

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: P641186

Luminaire Tested: GWS-SA5F-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40843.2 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

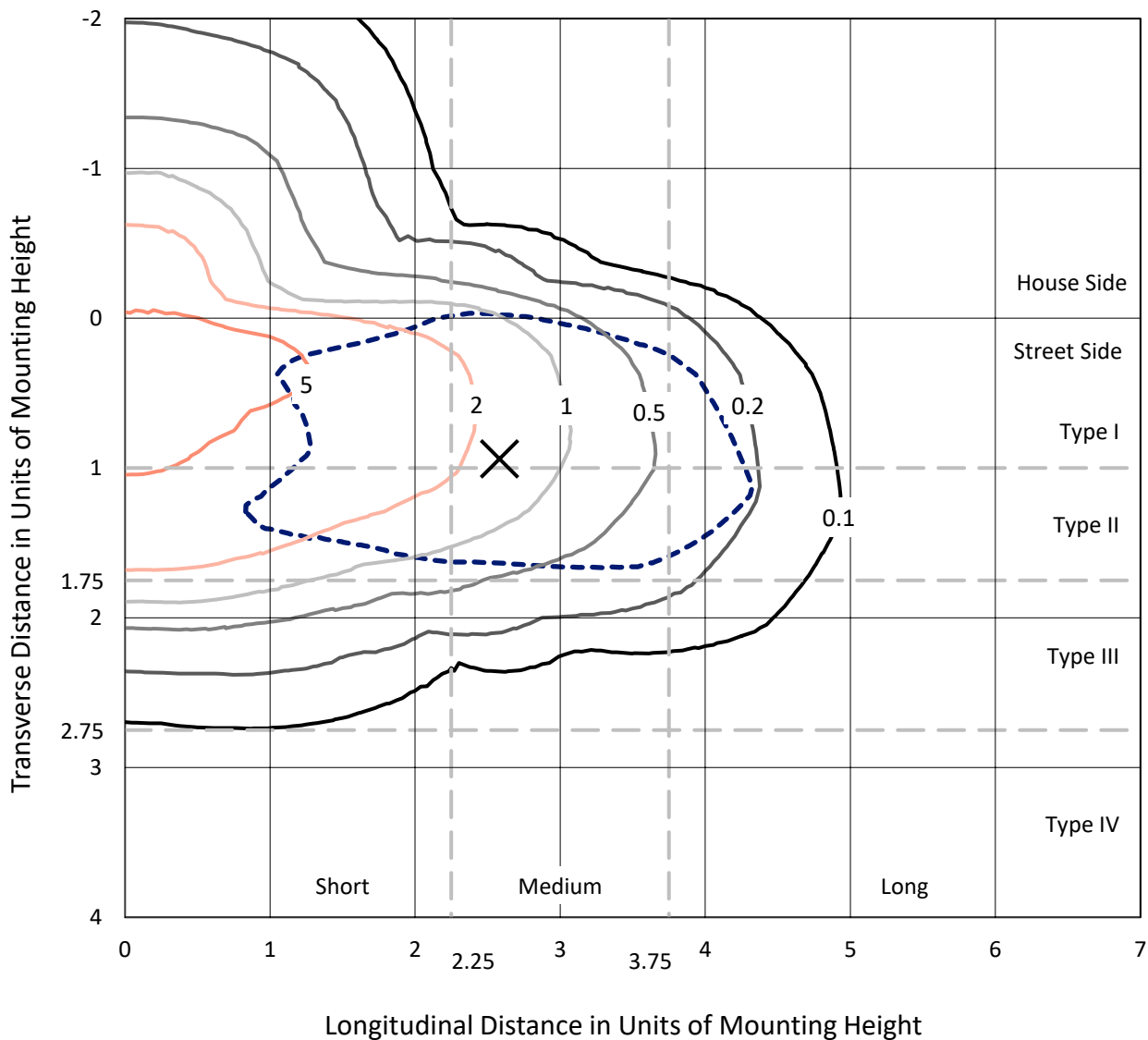
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

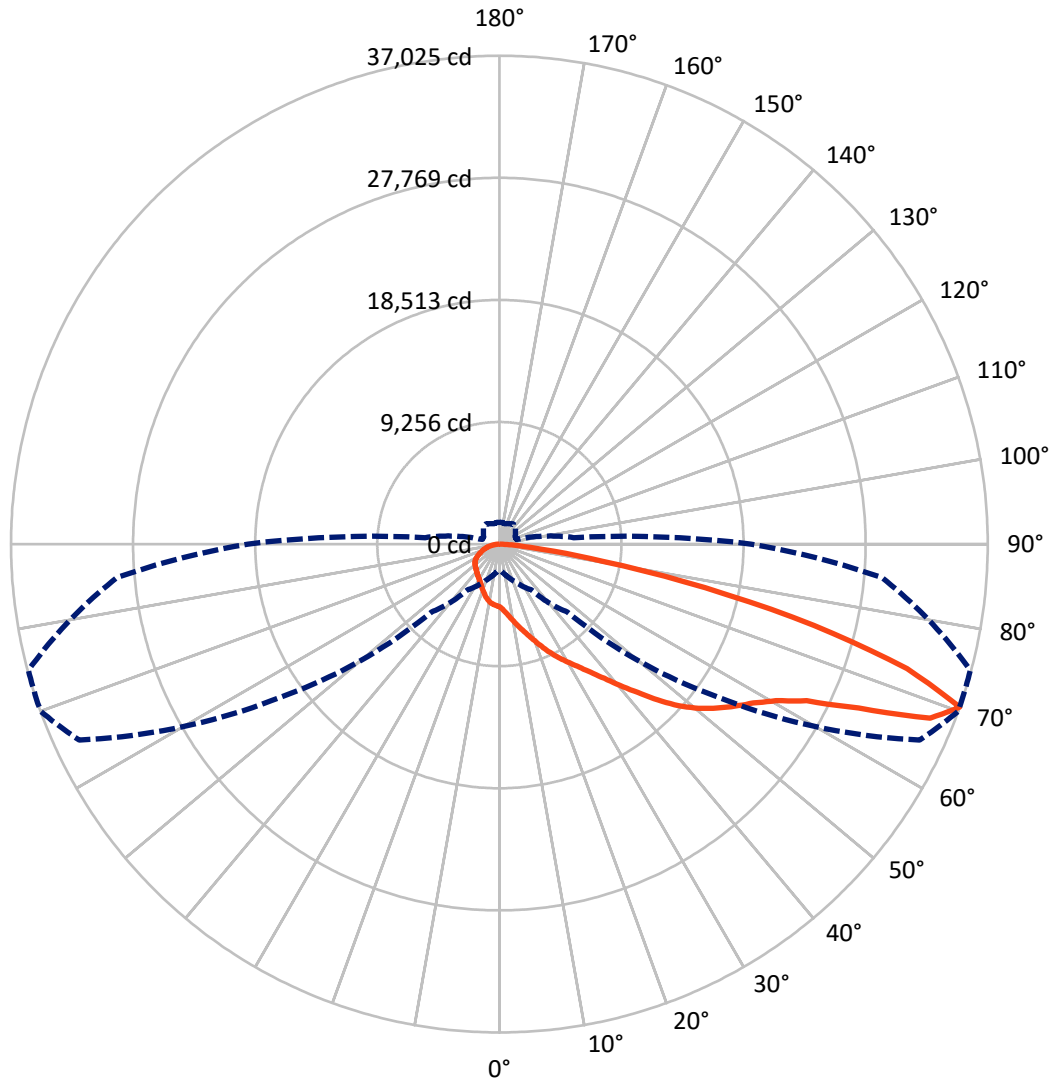
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GWS-SA5F-735-U-T2-W

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7319.2	0.0	7319.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	33524.0	0.0	33524.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	40843.2	0.0	40843.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.1	1.2
10°-20°	1574.9	3.9
20°-30°	2789.9	6.8
30°-40°	4198.9	10.3
40°-50°	6352.4	15.6
50°-60°	9100.1	22.3
60°-70°	10059.2	24.6
70°-80°	5676.6	13.9
80°-90°	607.2	1.5
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°	40843.2	100.0
0°-180°	40843.2	100.0

Coefficient of Utilization



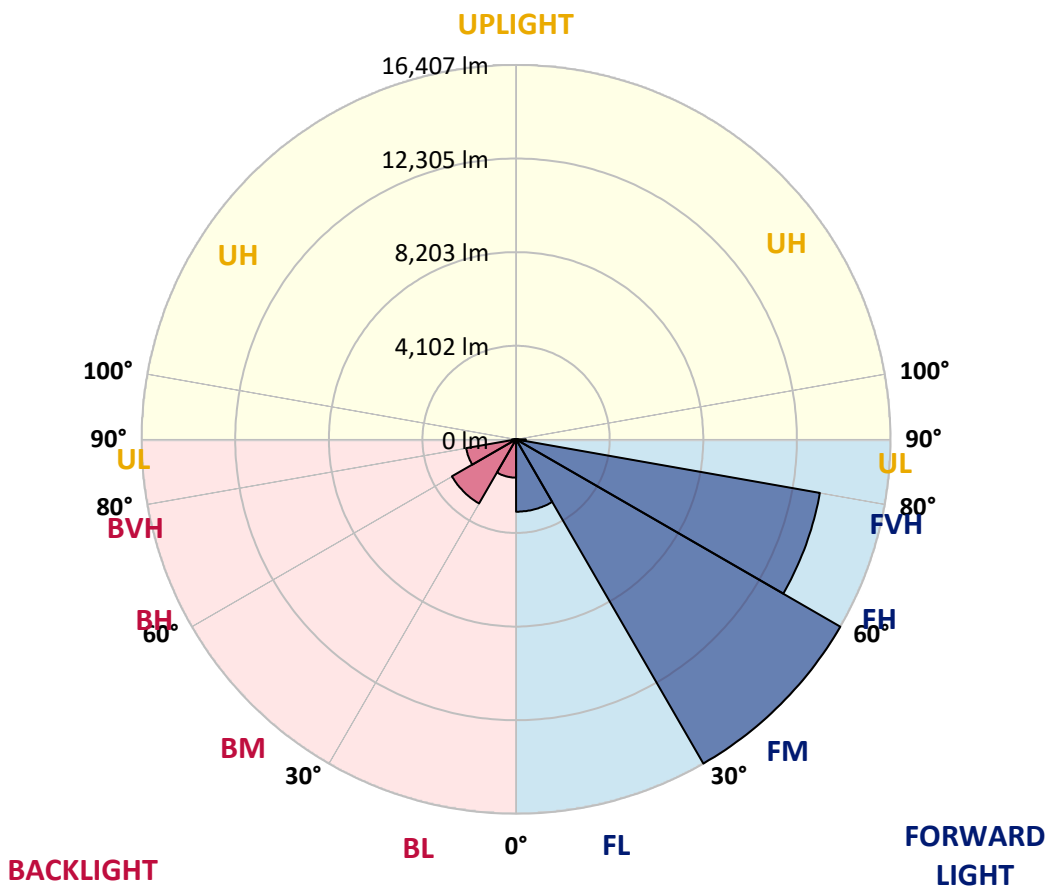
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3170.7	7.8			
FM (30°-60°)	16406.7	40.2			
FH (60°-80°)	13517.4	33.1			G5
FVH (80°-90°)	429.2	1.1			G3/500
BL (0°-30°)	1678.2	4.1	B3/2500		
BM (30°-60°)	3244.6	7.9	B3/5000		
BH (60°-80°)	2218.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	178.0	0.4			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2
2.5°	5276.7	5267.8	5273.7	5267.8	5235.3	5155.7	5090.7	5008.1	4952.0	4919.6	4842.8
5°	5896.4	5887.6	5866.9	5837.4	5778.4	5669.2	5506.9	5326.8	5217.6	5135.0	4972.7
7.5°	6342.0	6342.0	6339.1	6303.7	6262.3	6147.3	5955.4	5719.3	5560.0	5418.3	5152.7
10°	6569.3	6584.0	6604.7	6654.9	6646.0	6584.0	6404.0	6150.2	5949.5	5784.3	5388.8
12.5°	6693.2	6702.1	6737.5	6840.8	6947.0	6961.8	6855.5	6589.9	6371.5	6150.2	5651.5
15°	6852.6	6855.5	6902.7	7026.7	7183.1	7339.5	7313.0	7047.4	6823.1	6578.1	5943.6
17.5°	6976.5	6997.2	7082.8	7227.4	7422.2	7637.6	7767.4	7602.2	7324.8	7044.4	6262.3
20°	7020.8	7035.6	7147.7	7369.0	7634.6	7938.6	8227.8	8183.6	7903.2	7572.7	6622.4
22.5°	7180.2	7180.2	7262.8	7448.7	7761.5	8204.2	8673.4	8788.5	8540.6	8154.0	7009.0
25°	7531.3	7519.5	7557.9	7634.6	7870.7	8416.7	9113.2	9458.4	9181.0	8747.2	7395.6
27.5°	8012.4	8006.5	8003.5	8015.3	8095.0	8602.6	9485.0	10084.1	9806.7	9316.8	7740.9
30°	8534.7	8517.0	8555.4	8520.0	8502.3	8824.0	9800.8	10644.8	10429.4	9880.5	8027.1
32.5°	9246.0	9213.5	9204.6	9089.6	9018.7	9169.2	10054.6	11282.3	11111.1	10488.4	8348.8
35°	10184.4	10154.9	10004.4	9821.4	9611.9	9682.7	10370.4	11905.0	11916.8	11249.8	8770.8
37.5°	11131.8	11137.7	11019.6	10588.7	10373.3	10332.0	10851.4	12663.4	12917.2	12158.8	9316.8
40°	11919.7	11955.1	11955.1	11500.6	11179.0	11140.6	11527.2	13563.5	14068.2	13274.3	10007.4
42.5°	12518.8	12551.3	12654.5	12327.0	11987.6	12120.4	12347.6	14466.6	15372.6	14652.5	10880.9
45°	13176.9	13203.5	13259.5	13070.7	12872.9	13227.1	13277.2	15546.7	16865.8	16198.9	11896.1
47.5°	14050.4	14026.8	14032.7	13894.0	13740.6	14313.1	14301.3	16455.6	18309.0	17892.8	12996.9
50°	15136.5	15180.7	15139.4	14865.0	14684.9	15207.3	15275.2	17462.0	19578.0	19569.1	14106.5
52.5°	16181.2	16198.9	16417.3	16429.1	16060.2	15951.0	16128.1	18477.2	20649.2	21103.7	15171.9
55°	16234.3	16302.2	16957.3	17429.5	18025.6	17149.2	16989.8	19445.2	21685.1	22605.8	16278.6
57.5°	15104.0	15213.2	16325.8	17343.9	19002.5	19206.1	18465.4	20696.4	22720.9	24084.4	17559.4
60°	12690.0	12917.2	14428.2	15986.4	18562.8	20684.6	21484.4	22396.3	24081.4	25595.4	19114.6
62.5°	8103.9	8192.4	10311.3	12920.2	16582.5	20540.0	24772.0	25391.7	26153.1	27563.8	21511.0
65°	4057.8	4341.1	5583.6	7711.4	11958.1	18099.4	26433.5	30877.9	29945.4	30934.0	25394.7
67.5°	2753.4	2844.9	3473.5	4633.3	7011.9	12822.8	25403.5	35499.4	35225.0	35387.3	29535.2
70°	2030.4	2089.4	2585.2	3281.7	4240.8	7280.5	20224.3	35151.2	37025.2	36966.2	29101.3
72.5°	1481.5	1511.0	1885.8	2505.5	3143.0	3765.7	12350.6	28396.0	32321.0	34023.9	25450.8
75°	1077.2	1112.6	1310.3	1874.0	2443.6	2349.1	6097.1	20510.5	24648.0	27923.8	20734.8
77.5°	802.7	847.0	938.5	1174.6	1711.7	1682.2	2635.4	13318.6	15942.1	18238.1	12595.5
80°	578.4	587.3	640.4	752.5	1086.0	985.7	1254.2	6944.1	7962.2	8723.6	4937.3
82.5°	351.2	360.0	427.9	463.3	672.9	619.7	652.2	2248.8	3222.7	3420.4	1844.5
85°	103.3	109.2	194.8	212.5	280.4	265.6	262.7	914.9	1091.9	1395.9	726.0
87.5°	0.0	0.0	0.0	0.0	3.0	17.7	32.5	162.3	244.9	339.4	177.1
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°	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2	4763.2
2.5°	4813.3	4745.5	4710.0	4648.1	4603.8	4559.5	4515.3	4473.9	4456.2	4429.7	4435.6
5°	4898.9	4792.7	4686.4	4565.4	4462.1	4376.6	4299.8	4232.0	4202.4	4175.9	4187.7
7.5°	5028.8	4869.4	4665.8	4444.4	4282.1	4164.1	4084.4	4037.2	4022.4	4001.8	4001.8
10°	5194.0	4955.0	4597.9	4282.1	4087.3	3992.9	3957.5	3954.5	3969.3	3972.3	3966.4
12.5°	5377.0	5037.6	4497.6	4090.3	3925.0	3895.5	3922.1	3972.3	4022.4	4049.0	4043.1
15°	5565.9	5090.7	4326.4	3907.3	3807.0	3845.4	3930.9	4031.3	4128.7	4178.8	4175.9
17.5°	5742.9	5102.5	4105.1	3730.3	3703.7	3801.1	3948.6	4105.1	4237.9	4308.7	4311.6
20°	5940.7	5081.9	3877.8	3570.9	3600.4	3759.8	3954.5	4143.4	4299.8	4370.7	4388.4
22.5°	6120.7	5011.1	3656.5	3420.4	3511.9	3709.6	3907.3	4084.4	4223.1	4291.0	4314.6
25°	6283.0	4875.3	3414.5	3293.5	3444.0	3638.8	3789.3	3913.2	4010.6	4051.9	4084.4
27.5°	6371.5	4671.7	3231.5	3193.1	3379.1	3538.4	3621.1	3659.4	3691.9	3680.1	3703.7
30°	6389.2	4417.9	3072.2	3113.5	3281.7	3399.7	3417.4	3379.1	3323.0	3231.5	3252.2
32.5°	6371.5	4125.7	2939.3	3027.9	3172.5	3243.3	3219.7	3119.4	2983.6	2842.0	2850.8
35°	6377.4	3830.6	2830.2	2933.4	3045.6	3084.0	3024.9	2886.2	2741.6	2611.8	2605.9
37.5°	6442.4	3582.7	2738.7	2842.0	2921.6	2927.5	2862.6	2718.0	2644.2	2546.8	2535.0
40°	6622.4	3399.7	2656.0	2750.5	2800.6	2797.7	2723.9	2620.6	2670.8	2638.3	2629.5
42.5°	6917.5	3287.6	2588.2	2653.1	2688.5	2694.4	2635.4	2570.5	2679.6	2638.3	2623.6
45°	7392.6	3281.7	2540.9	2555.7	2611.8	2653.1	2611.8	2538.0	2579.3	2378.6	2340.3
47.5°	7956.3	3382.0	2505.5	2470.1	2567.5	2641.3	2576.4	2458.3	2372.7	2189.8	2163.2
50°	8635.1	3585.7	2473.1	2378.6	2502.6	2597.0	2532.1	2369.8	2239.9	2142.5	2127.8
52.5°	9440.7	3854.2	2431.8	2275.3	2405.2	2573.4	2532.1	2360.9	2189.8	2101.2	2086.5
55°	10284.8	4164.1	2384.5	2151.4	2296.0	2579.3	2552.7	2298.9	2151.4	2104.2	2092.4
57.5°	11332.4	4535.9	2298.9	2006.8	2198.6	2526.2	2470.1	2263.5	2124.8	2086.5	2074.7
60°	12692.9	5087.8	2136.6	1859.2	2086.5	2431.8	2396.3	2204.5	2054.0	2021.5	2012.7
62.5°	14847.3	6023.3	1938.9	1717.6	1953.7	2234.0	2287.1	2092.4	1965.5	1962.5	1959.6
65°	18359.1	7147.7	1705.8	1590.7	1815.0	2071.7	2142.5	1977.3	1874.0	1906.4	1903.5
67.5°	20820.4	7245.1	1513.9	1457.9	1652.6	1894.6	1997.9	1859.2	1747.1	1809.1	1806.1
70°	19070.4	5651.5	1348.7	1319.2	1478.5	1702.8	1841.5	1711.7	1599.5	1658.5	1646.7
72.5°	16083.8	4332.3	1192.3	1174.6	1301.5	1502.1	1640.8	1564.1	1446.1	1446.1	1419.5
75°	12926.1	3573.8	1027.0	1018.1	1103.7	1298.5	1454.9	1325.1	1215.9	1210.0	1192.3
77.5°	7413.3	2343.2	861.7	855.8	882.4	1086.0	1130.3	1103.7	1021.1	982.7	970.9
80°	2954.1	1218.8	678.8	640.4	667.0	796.8	891.2	847.0	776.2	728.9	702.4
82.5°	1145.0	610.9	478.1	419.1	457.4	575.5	646.3	631.5	584.3	478.1	448.6
85°	466.3	298.1	286.3	242.0	265.6	309.9	371.8	321.7	265.6	188.9	180.0
87.5°	123.9	109.2	106.2	64.9	50.2	14.8	3.0	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)