

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: P642218

Luminaire Tested: GWS-SA6C-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

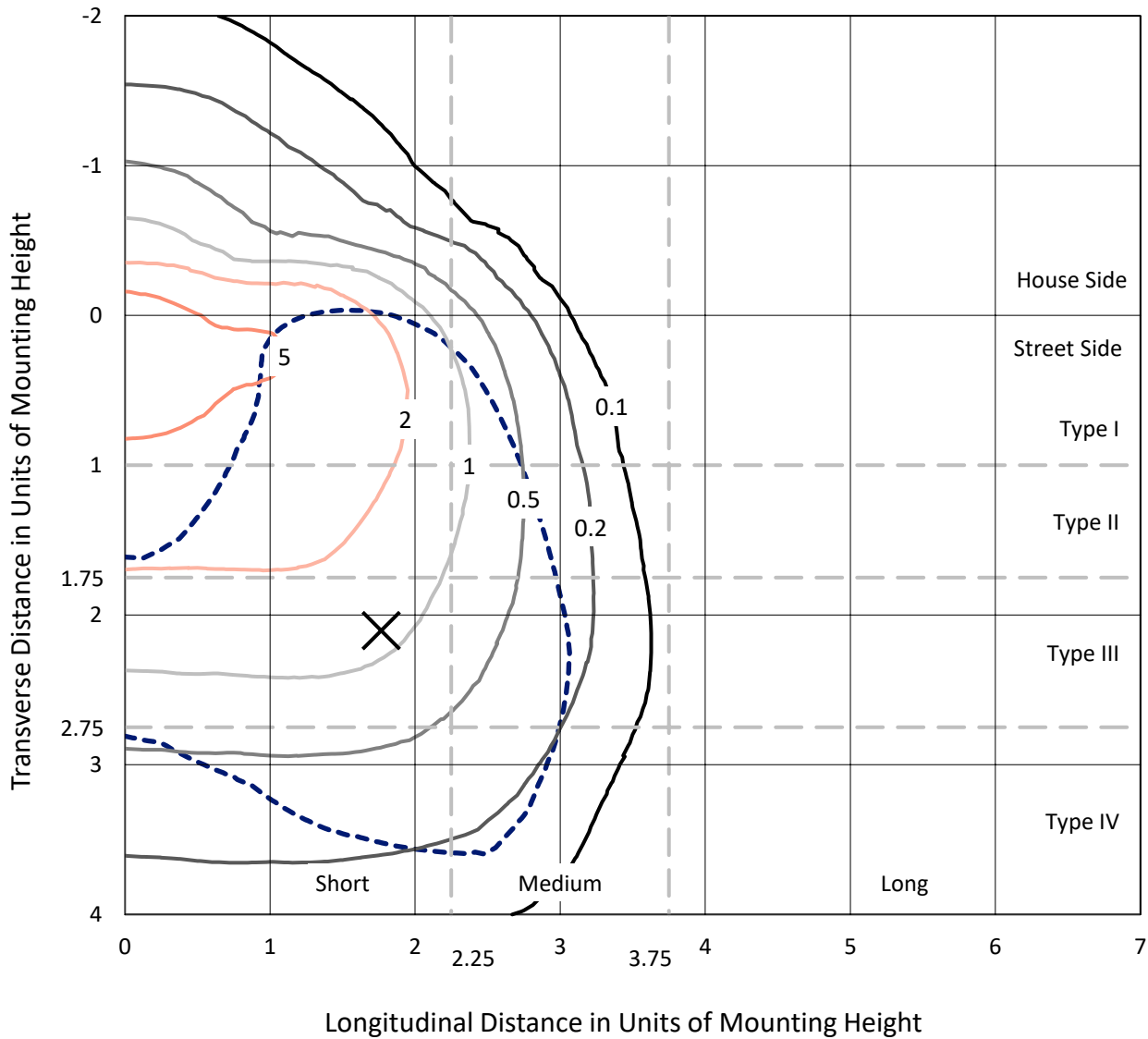
Lumens per Lamp: N/A  
Luminaire Lumens: 27270.1 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

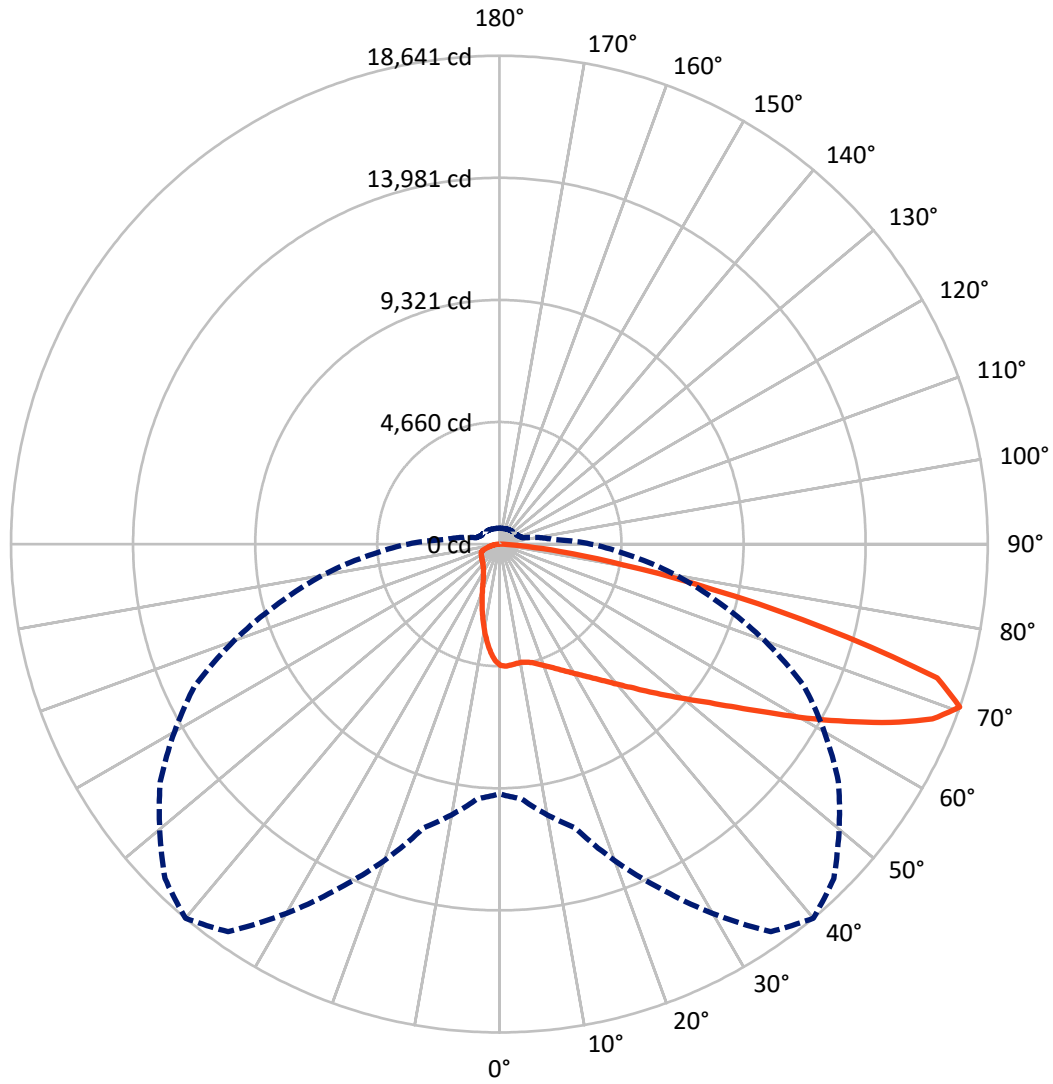
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4200.3	0.0	4200.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	23069.8	0.0	23069.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	27270.1	0.0	27270.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.1	1.5
10°-20°	1066.3	3.9
20°-30°	1674.3	6.1
30°-40°	2517.4	9.2
40°-50°	3885.7	14.2
50°-60°	5770.5	21.2
60°-70°	7273.7	26.7
70°-80°	4206.3	15.4
80°-90°	466.8	1.7
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°	27270.1	100.0
0°-180°	27270.1	100.0

**Coefficient of Utilization**



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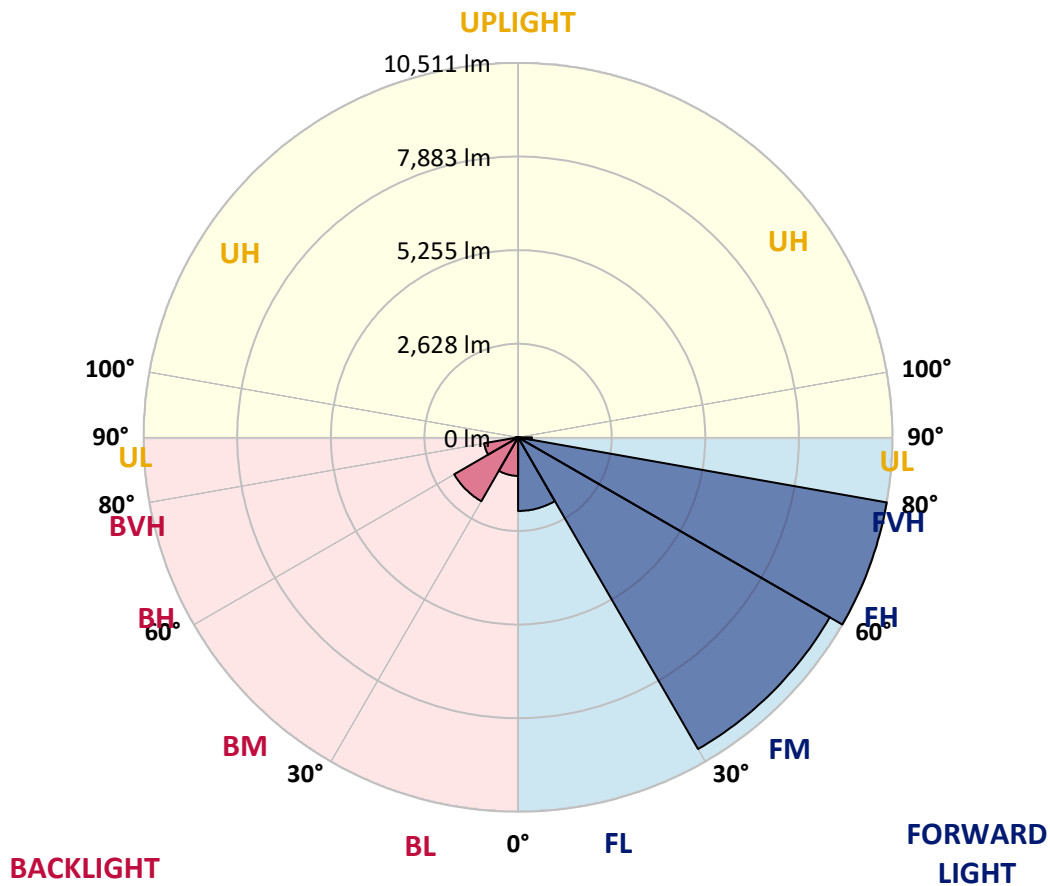
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.3	7.6			
FM (30°-60°)	10103.2	37.0			
FH (60°-80°)	10510.5	38.5			G4/12000
FVH (80°-90°)	388.8	1.4			G3/500
BL (0°-30°)	1082.5	4.0	B3/2500		
BM (30°-60°)	2070.4	7.6	B2/2500		
BH (60°-80°)	969.4	3.6	B2/1000		G2/1000
BVH (80°-90°)	78.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8
2.5°	4659.3	4667.4	4673.5	4681.7	4677.6	4665.4	4675.6	4675.6	4653.2	4628.7	4606.3
5°	4665.4	4675.6	4673.5	4671.5	4655.2	4634.8	4634.8	4622.6	4584.0	4545.3	4508.6
7.5°	4653.2	4651.1	4649.1	4643.0	4624.7	4602.3	4598.2	4573.8	4522.9	4470.0	4417.0
10°	4598.2	4596.2	4602.3	4616.5	4612.5	4592.1	4592.1	4569.7	4510.7	4445.5	4376.3
12.5°	4553.4	4553.4	4577.9	4616.5	4630.8	4622.6	4624.7	4608.4	4541.2	4463.9	4382.4
15°	4559.5	4561.6	4614.5	4677.6	4704.1	4697.9	4700.0	4681.7	4606.3	4529.0	4419.1
17.5°	4600.2	4610.4	4702.0	4789.5	4824.1	4816.0	4801.8	4771.2	4685.7	4598.2	4463.9
20°	4685.7	4702.0	4820.1	4930.0	4970.7	4952.4	4928.0	4866.9	4773.3	4677.6	4512.7
22.5°	4854.7	4864.9	4995.1	5103.0	5135.6	5113.2	5064.3	4976.8	4868.9	4769.2	4571.7
25°	5092.8	5105.0	5229.2	5329.0	5320.8	5294.4	5227.2	5119.3	4991.1	4885.2	4657.2
27.5°	5375.8	5396.1	5518.3	5597.6	5544.7	5506.0	5430.7	5300.5	5155.9	5060.3	4787.5
30°	5685.2	5693.3	5797.1	5876.5	5795.1	5742.2	5650.6	5510.1	5379.8	5308.6	4982.9
32.5°	5984.4	5992.5	6082.1	6126.9	6041.4	6002.7	5923.3	5774.7	5683.1	5644.5	5274.0
35°	6299.9	6297.9	6371.1	6409.8	6322.3	6306.0	6224.6	6110.6	6094.3	6145.2	5699.4
37.5°	6615.4	6597.1	6635.7	6686.6	6637.8	6654.1	6601.1	6562.5	6625.6	6757.9	6265.3
40°	6867.8	6867.8	6908.5	6971.6	6987.9	7059.1	7028.6	7079.5	7283.0	7598.5	6965.5
42.5°	7091.7	7093.7	7179.2	7276.9	7395.0	7504.9	7529.3	7661.6	8083.0	8577.6	7844.8
45°	7325.8	7327.8	7443.8	7586.3	7836.7	8046.4	8095.2	8392.4	8994.9	9597.4	8799.5
47.5°	7596.5	7574.1	7734.9	7973.1	8329.3	8630.5	8756.7	9178.1	9939.4	10680.3	9699.2
50°	7901.8	7855.0	8034.1	8445.3	8885.0	9298.2	9509.9	9992.3	10953.1	11679.7	10546.0
52.5°	8245.8	8219.4	8406.6	8907.4	9579.1	10055.4	10342.4	10975.4	11938.2	12675.1	11217.7
55°	8673.3	8610.2	8880.9	9518.0	10393.3	10999.9	11339.8	11948.4	13015.0	13578.9	11730.6
57.5°	9141.5	9072.2	9434.6	10281.3	11451.8	12117.4	12542.8	13043.5	14028.7	14270.9	12031.9
60°	9646.3	9623.9	10053.4	11177.0	12713.8	13487.3	13794.6	14248.5	14910.1	14671.9	11956.6
62.5°	10108.3	10100.2	10725.1	12147.9	14051.1	14901.9	15146.2	15266.3	15545.2	14645.5	11358.1
65°	10594.8	10664.0	11508.7	13273.5	15583.8	16418.4	16520.2	16214.8	15758.9	13951.4	10132.7
67.5°	10655.9	10790.2	12001.3	14327.9	17037.2	17824.9	17743.5	16575.1	15127.9	12019.7	7942.5
70°	9530.2	9764.3	11215.6	14488.7	18061.0	18641.2	18052.9	15799.6	12837.9	8707.9	4995.1
72.5°	7962.9	8164.4	9446.8	12355.5	16740.0	17478.9	16683.0	13373.3	9072.2	4995.1	2544.4
75°	6198.1	6432.2	7614.8	9821.3	12532.6	12827.8	12428.8	9326.7	4987.0	2059.9	1156.2
77.5°	3782.0	3950.9	4871.0	6654.1	8769.0	8327.3	7057.1	5229.2	2188.2	987.2	714.5
80°	1673.2	1777.0	2399.9	3574.3	5066.4	4789.5	3775.9	2232.9	1196.9	626.9	498.7
82.5°	897.7	964.8	1182.6	1414.7	2224.8	2326.6	1886.9	1286.4	643.2	358.2	285.0
85°	394.9	433.6	537.4	512.9	730.7	718.5	724.6	883.4	307.4	164.9	185.2
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	22.4	118.1	30.5	48.9	42.7
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°	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8	4630.8
2.5°	4581.9	4545.3	4535.1	4522.9	4500.5	4461.8	4433.3	4400.8	4386.5	4370.2	4372.3
5°	4467.9	4423.2	4380.4	4325.4	4256.2	4178.9	4126.0	4064.9	4032.3	4001.8	4009.9
7.5°	4370.2	4301.0	4213.5	4097.5	3973.3	3834.9	3722.9	3635.4	3576.4	3535.7	3556.0
10°	4309.2	4227.7	4075.1	3885.8	3676.1	3464.4	3303.6	3153.0	3059.4	2986.1	2982.0
12.5°	4297.0	4191.1	3969.2	3694.4	3391.2	3108.2	2872.1	2668.5	2544.4	2452.8	2487.4
15°	4309.2	4174.8	3877.6	3517.4	3134.7	2752.0	2458.9	2224.8	2076.2	1992.8	1986.7
17.5°	4323.4	4158.5	3773.8	3326.0	2866.0	2428.4	2088.4	1840.1	1687.4	1604.0	1606.0
20°	4335.6	4134.1	3651.7	3116.4	2593.2	2127.1	1775.0	1538.8	1402.5	1341.4	1351.6
22.5°	4356.0	4109.7	3521.4	2892.5	2314.4	1836.0	1526.6	1335.3	1253.9	1213.2	1215.2
25°	4394.7	4095.4	3387.1	2648.2	2039.6	1604.0	1355.6	1227.4	1176.5	1152.1	1150.1
27.5°	4474.0	4107.7	3246.6	2412.1	1791.2	1426.9	1245.7	1162.3	1127.7	1111.4	1109.4
30°	4606.3	4156.5	3124.5	2171.9	1577.5	1288.5	1170.4	1119.5	1099.2	1084.9	1082.9
32.5°	4807.9	4248.1	2992.2	1948.0	1404.5	1186.7	1111.4	1084.9	1070.7	1062.5	1062.5
35°	5113.2	4415.0	2861.9	1752.6	1270.2	1107.3	1064.6	1054.4	1042.2	1038.1	1042.2
37.5°	5552.9	4681.7	2743.9	1581.6	1174.5	1046.2	1013.7	1017.8	1007.6	1013.7	1019.8
40°	6110.6	5037.9	2644.1	1441.1	1103.2	1001.5	968.9	983.1	977.0	983.1	993.3
42.5°	6816.9	5479.6	2568.8	1331.2	1052.4	964.8	934.3	948.5	944.5	952.6	962.8
45°	7604.6	6061.7	2534.2	1253.9	1015.7	938.4	905.8	916.0	911.9	918.0	928.2
47.5°	8359.8	6591.0	2564.7	1209.1	985.2	916.0	881.4	885.4	883.4	881.4	887.5
50°	9011.2	7012.3	2652.3	1194.8	964.8	893.6	861.0	863.1	856.9	844.7	848.8
52.5°	9542.5	7350.2	2705.2	1194.8	954.7	869.2	838.6	840.7	828.5	812.2	814.2
55°	9892.6	7486.6	2662.4	1192.8	950.6	848.8	816.2	818.3	806.1	785.7	787.7
57.5°	9992.3	7354.3	2483.3	1170.4	946.5	832.5	793.8	797.9	789.8	767.4	767.4
60°	9713.4	6869.8	2155.6	1119.5	936.3	822.3	777.6	783.7	779.6	757.2	757.2
62.5°	8982.7	6008.8	1764.8	1042.2	907.8	810.1	763.3	775.5	785.7	773.5	771.5
65°	7614.8	4814.0	1435.0	956.7	871.2	789.8	743.0	773.5	795.9	812.2	812.2
67.5°	5713.7	3446.1	1170.4	867.1	816.2	749.1	716.5	745.0	761.3	771.5	777.6
70°	3482.8	2027.4	922.1	763.3	736.9	688.0	663.6	635.1	612.7	608.6	610.7
72.5°	1703.7	1160.2	749.1	649.3	629.0	584.2	529.2	517.0	506.8	500.7	498.7
75°	938.4	808.1	618.8	539.4	502.8	447.8	435.6	415.2	411.2	403.0	405.1
77.5°	663.6	637.1	510.9	437.6	382.7	354.2	360.3	346.0	346.0	339.9	337.9
80°	498.7	500.7	392.9	319.6	282.9	272.8	278.9	278.9	274.8	272.8	270.7
82.5°	315.5	356.2	264.6	205.6	201.5	203.6	201.5	199.5	203.6	197.4	195.4
85°	217.8	256.5	160.8	122.1	122.1	120.1	124.2	122.1	126.2	120.1	120.1
87.5°	48.9	114.0	59.0	36.6	38.7	36.6	38.7	40.7	44.8	46.8	46.8
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)