

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: P643921

Luminaire Tested: GWS-SA6F-830-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-830-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

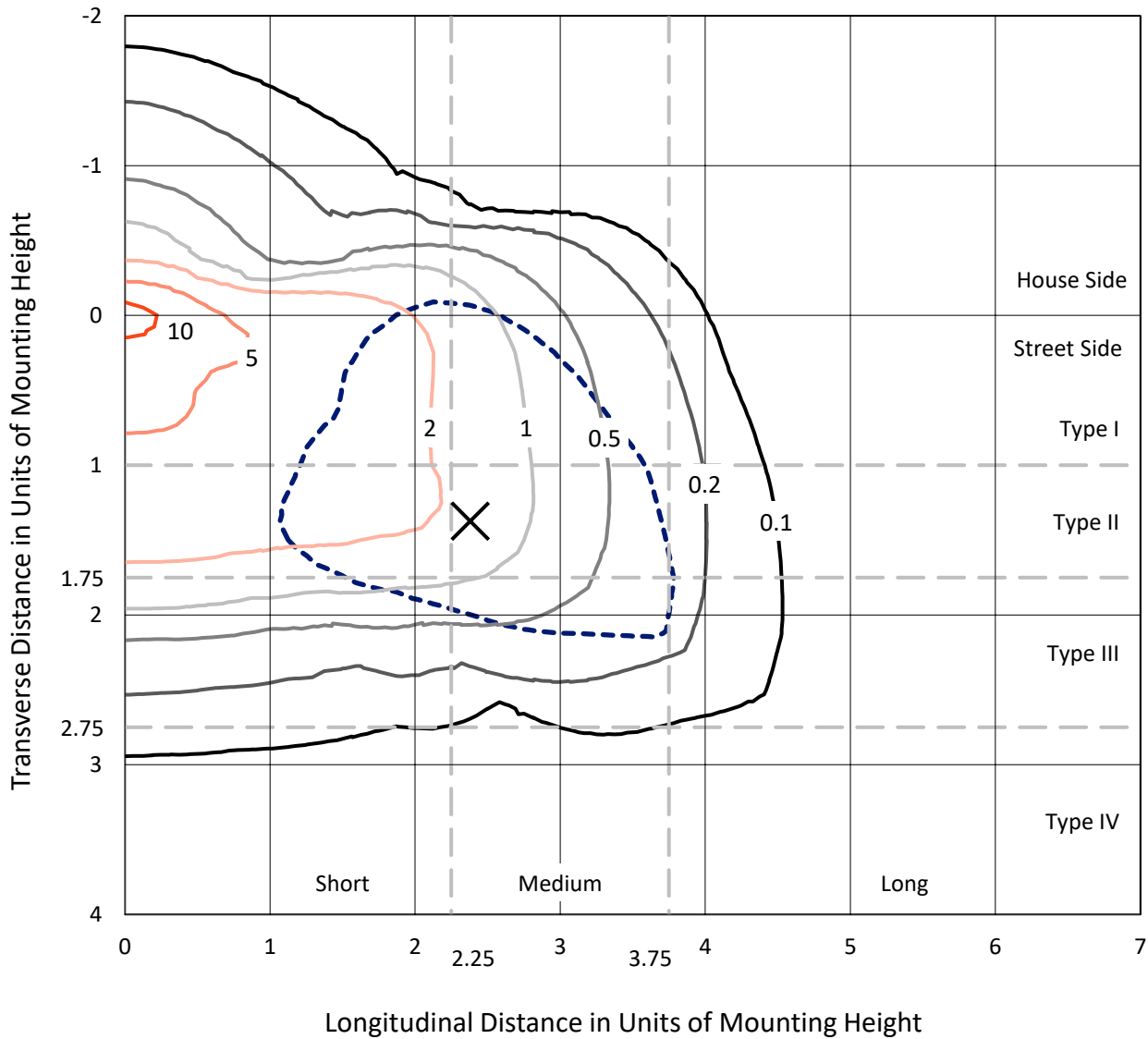
Lumens per Lamp: N/A  
Luminaire Lumens: 38738.9 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

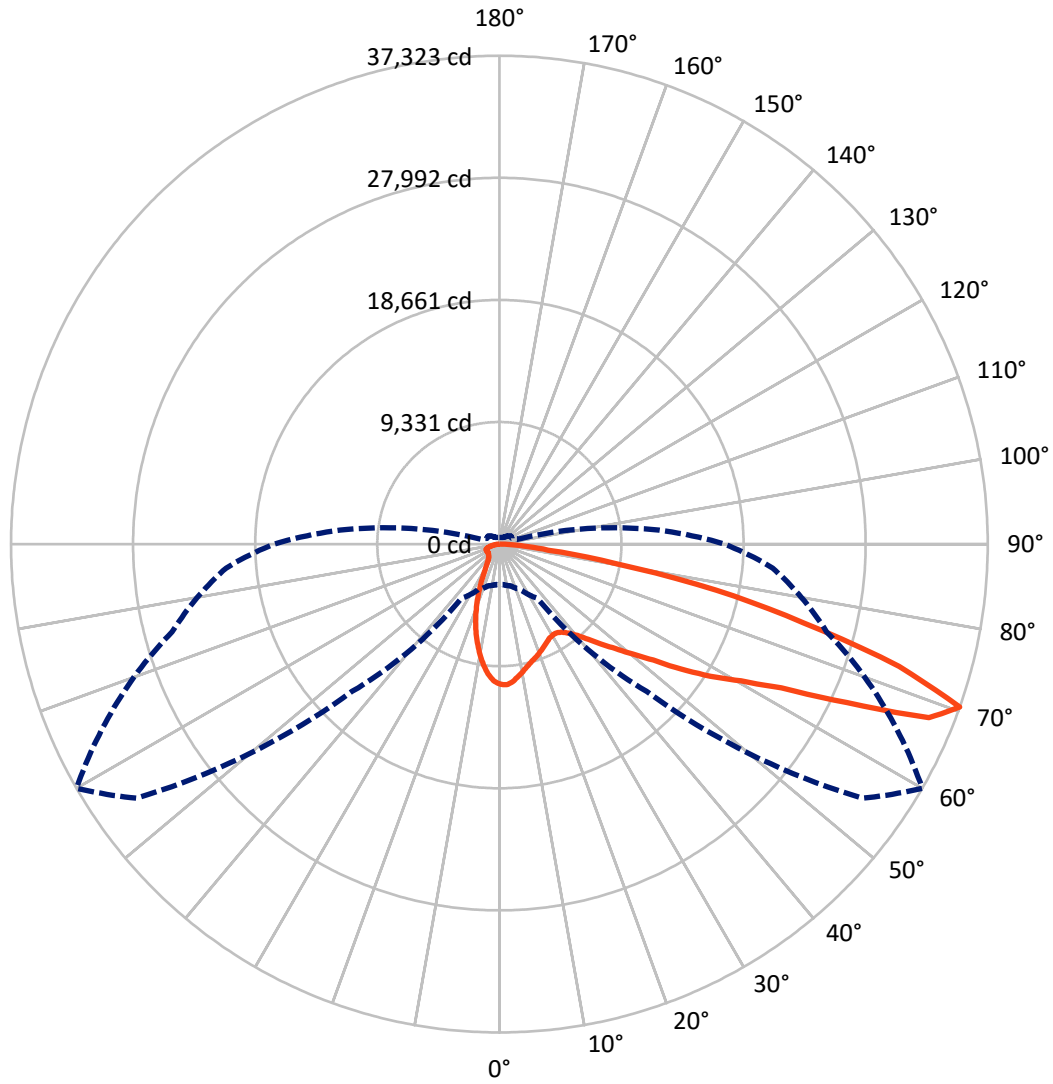
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6625.3	0.0	6625.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	32113.6	0.0	32113.6
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	38738.9	0.0	38738.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	924.0	2.4
10°-20°	2070.0	5.3
20°-30°	2651.0	6.8
30°-40°	3484.1	9.0
40°-50°	5054.8	13.0
50°-60°	7886.7	20.4
60°-70°	10325.2	26.7
70°-80°	5709.5	14.7
80°-90°	633.6	1.6
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°	38738.9	100.0
0°-180°	38738.9	100.0

**Coefficient of Utilization**



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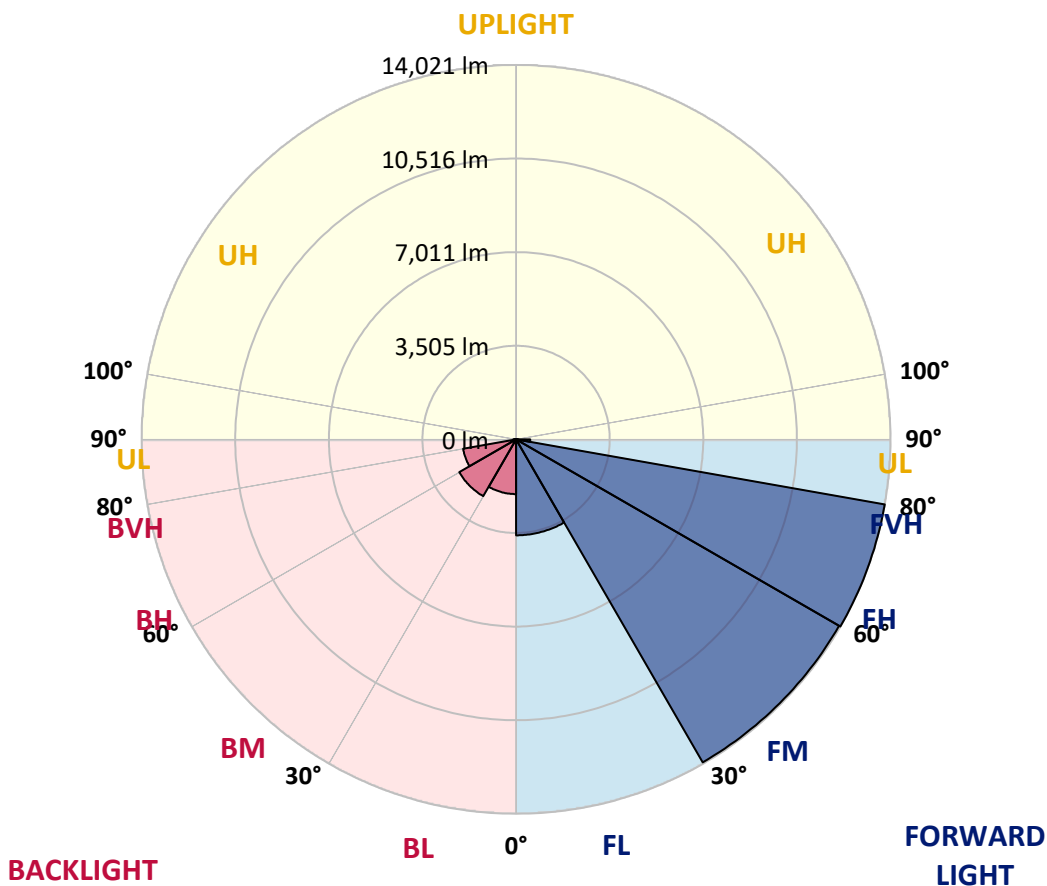
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3595.2	9.3			
FM (30°-60°)	13969.1	36.1			
FH (60°-80°)	14021.3	36.2			G5
FVH (80°-90°)	528.0	1.4			G4/750
BL (0°-30°)	2049.8	5.3	B3/2500		
BM (30°-60°)	2456.4	6.3	B2/2500		
BH (60°-80°)	2013.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	105.6	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°	60°	65°	75°	85°
0°	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6
2.5°	10569.3	10580.7	10611.8	10657.2	10702.5	10725.2	10781.9	10764.9	10753.6	10730.9	10702.5
5°	10101.7	10124.3	10152.7	10240.5	10339.8	10419.1	10546.7	10560.8	10566.5	10577.8	10532.5
7.5°	9506.4	9512.1	9580.1	9696.4	9826.7	9962.8	10175.4	10234.9	10285.9	10342.6	10305.7
10°	8848.9	8863.0	8914.1	9081.3	9305.2	9506.4	9792.7	9891.9	9999.6	10124.3	10073.3
12.5°	8310.3	8313.2	8395.4	8573.9	8817.7	9089.8	9446.9	9566.0	9707.7	9903.3	9857.9
15°	7882.4	7882.4	7958.9	8111.9	8392.5	8712.8	9138.0	9291.0	9483.8	9747.4	9668.0
17.5°	7542.2	7545.1	7593.3	7754.8	8004.2	8358.5	8863.0	9070.0	9282.5	9631.2	9512.1
20°	7363.7	7349.5	7358.0	7457.2	7669.8	8012.7	8588.1	8829.0	9115.3	9551.8	9370.4
22.5°	7355.2	7329.7	7292.8	7301.3	7426.0	7709.5	8293.3	8585.3	8945.2	9486.6	9225.8
25°	7499.7	7471.4	7406.2	7332.5	7321.2	7491.2	8015.6	8347.2	8769.5	9458.3	9087.0
27.5°	7743.5	7723.6	7638.6	7528.1	7411.9	7406.2	7805.8	8151.6	8642.0	9486.6	8987.8
30°	8066.6	8032.6	7978.7	7837.0	7661.3	7479.9	7723.6	8046.8	8556.9	9577.3	8945.2
32.5°	8432.2	8412.4	8361.4	8219.6	8032.6	7743.5	7788.8	8069.4	8556.9	9736.0	8953.7
35°	8820.5	8817.7	8817.7	8724.2	8517.3	8157.3	8046.8	8262.2	8687.3	9991.1	9044.4
37.5°	9197.5	9194.7	9285.4	9319.4	9084.1	8695.8	8486.1	8647.6	8973.6	10368.1	9268.4
40°	9503.6	9515.0	9713.4	9883.4	9753.0	9393.1	9098.3	9180.5	9438.4	10903.8	9659.5
42.5°	9812.6	9843.7	10141.3	10441.8	10492.8	10181.0	9883.4	9931.6	10104.5	11612.4	10243.4
45°	10149.8	10164.0	10580.7	11000.2	11246.7	11062.5	10818.8	10883.9	10923.6	12488.2	11113.5
47.5°	10475.8	10512.6	11051.2	11626.6	12094.2	12077.2	11941.2	11921.3	11929.8	13553.9	12142.4
50°	10920.8	10974.6	11606.7	12301.1	12987.0	13301.7	13341.3	13191.1	13128.8	14738.7	13423.5
52.5°	11765.4	11765.4	12332.3	13015.4	13936.6	14716.0	14982.4	14735.8	14537.4	15991.5	14784.0
55°	12822.7	12868.0	13318.7	13871.4	15039.1	16204.0	17105.4	16833.3	16272.1	17354.8	16209.7
57.5°	13293.2	13349.8	14064.1	14922.9	16481.8	17896.2	19146.1	19049.7	18230.6	18772.0	17689.2
60°	12442.8	12561.9	13545.4	14985.3	17788.5	20625.6	21507.1	21226.5	20055.9	20260.0	19293.5
62.5°	10379.4	10509.8	11601.0	13610.6	17607.1	23576.2	25228.7	24194.1	22334.8	22139.2	21430.6
65°	6193.1	6187.4	7499.7	10164.0	15370.7	24395.3	31118.5	29188.3	25855.0	24718.5	23630.1
67.5°	3936.9	3928.4	4203.4	5385.3	10229.2	22388.6	34905.2	35406.8	30636.6	26614.7	23811.5
70°	3106.5	3103.6	3302.0	3840.6	5059.3	15931.9	33850.8	37322.9	33524.8	25891.9	20965.8
72.5°	2264.7	2270.3	2576.4	3217.0	3902.9	7998.6	27411.1	31934.8	30835.0	22856.3	17020.3
75°	1626.9	1635.4	1819.7	2463.1	3599.6	4373.4	18227.8	24012.7	23460.0	18321.3	11708.7
77.5°	1034.5	1045.9	1207.4	1726.1	2908.1	3531.6	11051.2	16952.3	15608.8	10322.7	4163.7
80°	632.1	668.9	805.0	1286.8	2324.2	2650.1	5524.2	8931.1	7817.2	2831.5	1400.2
82.5°	326.0	354.3	484.7	796.5	1601.4	2327.0	3126.3	3752.7	2420.5	1184.8	745.4
85°	102.0	119.0	170.1	323.1	762.4	1442.7	2069.1	1865.0	1111.1	558.4	345.8
87.5°	25.5	25.5	28.3	28.3	31.2	65.2	399.6	422.3	294.8	175.7	141.7
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°	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6	10719.6
2.5°	10645.9	10577.8	10549.5	10546.7	10475.8	10373.8	10305.7	10257.6	10229.2	10223.5	10223.5
5°	10456.0	10368.1	10251.9	10164.0	9974.1	9781.4	9619.8	9529.1	9424.3	9410.1	9407.2
7.5°	10203.7	10076.2	9855.1	9608.5	9276.9	8956.6	8684.5	8500.2	8316.0	8282.0	8270.7
10°	9931.6	9758.7	9381.7	8948.1	8452.1	7973.1	7556.4	7230.5	7015.0	6862.0	6833.6
12.5°	9662.3	9432.8	8880.1	8233.8	7553.6	6898.8	6272.4	5739.6	5354.1	5130.2	5090.5
15°	9410.1	9089.8	8333.0	7508.2	6623.9	5728.2	4841.1	4149.5	3608.1	3415.4	3370.1
17.5°	9180.5	8780.9	7803.0	6757.1	5654.6	4484.0	3474.9	2859.9	2542.4	2446.1	2423.4
20°	8950.9	8463.4	7264.5	5966.3	4625.7	3313.4	2539.6	2250.5	2131.4	2094.6	2083.3
22.5°	8704.3	8114.8	6677.8	5186.9	3585.5	2480.1	2077.6	1950.0	1913.2	1916.0	1913.2
25°	8457.7	7760.5	6062.7	4339.4	2670.0	2012.4	1814.0	1765.8	1774.3	1799.8	1805.5
27.5°	8253.7	7445.9	5459.0	3409.7	2086.1	1731.8	1638.3	1635.4	1666.6	1700.6	1706.3
30°	8106.3	7165.3	4863.8	2621.8	1717.6	1539.1	1502.2	1519.2	1556.1	1581.6	1590.1
32.5°	8001.4	6924.3	4228.9	2060.6	1505.0	1403.0	1386.0	1403.0	1425.7	1451.2	1456.9
35°	7964.6	6748.6	3605.3	1680.8	1360.5	1303.8	1292.5	1301.0	1312.3	1326.5	1332.1
37.5°	8046.8	6660.7	2953.4	1462.5	1272.6	1238.6	1221.6	1215.9	1218.8	1224.4	1227.3
40°	8290.5	6700.4	2420.5	1335.0	1215.9	1184.8	1156.4	1145.1	1142.2	1147.9	1145.1
42.5°	8710.0	6867.7	2035.1	1261.3	1170.6	1125.2	1094.1	1082.7	1082.7	1096.9	1096.9
45°	9325.0	7196.4	1757.3	1207.4	1130.9	1074.2	1040.2	1034.5	1045.9	1068.6	1071.4
47.5°	10226.4	7678.3	1590.1	1167.8	1094.1	1028.9	994.9	992.0	1014.7	1051.5	1054.4
50°	11294.9	8372.7	1499.4	1139.4	1068.6	992.0	958.0	960.8	986.4	1026.0	1034.5
52.5°	12581.7	9319.4	1505.0	1128.1	1054.4	969.4	935.3	929.7	955.2	994.9	1003.4
55°	13911.0	10470.1	1615.6	1130.9	1034.5	958.0	912.7	892.8	915.5	943.8	946.7
57.5°	15373.6	11768.3	1890.5	1125.2	1009.0	946.7	892.8	847.5	861.6	878.7	887.2
60°	17023.2	13296.0	2482.9	1136.6	997.7	921.2	853.1	793.6	790.8	802.1	805.0
62.5°	19228.3	15373.6	3149.0	1156.4	1023.2	890.0	793.6	731.3	719.9	725.6	728.4
65°	20914.8	16365.6	2939.2	1139.4	1077.1	867.3	736.9	671.7	649.1	643.4	643.4
67.5°	20228.8	15053.3	2046.4	1094.1	1102.6	870.1	691.6	609.4	581.0	566.9	564.0
70°	17213.1	12227.4	1422.8	1048.7	1074.2	864.5	643.4	558.4	521.5	501.7	498.8
72.5°	13599.3	9336.4	1150.8	958.0	975.0	779.4	572.5	501.7	470.5	445.0	445.0
75°	8752.5	5697.1	960.8	853.1	796.5	606.6	496.0	447.8	416.7	391.1	391.1
77.5°	2944.9	2114.4	745.4	722.8	595.2	456.3	416.7	385.5	360.0	337.3	334.5
80°	1196.1	1003.4	547.0	547.0	416.7	348.6	326.0	311.8	294.8	266.4	266.4
82.5°	694.4	609.4	382.6	331.6	277.8	240.9	226.7	212.6	212.6	192.7	192.7
85°	334.5	337.3	229.6	204.1	158.7	138.9	133.2	124.7	121.9	110.5	107.7
87.5°	181.4	184.2	116.2	90.7	62.4	53.9	45.3	42.5	39.7	36.8	36.8
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)