

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: P643807

Luminaire Tested: GWS-SA6F-760-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-760-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

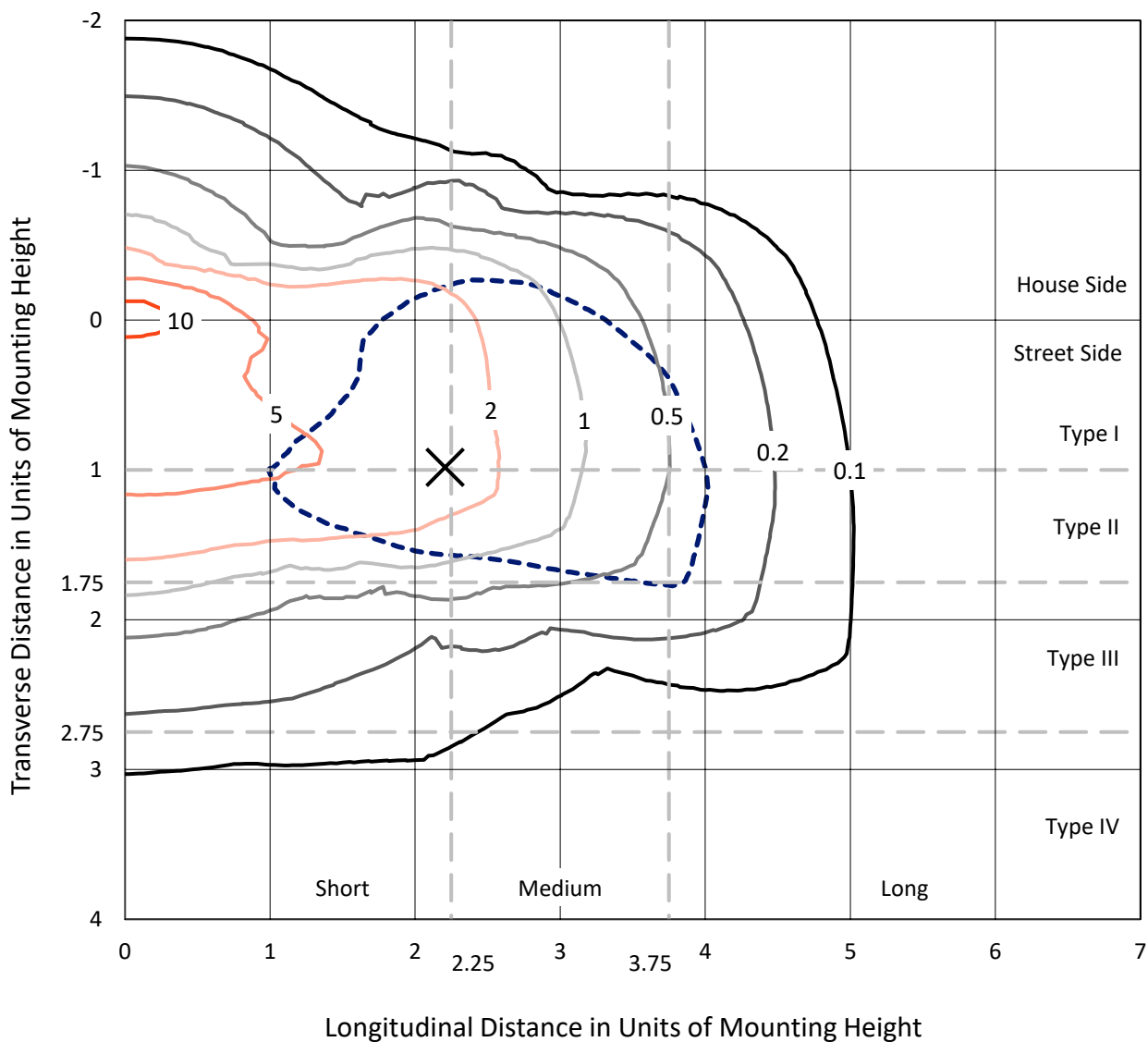
Lumens per Lamp: N/A  
Luminaire Lumens: 49343.5 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

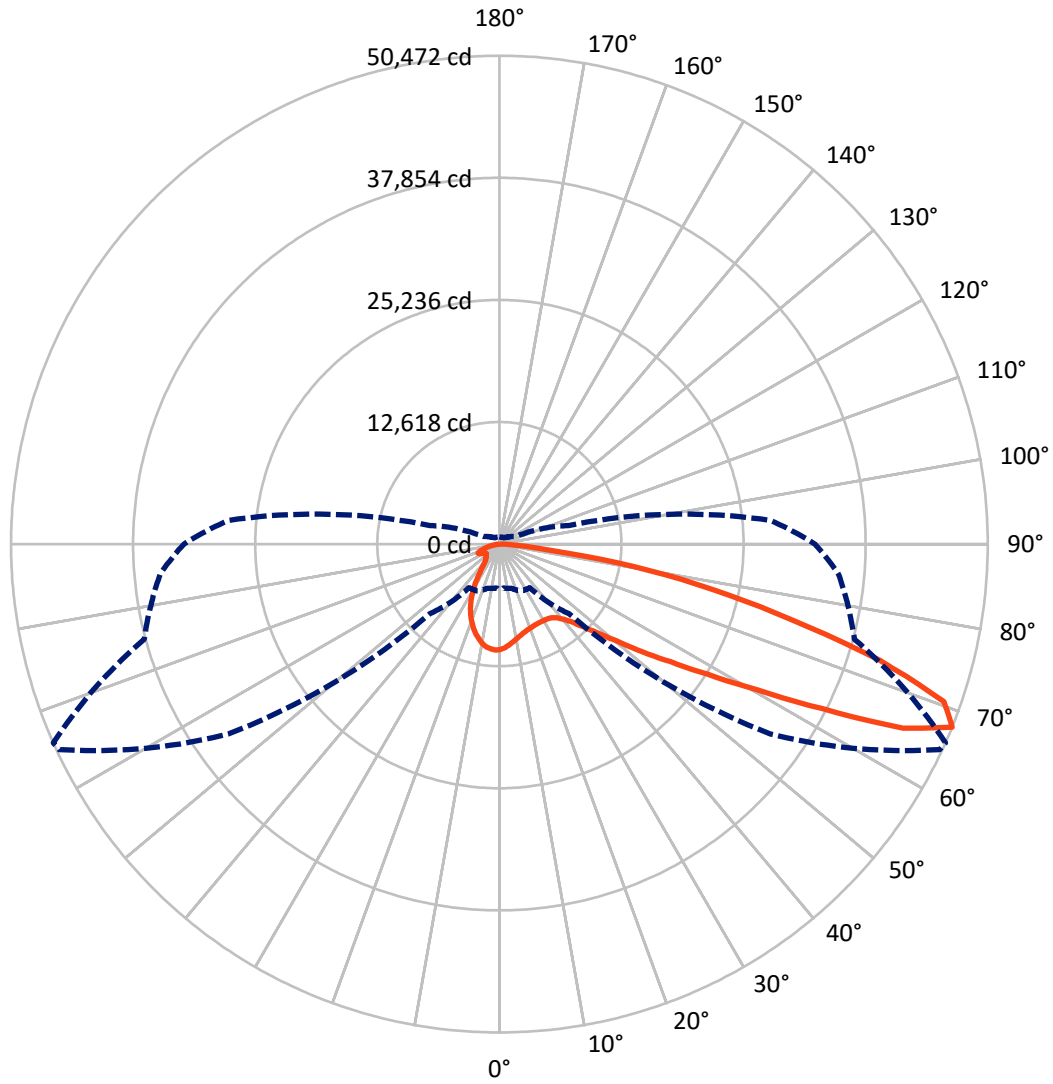
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10012.9	0.0	10012.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	39330.6	0.0	39330.6
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	49343.5	0.0	49343.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	956.9	1.9
10°-20°	2351.8	4.8
20°-30°	3232.5	6.6
30°-40°	4419.4	9.0
40°-50°	6696.6	13.6
50°-60°	10410.0	21.1
60°-70°	12674.0	25.7
70°-80°	7720.4	15.6
80°-90°	881.9	1.8
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°	49343.5	100.0
0°-180°	49343.5	100.0

**Coefficient of Utilization**



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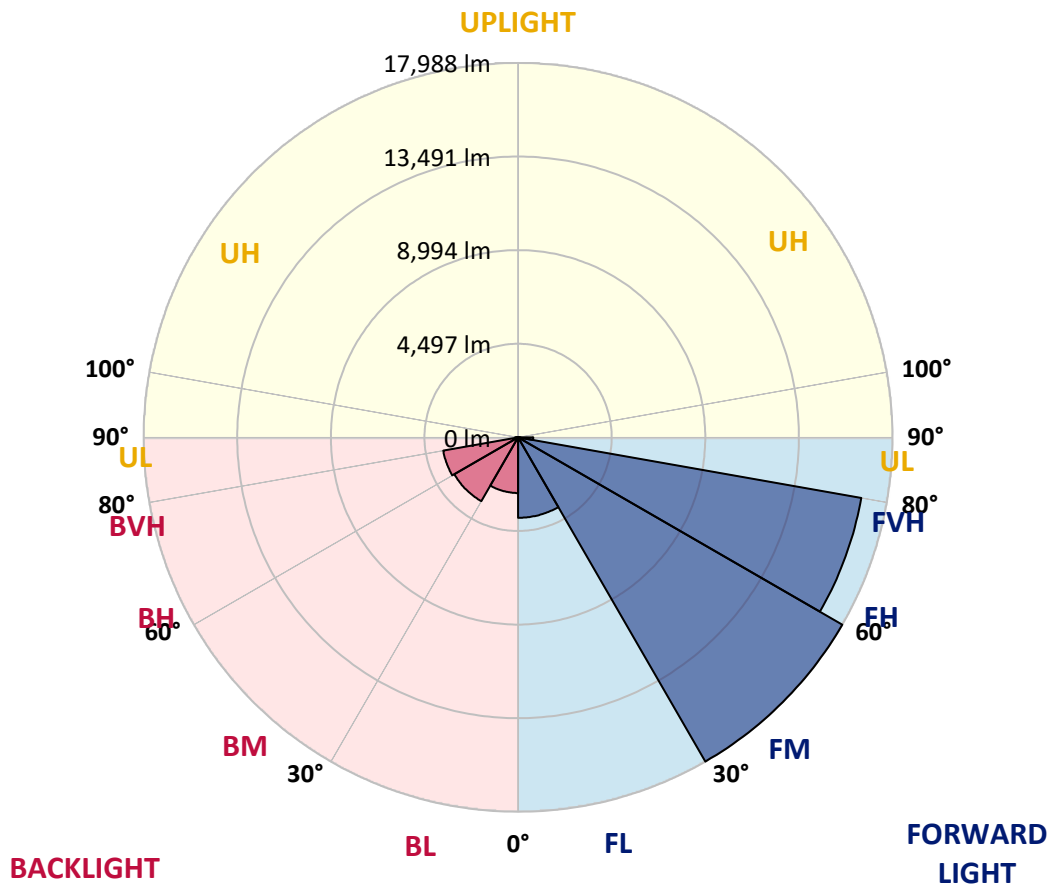
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3866.3	7.8			
FM (30°-60°)	17987.6	36.5			
FH (60°-80°)	16743.5	33.9			G5
FVH (80°-90°)	733.2	1.5			G4/750
BL (0°-30°)	2674.9	5.4	B4/5000		
BM (30°-60°)	3538.5	7.2	B3/5000		
BH (60°-80°)	3650.9	7.4	B4/5000		G4/5000
BVH (80°-90°)	148.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5
2.5°	10212.4	10248.4	10226.8	10363.6	10370.8	10543.5	10640.7	10723.5	10730.7	10838.7	10910.7
5°	9514.0	9535.6	9535.6	9665.2	9751.6	9982.0	10205.2	10442.8	10460.7	10719.9	10917.9
7.5°	8948.9	8970.5	8956.1	9128.9	9240.4	9496.0	9780.4	10144.0	10180.0	10597.5	10943.1
10°	8506.1	8498.9	8534.9	8693.3	8837.3	9143.3	9460.0	9874.0	9928.0	10457.1	10971.9
12.5°	8203.7	8210.9	8232.5	8398.1	8552.9	8855.3	9182.9	9632.8	9690.4	10295.2	10957.5
15°	8059.7	8045.3	8063.3	8214.5	8362.1	8628.5	8966.9	9431.2	9488.8	10151.2	10961.1
17.5°	8027.3	8016.5	8012.9	8120.9	8232.5	8480.9	8804.9	9276.4	9337.6	10057.6	10982.7
20°	8128.1	8113.7	8074.1	8120.9	8167.7	8376.5	8689.7	9164.9	9233.2	9996.4	11025.9
22.5°	8405.3	8380.1	8318.9	8261.3	8200.1	8326.1	8617.7	9082.1	9150.5	9956.8	11069.1
25°	8826.5	8804.9	8740.1	8610.5	8387.3	8365.7	8603.3	9046.1	9114.5	9928.0	11087.1
27.5°	9406.0	9373.6	9308.8	9121.7	8758.1	8513.3	8657.3	9042.5	9107.3	9895.6	11069.1
30°	10093.6	10072.0	10036.0	9809.2	9323.2	8826.5	8779.7	9071.3	9121.7	9877.6	11033.1
32.5°	10791.9	10770.3	10799.1	10691.1	10093.6	9344.8	9046.1	9150.5	9186.5	9874.0	11000.7
35°	11407.5	11432.7	11641.5	11659.5	11072.7	10046.8	9467.2	9334.0	9341.2	9946.0	11015.1
37.5°	12051.8	12149.0	12422.6	12656.6	12167.0	10975.5	10093.6	9679.6	9672.4	10129.6	11105.1
40°	12904.9	12948.1	13297.3	13736.5	13430.5	12249.8	10982.7	10244.8	10194.4	10503.9	11346.3
42.5°	13736.5	13840.9	14398.8	14902.8	14802.0	13686.1	12102.2	11090.7	11000.7	11166.3	11843.0
45°	14794.8	14895.6	15521.9	16169.9	16353.5	15309.6	13534.9	12293.0	12203.0	12163.4	12753.8
47.5°	15853.1	15957.5	16519.1	17455.0	18099.3	17339.8	15399.5	13880.5	13732.9	13578.1	14128.9
50°	16565.9	16688.2	17224.6	18347.7	19859.6	19874.0	17609.8	15961.1	15773.9	15529.1	16065.5
52.5°	16540.7	16619.8	17131.0	18426.9	21126.7	22786.1	20568.7	18610.5	18459.3	17926.5	18394.5
55°	15241.2	15359.9	15874.7	17494.6	21263.5	25547.1	24917.2	21735.0	21465.1	20511.1	21025.9
57.5°	12631.4	12732.2	13250.5	15248.4	20050.4	26961.8	30439.1	25716.3	25345.5	23326.1	23920.1
60°	9535.6	9413.2	9658.0	11407.5	17149.0	26997.8	35313.1	31115.9	30496.7	26335.5	26832.2
62.5°	7156.2	7033.8	7087.8	7581.0	11627.1	24816.4	38092.1	38502.5	37480.1	29733.6	29636.4
65°	5655.1	5586.7	5741.5	6079.9	6778.2	18898.5	38113.7	46490.2	45845.9	33671.7	32512.6
67.5°	4607.6	4564.4	4722.8	5349.2	5496.8	10154.8	34175.6	50219.5	50471.5	37984.1	35179.9
70°	3711.3	3646.5	3894.9	4719.2	5111.6	6144.7	24481.6	48318.9	48725.6	40554.3	34427.6
72.5°	2563.0	2566.6	2692.6	3822.9	4935.2	5306.0	13848.1	40233.9	41115.9	38225.3	30266.3
75°	1727.9	1742.3	1778.3	2523.4	4546.4	5147.6	7379.4	30460.7	31083.5	31594.6	25018.0
77.5°	1043.9	1051.1	1133.9	1526.3	3135.3	4805.6	5000.0	22080.6	22570.2	20827.9	15507.5
80°	604.8	629.9	705.5	1022.3	2116.6	3610.5	3869.7	13538.5	14092.9	9258.4	4928.0
82.5°	266.4	284.4	385.2	594.0	1234.7	3070.6	3020.2	5349.2	5270.0	2581.0	1709.9
85°	46.8	57.6	82.8	187.2	453.6	1619.9	2343.4	2361.4	2221.0	979.1	709.1
87.5°	0.0	0.0	0.0	0.0	0.0	10.8	352.8	633.5	629.9	277.2	244.8
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°	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5	10903.5
2.5°	10957.5	10860.3	10946.7	10957.5	10939.5	10925.1	10817.1	10723.5	10712.7	10611.9	10611.9
5°	10997.1	10907.1	10950.3	10867.5	10737.9	10604.7	10374.4	10216.0	10144.0	10014.4	10014.4
7.5°	11051.1	10957.5	10907.1	10701.9	10399.6	10108.0	9737.2	9427.6	9301.6	9118.1	9110.9
10°	11101.5	10982.7	10809.9	10410.4	9928.0	9463.6	8923.7	8484.5	8185.7	7966.2	7966.2
12.5°	11097.9	10943.1	10601.1	10010.8	9344.8	8671.7	7951.8	7289.4	6893.4	6551.5	6529.9
15°	11090.7	10878.3	10334.8	9546.4	8664.5	7732.2	6753.1	5889.1	5302.4	4967.6	4938.8
17.5°	11083.5	10795.5	10036.0	9017.3	7836.6	6565.9	5273.6	4337.6	3848.1	3642.9	3650.1
20°	11083.5	10701.9	9715.6	8408.9	6882.6	5169.2	3869.7	3189.3	3067.0	3077.7	3088.5
22.5°	11051.1	10586.7	9359.2	7746.6	5820.7	3801.3	2854.6	2624.2	2689.0	2789.8	2804.2
25°	10975.5	10396.0	8945.3	7012.2	4557.2	2768.2	2329.0	2285.8	2404.6	2530.6	2566.6
27.5°	10856.7	10176.4	8480.9	6151.9	3354.9	2224.6	2048.2	2044.6	2138.2	2231.8	2264.2
30°	10730.7	9931.6	7991.3	5194.4	2429.8	1936.6	1868.2	1868.2	1915.0	1972.6	1965.4
32.5°	10583.1	9683.2	7465.8	4197.3	1979.8	1774.7	1753.1	1742.3	1749.5	1771.1	1771.1
35°	10457.1	9463.6	6925.8	3142.5	1774.7	1684.7	1663.1	1637.9	1627.1	1612.7	1619.9
37.5°	10410.4	9290.8	6367.9	2368.6	1673.9	1619.9	1583.9	1547.9	1522.7	1515.5	1511.9
40°	10485.9	9218.8	5809.9	1951.0	1601.9	1551.5	1511.9	1465.1	1443.5	1443.5	1443.5
42.5°	10781.1	9272.8	5241.2	1763.9	1551.5	1493.9	1436.3	1393.1	1385.9	1393.1	1396.7
45°	11321.1	9481.6	4650.8	1670.3	1508.3	1436.3	1367.9	1335.5	1335.5	1342.7	1342.7
47.5°	12285.8	10028.8	4067.7	1612.7	1465.1	1389.5	1317.5	1285.1	1281.5	1288.7	1288.7
50°	13956.1	11015.1	3542.1	1573.1	1432.7	1353.5	1281.5	1238.3	1227.5	1223.9	1223.9
52.5°	16061.9	12725.0	3207.3	1544.3	1393.1	1313.9	1241.9	1184.3	1162.7	1151.9	1151.9
55°	18606.9	15003.6	3207.3	1522.7	1342.7	1267.1	1184.3	1126.7	1094.3	1079.9	1079.9
57.5°	21490.3	17656.6	3761.7	1504.7	1303.1	1213.1	1123.1	1065.5	1029.5	1007.9	1007.9
60°	24424.0	20460.7	5133.2	1479.5	1267.1	1144.7	1054.7	1000.7	953.9	928.7	925.1
62.5°	27465.8	23549.3	6940.2	1493.9	1241.9	1079.9	982.7	921.5	881.9	856.7	853.1
65°	30251.9	26490.2	8520.5	1605.5	1245.5	1022.3	899.9	845.9	813.5	781.1	777.5
67.5°	32616.9	28113.7	7411.8	1832.3	1321.1	953.9	817.1	763.1	734.3	712.7	709.1
70°	30961.1	25637.1	4204.5	1972.6	1425.5	881.9	723.5	687.5	658.7	644.3	640.7
72.5°	26475.8	21706.2	2811.4	1742.3	1299.5	788.3	637.1	608.4	586.8	568.8	565.2
75°	21447.1	17213.8	2149.0	1429.1	1011.5	640.7	547.2	525.6	504.0	486.0	482.4
77.5°	12689.0	9946.0	1583.9	1130.3	712.7	500.4	453.6	435.6	414.0	399.6	396.0
80°	4049.7	3455.7	1004.3	777.5	471.6	385.2	349.2	334.8	313.2	295.2	291.6
82.5°	1544.3	1335.5	532.8	396.0	313.2	262.8	234.0	219.6	205.2	187.2	183.6
85°	683.9	640.7	295.2	212.4	169.2	129.6	115.2	108.0	90.0	75.6	72.0
87.5°	241.2	241.2	126.0	61.2	36.0	18.0	10.8	3.6	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)