

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: P641198

Luminaire Tested: GWS-SA5F-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41849.5 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

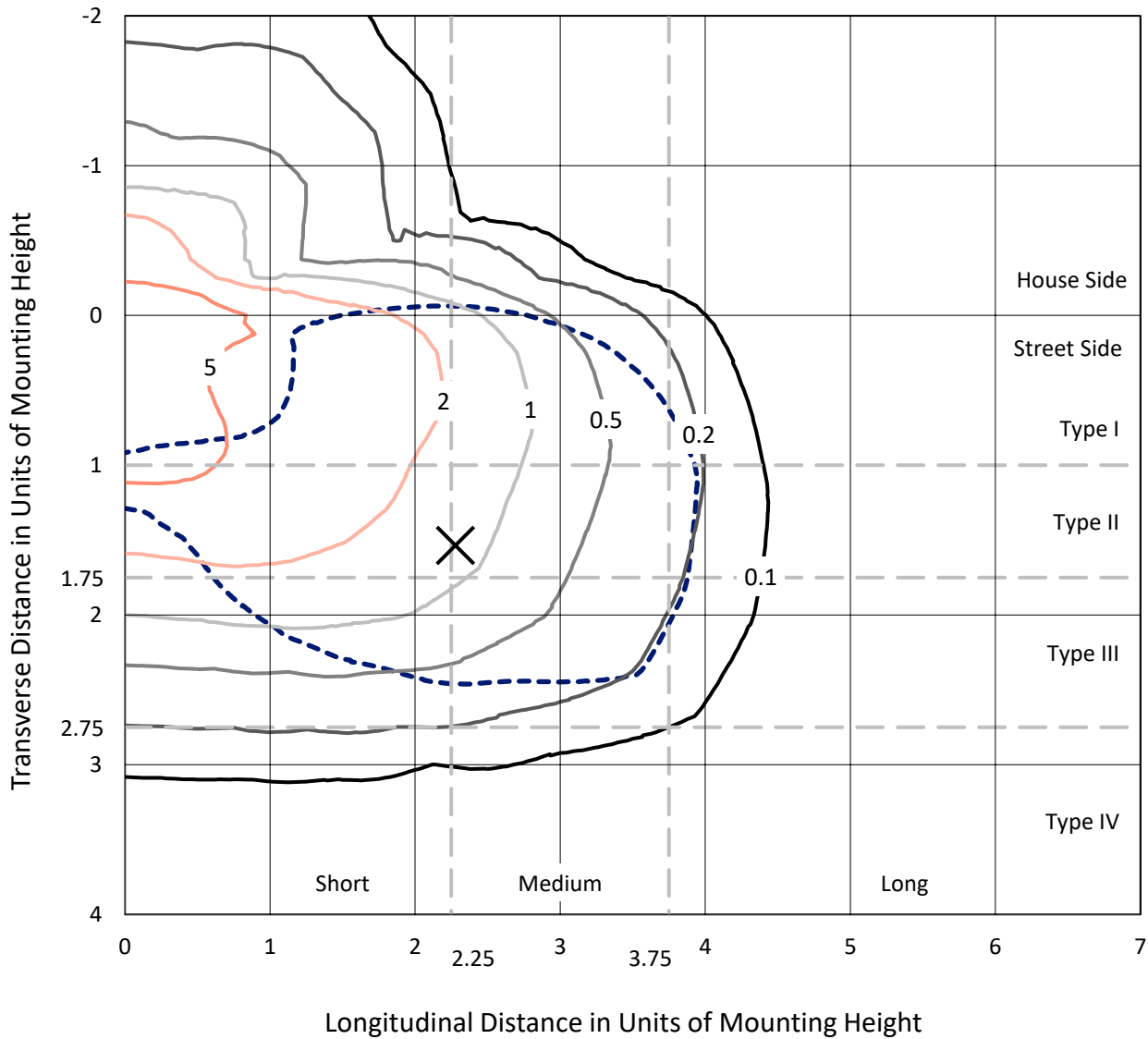
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

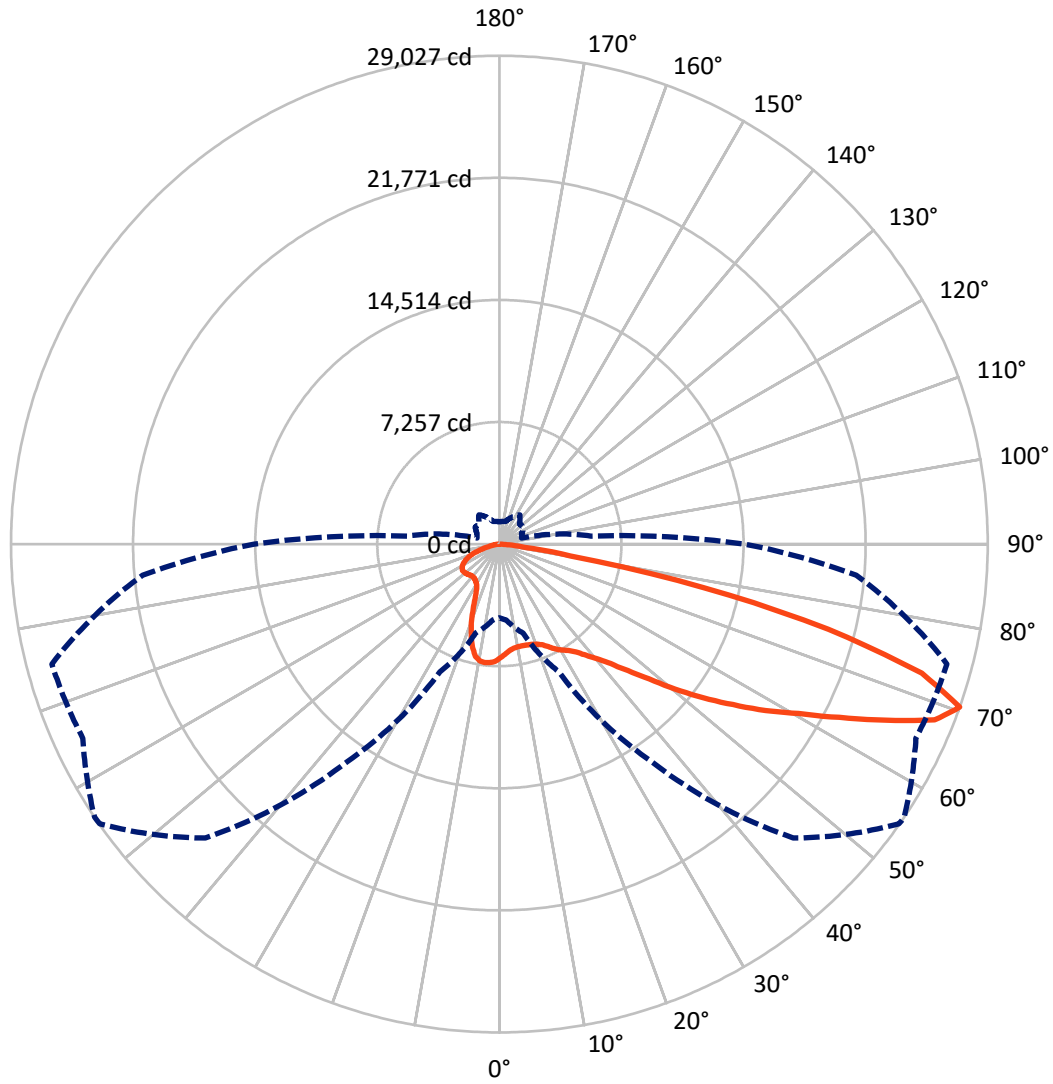
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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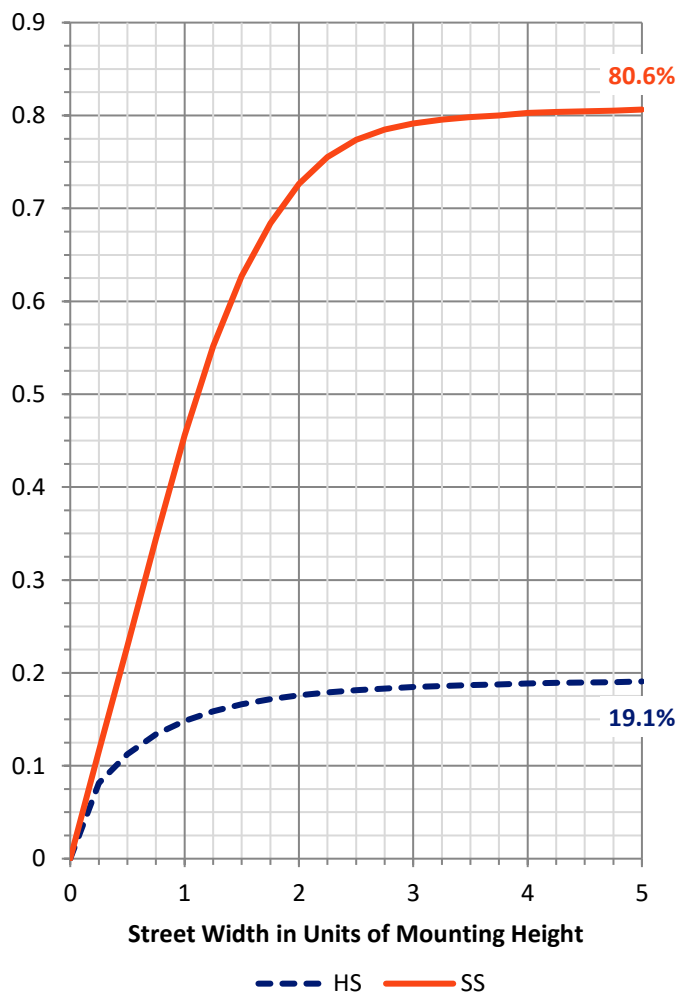
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8045.6	0.0	8045.6
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	33803.9	0.0	33803.9
	% Fixture	80.8	0.0	80.8
Total	Lumens	41849.5	0.0	41849.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.1	1.5
10°-20°	1693.8	4.0
20°-30°	2800.3	6.7
30°-40°	4186.8	10.0
40°-50°	6230.5	14.9
50°-60°	8857.9	21.2
60°-70°	10970.8	26.2
70°-80°	6057.7	14.5
80°-90°	426.6	1.0
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°	41849.5	100.0
0°-180°	41849.5	100.0

Coefficient of Utilization



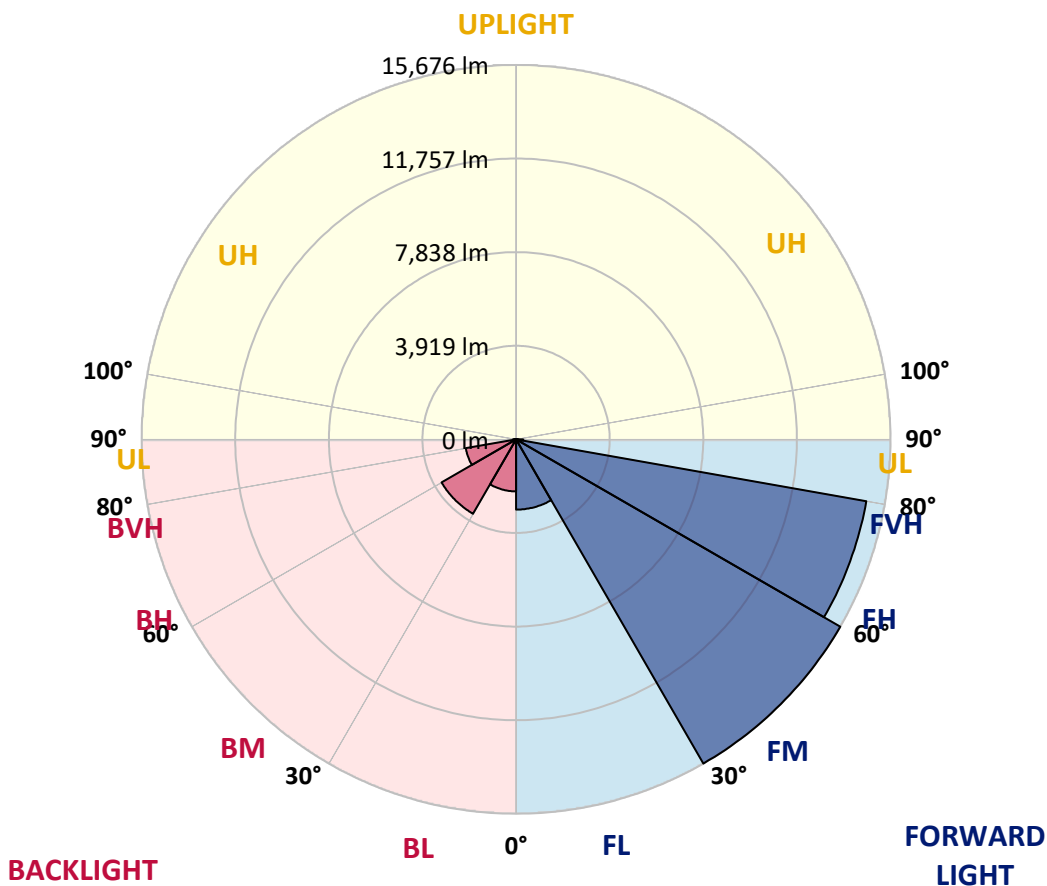
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2941.1	7.0			
FM (30°-60°)	15676.2	37.5			
FH (60°-80°)	14890.1	35.6			G5
FVH (80°-90°)	296.5	0.7			G3/500
BL (0°-30°)	2178.0	5.2	B3/2500		
BM (30°-60°)	3599.0	8.6	B3/5000		
BH (60°-80°)	2138.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	130.2	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2
2.5°	6321.3	6285.9	6327.2	6347.9	6401.0	6477.7	6545.6	6548.6	6584.0	6669.6	6752.2
5°	6035.1	6017.4	6029.2	6091.1	6147.2	6244.6	6347.9	6356.7	6457.1	6625.3	6790.6
7.5°	5813.7	5790.1	5834.4	5914.1	5984.9	6094.1	6229.9	6241.7	6383.3	6637.1	6890.9
10°	5495.0	5477.3	5559.9	5666.2	5819.6	5999.7	6179.7	6194.4	6380.4	6713.8	7068.0
12.5°	5356.3	5356.3	5391.7	5492.1	5660.3	5899.3	6170.8	6194.4	6427.6	6831.9	7295.2
15°	5571.7	5586.5	5557.0	5551.1	5619.0	5846.2	6182.6	6218.0	6516.1	6952.9	7519.5
17.5°	6005.6	6020.3	5943.6	5822.6	5754.7	5896.4	6226.9	6265.3	6610.5	7085.7	7761.5
20°	6613.5	6631.2	6463.0	6277.1	6043.9	6041.0	6312.5	6347.9	6731.5	7230.3	8018.2
22.5°	7324.7	7336.5	7124.0	6828.9	6471.8	6309.5	6460.0	6495.5	6888.0	7431.0	8295.6
25°	8148.1	8183.5	7926.8	7498.8	7014.9	6678.4	6705.0	6746.3	7168.3	7699.5	8623.2
27.5°	9027.5	9071.8	8776.7	8304.5	7637.5	7085.7	7020.8	7056.2	7466.4	7864.8	8797.3
30°	9927.6	9960.1	9665.0	9124.9	8307.5	7546.1	7286.4	7307.0	7596.2	7944.5	8974.4
32.5°	10928.1	10901.5	10618.2	9995.5	9080.6	8097.9	7534.3	7528.4	7740.8	8103.8	9228.2
35°	11866.5	11904.9	11603.9	10916.3	9930.6	8779.6	7906.1	7882.5	8047.8	8363.5	9585.3
37.5°	13002.7	12990.9	12630.9	11887.2	10783.5	9431.8	8428.4	8387.1	8446.2	8767.8	10084.0
40°	13814.3	13896.9	13663.8	12970.2	11780.9	10234.5	9039.3	8947.8	8962.6	9266.6	10751.0
42.5°	14478.3	14555.0	14578.6	14135.9	12923.0	11226.1	9800.7	9709.2	9718.1	10149.0	11571.4
45°	14988.8	15092.1	15425.6	15295.7	14209.7	12371.2	10830.7	10736.2	10742.1	11220.2	12563.0
47.5°	15198.4	15310.5	15986.3	16296.2	15576.1	13740.5	12111.5	11972.8	11993.4	12521.7	13696.2
50°	15130.5	15281.0	16195.8	17066.4	16721.1	15133.4	13643.1	13545.7	13466.0	14233.3	14926.9
52.5°	14546.2	14711.4	16175.2	17556.3	17656.7	16449.6	15224.9	15168.8	15151.1	16051.2	16302.1
55°	12825.6	13103.0	15464.0	17686.2	18388.5	17689.1	16939.5	16845.1	16936.6	17999.0	17692.1
57.5°	11872.4	12079.0	14071.0	17541.6	18987.6	18869.6	18651.2	18660.0	18763.3	20115.0	19377.2
60°	11329.4	11571.4	13297.8	17146.1	19563.1	20303.8	20442.5	20442.5	20628.4	22396.2	21088.8
62.5°	10609.3	10854.3	12574.8	16384.7	20094.3	21991.9	22694.2	22685.4	22759.2	24842.7	22762.1
65°	9148.5	9375.8	11122.8	15183.6	20354.0	23851.1	25252.9	25226.3	25078.8	27020.6	23868.8
67.5°	6643.0	6858.4	8519.9	12899.4	19418.5	25350.3	27888.2	27900.1	27017.7	28392.9	23927.8
70°	4379.5	4527.0	5477.3	8378.3	15791.5	24704.0	28992.0	29027.4	27315.7	27537.1	21295.4
72.5°	2732.8	2836.0	3420.4	4996.3	9331.5	19554.2	26158.9	26256.3	24574.1	24199.3	17497.3
75°	1814.9	1885.8	2275.3	2912.8	4317.5	10582.8	19884.8	20197.6	19695.9	18969.9	12191.1
77.5°	1091.9	1150.9	1449.0	1850.4	1912.3	4134.5	11606.8	12415.4	12486.3	9904.0	5105.5
80°	498.7	566.6	799.8	1056.5	1018.1	1440.2	4093.2	4282.1	5052.3	3145.9	1611.3
82.5°	295.1	324.6	531.2	525.3	433.8	699.4	1472.6	1511.0	1283.7	1150.9	687.6
85°	118.0	138.7	224.3	197.7	159.4	227.2	554.8	581.4	557.8	501.7	253.8
87.5°	0.0	0.0	0.0	0.0	3.0	5.9	50.2	53.1	76.7	138.7	76.7
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°	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2
2.5°	6805.3	6787.6	6876.1	6944.0	6973.5	7003.0	6976.5	6967.6	6967.6	6908.6	6879.1
5°	6879.1	6888.0	7009.0	7065.0	7065.0	7041.4	6970.6	6920.4	6902.7	6826.0	6805.3
7.5°	7017.8	7056.2	7168.3	7165.4	7082.7	6952.9	6775.8	6640.1	6516.1	6463.0	6430.5
10°	7245.0	7295.2	7371.9	7248.0	7017.8	6675.5	6300.7	6005.6	5828.5	5686.8	5686.8
12.5°	7504.7	7552.0	7537.2	7250.9	6775.8	6135.4	5595.4	5256.0	5008.1	4878.2	4878.2
15°	7764.4	7802.8	7643.4	7115.2	6271.2	5418.3	4828.1	4420.8	4205.4	4084.4	4084.4
17.5°	8027.1	8024.1	7687.7	6802.4	5613.1	4624.4	4046.0	3730.2	3656.5	3635.8	3632.8
20°	8280.9	8213.0	7631.6	6280.0	4848.7	3824.7	3458.7	3479.4	3588.6	3635.8	3641.7
22.5°	8567.2	8398.9	7466.4	5613.1	3981.1	3269.9	3293.5	3464.6	3624.0	3694.8	3703.7
25°	8859.3	8558.3	7189.0	4831.0	3255.1	3066.2	3249.2	3441.0	3621.0	3712.5	3721.4
27.5°	8977.4	8558.3	6716.8	3925.0	2868.5	2980.6	3181.3	3367.2	3556.1	3662.4	3683.0
30°	9074.7	8484.5	6055.7	3107.5	2709.1	2898.0	3072.1	3243.3	3429.2	3559.1	3582.7
32.5°	9210.5	8419.6	5256.0	2611.8	2635.4	2818.3	2939.3	3083.9	3252.2	3337.7	3328.9
35°	9369.9	8319.3	4291.0	2375.7	2573.4	2750.5	2836.0	2921.6	2844.9	2841.9	2850.8
37.5°	9597.1	8230.7	3449.9	2269.4	2532.1	2703.2	2774.1	2591.1	2484.9	2440.6	2422.9
40°	9924.7	8195.3	2720.9	2207.5	2526.2	2700.3	2650.1	2366.8	2222.2	2068.7	2065.8
42.5°	10337.8	8168.7	2248.8	2177.9	2546.8	2768.2	2479.0	2219.3	1921.2	1853.3	1847.4
45°	10869.0	8127.4	2012.7	2172.0	2597.0	2821.3	2461.2	2015.6	1812.0	1782.5	1782.5
47.5°	11509.4	8062.5	1906.4	2172.0	2653.1	2797.7	2408.1	1971.4	1761.8	1794.3	1814.9
50°	12244.3	7979.9	1850.4	2166.1	2709.1	2797.7	2296.0	1962.5	1750.0	1918.2	1986.1
52.5°	13029.3	7885.4	1812.0	2142.5	2747.5	2800.6	2301.9	1992.0	1761.8	1947.8	2003.8
55°	13896.9	7870.7	1758.9	2092.4	2759.3	2723.9	2316.6	2056.9	1779.5	1764.8	1767.7
57.5°	14991.8	8047.8	1720.5	2018.6	2712.1	2567.5	2346.2	2104.2	1758.9	1761.8	1782.5
60°	16136.8	8381.2	1753.0	1947.8	2614.7	2419.9	2366.8	2080.6	1658.5	1611.3	1617.2
62.5°	17110.7	8635.0	1779.5	1915.3	2473.1	2290.1	2346.2	2027.4	1602.5	1590.7	1617.2
65°	17518.0	8425.5	1714.6	1847.4	2266.5	2130.7	2301.9	1959.6	1555.2	1511.0	1513.9
67.5°	17066.4	7442.8	1587.7	1696.9	2033.3	1927.1	2231.1	1871.0	1490.3	1437.2	1425.4
70°	14578.6	5468.5	1369.3	1457.9	1750.0	1688.1	2121.9	1755.9	1387.0	1348.7	1322.1
72.5°	11748.5	3871.9	1136.2	1159.8	1372.3	1422.4	1933.0	1611.3	1269.0	1159.8	1121.4
75°	8177.6	2431.7	947.3	923.7	991.6	1086.0	1508.0	1336.9	1094.9	979.8	944.4
77.5°	3517.8	1248.3	740.7	728.9	661.1	752.5	1156.8	1115.5	917.8	785.0	764.3
80°	1177.5	723.0	534.2	513.5	439.7	528.3	814.5	891.2	720.1	581.4	546.0
82.5°	590.2	419.1	339.4	306.9	295.1	333.5	481.0	554.8	498.7	401.4	339.4
85°	289.2	239.0	185.9	183.0	153.5	144.6	200.7	236.1	224.3	165.3	156.4
87.5°	106.2	94.4	59.0	47.2	29.5	20.7	11.8	11.8	8.9	8.9	8.9
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)