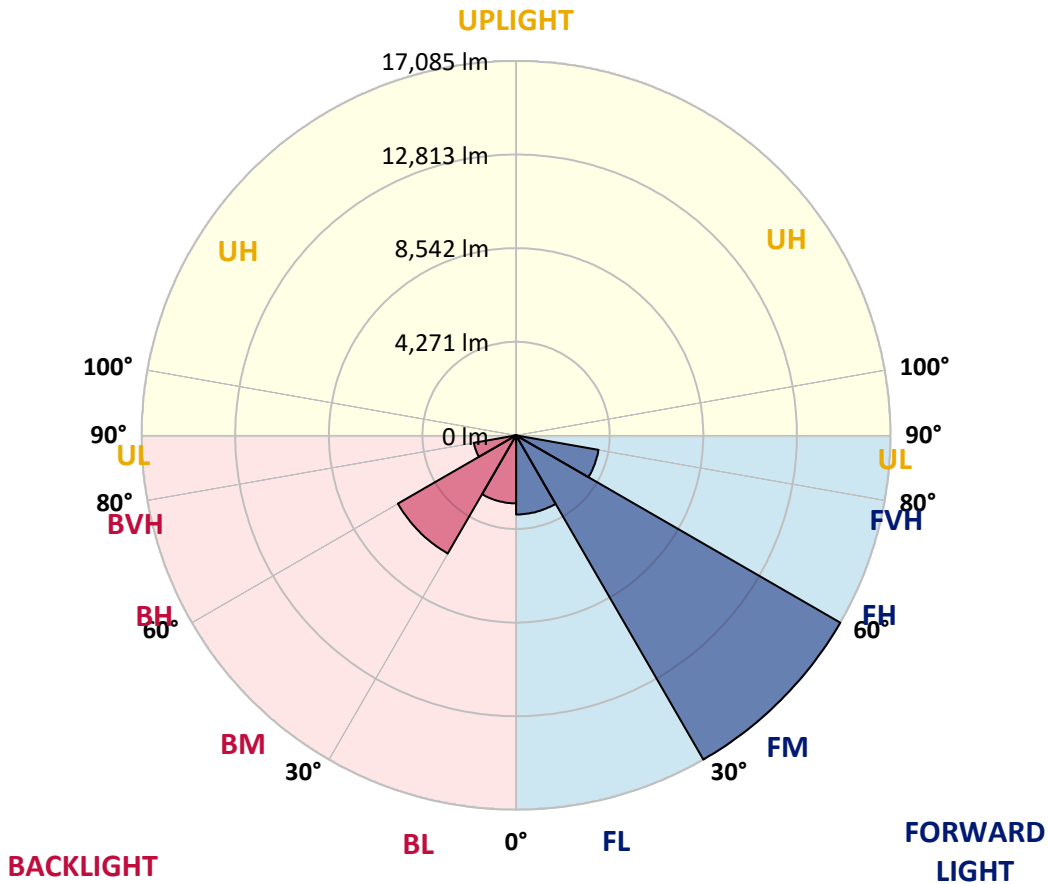


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3610.1	10.0			
FM (30°-60°)	17084.6	47.5			
FH (60°-80°)	3819.4	10.6			G2/5000
FVH (80°-90°)	51.6	0.1			G1/100
BL (0°-30°)	3102.9	8.6	B4/5000		
BM (30°-60°)	6230.1	17.3	B4/8500		
BH (60°-80°)	1956.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	85.6	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3
2.5°	6653.2	6650.2	6650.2	6668.3	6668.3	6674.3	6683.4	6692.5	6695.5	6680.4	6647.2
5°	6725.7	6725.7	6725.7	6740.8	6740.8	6746.8	6758.9	6761.9	6758.9	6734.7	6701.5
7.5°	6840.4	6840.4	6843.4	6861.5	6876.6	6885.7	6906.8	6903.8	6894.7	6855.5	6813.2
10°	7027.5	7036.6	7045.6	7066.8	7097.0	7118.1	7133.2	7133.2	7121.1	7060.7	7006.4
12.5°	7293.2	7305.3	7314.3	7332.4	7356.6	7392.8	7426.0	7426.0	7410.9	7335.4	7253.9
15°	7604.1	7616.2	7613.2	7619.2	7664.5	7715.8	7743.0	7761.1	7767.1	7661.5	7534.7
17.5°	7960.3	7972.4	7960.3	7942.2	7948.2	8029.7	8078.0	8144.5	8183.7	8041.8	7839.6
20°	8283.3	8271.2	8271.2	8283.3	8301.4	8401.0	8473.5	8582.2	8630.5	8458.4	8144.5
22.5°	8624.4	8651.6	8639.5	8639.5	8712.0	8878.0	8965.5	9107.4	9158.7	8935.4	8512.7
25°	9065.2	9089.3	9083.3	9089.3	9173.8	9409.3	9496.8	9759.5	9810.8	9490.8	8920.3
27.5°	9548.2	9587.4	9605.5	9599.5	9735.3	10043.2	10151.9	10517.2	10610.7	10112.6	9355.0
30°	10176.0	10218.3	10233.4	10227.4	10387.4	10806.9	10930.7	11347.3	11480.1	10849.2	9907.4
32.5°	10903.5	10945.8	10991.1	11009.2	11214.5	11643.1	11821.2	12252.9	12443.1	11700.5	10574.5
35°	11625.0	11661.2	11748.8	11890.7	12171.4	12609.1	12766.1	13191.7	13375.9	12585.0	11380.5
37.5°	12422.0	12446.1	12521.6	12717.8	13122.3	13538.9	13695.8	14103.4	14124.5	13439.3	12292.2
40°	13294.4	13294.4	13279.3	13472.5	13895.1	14314.7	14450.5	14686.0	14562.2	14097.3	13179.6
42.5°	14033.9	14021.9	14033.9	14215.1	14529.0	14870.1	14987.9	14942.6	14785.6	14601.5	13982.6
45°	14701.1	14710.1	14818.8	14957.7	15120.7	15322.9	15392.4	15135.8	14993.9	15006.0	14625.6
47.5°	15153.9	15162.9	15416.5	15648.9	15748.6	15812.0	15781.8	15425.6	15353.1	15489.0	15120.7
50°	15214.3	15262.6	15700.3	16177.2	16424.8	16433.8	16349.3	15914.6	15893.5	16047.4	15386.3
52.5°	15226.3	15274.6	15821.0	16681.3	17324.3	17460.2	17363.6	16910.8	16690.4	16536.4	15712.3
55°	15181.0	15235.4	15839.1	17019.4	18251.1	18794.4	18803.5	18163.5	17460.2	17357.5	16642.1
57.5°	13403.0	13424.2	14360.0	16159.1	18214.8	19754.4	19872.1	19002.7	18199.7	18103.1	17387.7
60°	9336.8	9421.4	10438.7	12814.4	15301.8	18015.6	18396.0	18142.4	17605.1	16901.7	14918.4
62.5°	4676.0	4748.4	5768.7	8014.7	10553.4	12696.7	13104.2	13372.8	13499.6	12745.0	10157.9
65°	2013.5	2067.8	2701.7	4186.9	5974.0	7009.4	7151.3	7474.3	8265.2	7374.7	5472.9
67.5°	1346.3	1382.6	1705.6	2553.8	3519.8	3586.2	3565.1	3634.5	3806.6	3142.5	2472.3
70°	1032.4	1062.6	1279.9	1871.6	2529.7	2164.4	2049.7	1859.5	2019.5	2058.8	2004.4
72.5°	748.6	772.8	935.8	1276.9	1584.8	1382.6	1364.5	1461.1	1678.4	1738.8	1705.6
75°	483.0	495.1	594.7	700.3	818.1	887.5	923.7	1098.8	1319.2	1364.5	1325.2
77.5°	323.0	332.1	389.4	449.8	464.9	467.9	480.0	558.5	709.4	793.9	784.9
80°	169.0	169.0	190.2	190.2	217.3	259.6	271.7	323.0	392.4	434.7	437.7
82.5°	66.4	69.4	81.5	90.6	108.7	132.8	141.9	169.0	205.3	235.5	262.6
85°	27.2	30.2	33.2	39.2	48.3	60.4	63.4	72.4	96.6	120.7	135.8
87.5°	0.0	0.0	3.0	3.0	6.0	9.1	9.1	12.1	15.1	27.2	36.2
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°	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3	6665.3
2.5°	6686.4	6647.2	6686.4	6698.5	6731.7	6743.8	6722.6	6719.6	6719.6	6689.4	6680.4
5°	6731.7	6695.5	6734.7	6752.8	6801.1	6831.3	6837.4	6861.5	6876.6	6864.5	6861.5
7.5°	6843.4	6798.1	6840.4	6867.5	6930.9	6979.2	7000.4	7054.7	7093.9	7087.9	7084.9
10°	7039.6	6979.2	7027.5	7072.8	7142.2	7199.6	7202.6	7232.8	7272.1	7260.0	7253.9
12.5°	7266.0	7208.7	7263.0	7308.3	7389.8	7413.9	7374.7	7362.6	7368.6	7353.6	7341.5
15°	7543.7	7462.2	7510.5	7561.8	7607.1	7580.0	7495.4	7462.2	7459.2	7438.1	7426.0
17.5°	7821.5	7718.8	7755.0	7782.2	7761.1	7676.6	7570.9	7513.5	7486.4	7444.1	7432.0
20°	8096.2	7966.4	7960.3	7939.2	7842.6	7688.6	7546.8	7432.0	7362.6	7305.3	7284.1
22.5°	8410.1	8229.0	8138.4	8041.8	7830.5	7580.0	7365.6	7202.6	7090.9	7018.5	6994.3
25°	8748.2	8491.6	8304.4	8111.2	7709.8	7347.5	7048.7	6825.3	6692.5	6614.0	6586.8
27.5°	9083.3	8730.1	8449.3	8120.3	7468.3	7012.4	6611.0	6309.1	6176.3	6112.9	6091.7
30°	9536.1	9047.0	8621.4	8002.6	7151.3	6547.6	6046.5	5741.6	5654.0	5608.7	5590.6
32.5°	10058.3	9448.5	8850.8	7755.0	6746.8	6004.2	5475.9	5264.6	5204.2	5116.7	5113.7
35°	10746.6	10022.1	9068.2	7389.8	6236.6	5421.6	5038.2	4887.3	4778.6	4639.7	4627.7
37.5°	11549.5	10737.5	9185.9	6924.9	5642.0	4941.6	4712.2	4543.1	4368.1	4183.9	4159.8
40°	12379.7	11573.7	9195.0	6375.5	5059.3	4624.6	4431.5	4211.1	3993.7	3788.5	3761.3
42.5°	13252.1	12352.5	9035.0	5741.6	4582.4	4349.9	4153.7	3876.0	3631.5	3492.6	3477.5
45°	14030.9	12980.4	8672.7	5074.4	4229.2	4120.5	3870.0	3571.1	3441.3	3341.7	3320.6
47.5°	14643.7	13397.0	8183.7	4476.7	3942.4	3885.1	3559.0	3405.1	3305.5	3214.9	3193.8
50°	14945.6	13490.6	7546.8	3990.7	3676.8	3607.3	3384.0	3266.2	3199.8	3127.4	3109.3
52.5°	15319.9	13596.2	6997.3	3583.2	3417.2	3323.6	3239.1	3145.5	3097.2	3051.9	3036.8
55°	16180.2	13994.7	6707.6	3257.2	3169.6	3127.4	3115.3	3036.8	3021.7	2991.5	2964.4
57.5°	16530.4	13738.1	6022.3	2991.5	2973.4	2979.5	3009.6	2937.2	2922.1	2885.9	2867.8
60°	13294.4	10384.3	4078.3	2762.1	2810.4	2849.7	2879.8	2807.4	2786.3	2780.2	2756.1
62.5°	8518.8	6387.6	2846.6	2547.8	2620.2	2668.5	2686.6	2617.2	2602.1	2650.4	2653.4
65°	4434.5	3480.6	2309.3	2318.4	2378.7	2451.2	2487.4	2463.3	2457.2	2508.5	2511.6
67.5°	2264.0	2128.2	2013.5	2046.7	2095.0	2188.6	2273.1	2378.7	2415.0	2421.0	2424.0
70°	1928.9	1868.6	1811.2	1832.4	1883.7	1935.0	2016.5	2067.8	2007.4	1992.3	1986.3
72.5°	1642.2	1596.9	1569.7	1593.9	1621.0	1612.0	1587.8	1612.0	1621.0	1624.1	1627.1
75°	1276.9	1243.7	1222.6	1225.6	1225.6	1192.4	1147.1	1119.9	1089.8	1065.6	1065.6
77.5°	781.8	787.9	809.0	806.0	803.0	790.9	745.6	721.5	649.0	627.9	627.9
80°	446.8	455.8	477.0	483.0	483.0	467.9	422.6	395.4	362.2	347.2	344.1
82.5°	271.7	283.8	295.8	301.9	304.9	286.8	247.5	226.4	208.3	193.2	193.2
85°	141.9	147.9	160.0	163.0	154.0	135.8	114.7	105.7	87.5	84.5	84.5
87.5°	39.2	42.3	48.3	39.2	36.2	27.2	15.1	12.1	6.0	3.0	3.0
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)