

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: P639853

Luminaire Tested: GWS-SA5C-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639853  
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-SA5C-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

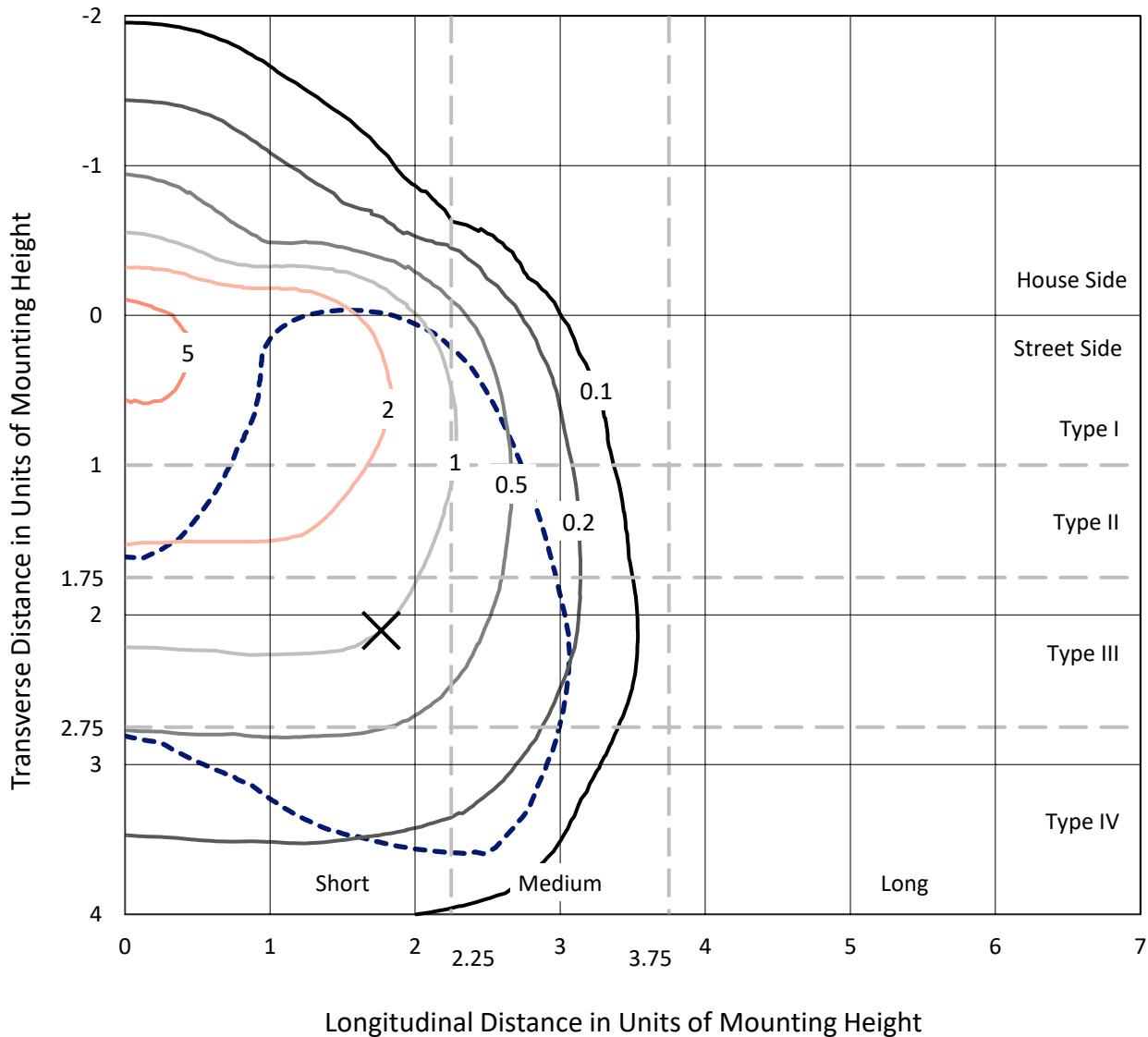
Lumens per Lamp: N/A  
Luminaire Lumens: 23072.8 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

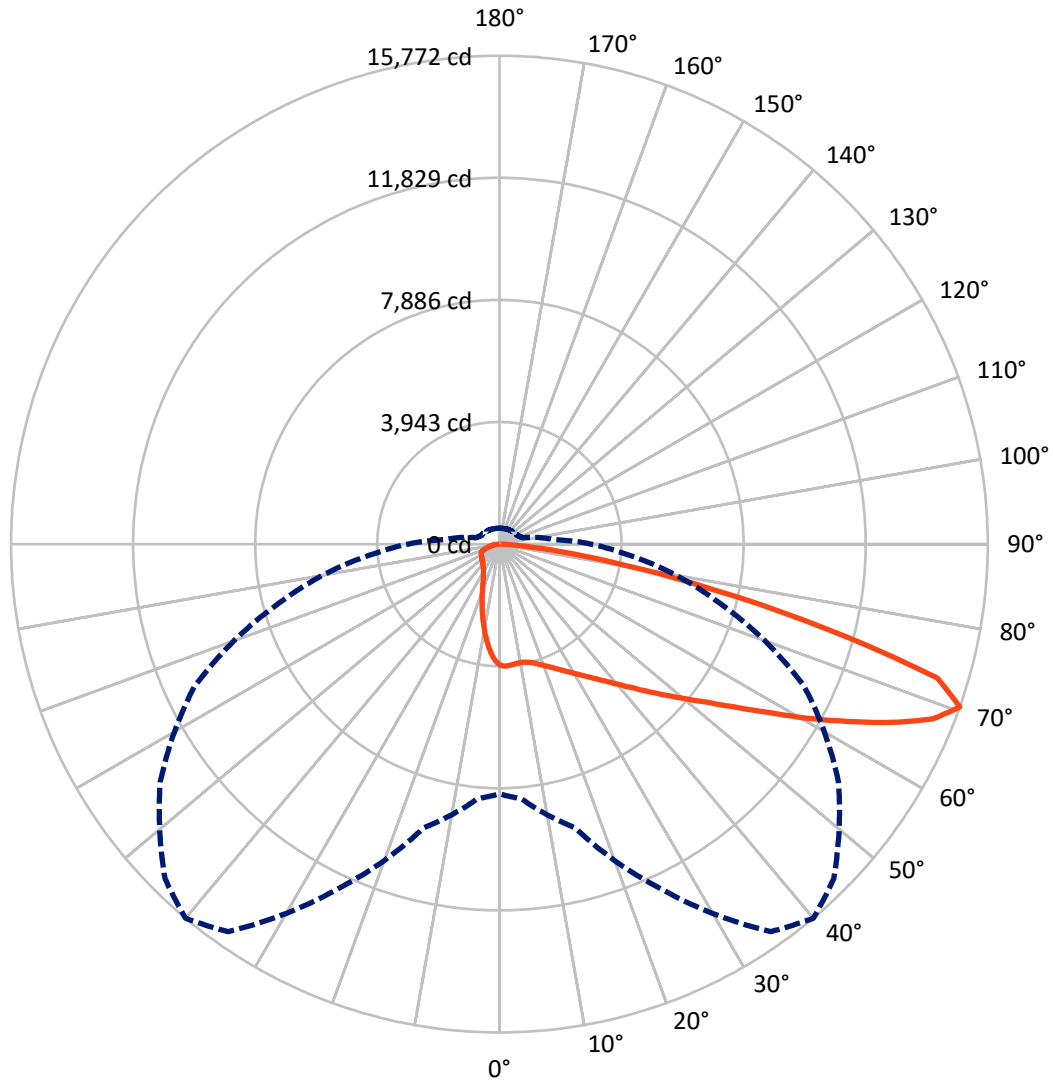
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3553.8	0.0	3553.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	19519.0	0.0	19519.0
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	23072.8	0.0	23072.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.1	1.5
10°-20°	902.2	3.9
20°-30°	1416.6	6.1
30°-40°	2129.9	9.2
40°-50°	3287.6	14.2
50°-60°	4882.4	21.2
60°-70°	6154.1	26.7
70°-80°	3558.9	15.4
80°-90°	395.0	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°	23072.8	100.0
0°-180°	23072.8	100.0

**Coefficient of Utilization**



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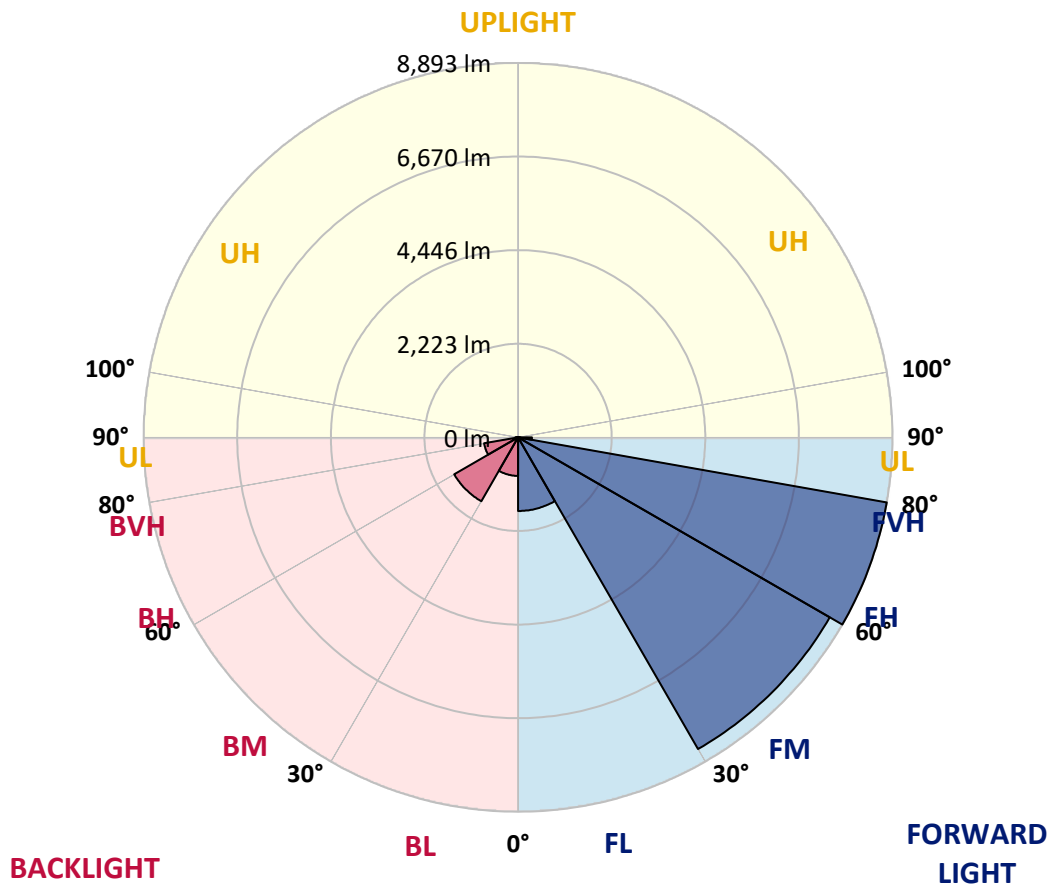
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.1	7.6			
FM (30°-60°)	8548.2	37.0			
FH (60°-80°)	8892.8	38.5			G4/12000
FVH (80°-90°)	328.9	1.4			G3/500
BL (0°-30°)	915.9	4.0	B2/1000		
BM (30°-60°)	1751.7	7.6	B2/2500		
BH (60°-80°)	820.2	3.6	B2/1000		G2/1000
BVH (80°-90°)	66.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0
2.5°	3942.1	3949.0	3954.2	3961.1	3957.6	3947.3	3955.9	3955.9	3937.0	3916.3	3897.4
5°	3947.3	3955.9	3954.2	3952.5	3938.7	3921.5	3921.5	3911.1	3878.4	3845.7	3814.7
7.5°	3937.0	3935.2	3933.5	3928.4	3912.9	3893.9	3890.5	3869.8	3826.7	3782.0	3737.2
10°	3890.5	3888.7	3893.9	3906.0	3902.5	3885.3	3885.3	3866.4	3816.4	3761.3	3702.7
12.5°	3852.6	3852.6	3873.2	3906.0	3918.0	3911.1	3912.9	3899.1	3842.2	3776.8	3707.9
15°	3857.7	3859.5	3904.2	3957.6	3980.0	3974.9	3976.6	3961.1	3897.4	3831.9	3738.9
17.5°	3892.2	3900.8	3978.3	4052.4	4081.6	4074.7	4062.7	4036.9	3964.5	3890.5	3776.8
20°	3964.5	3978.3	4078.2	4171.2	4205.6	4190.1	4169.5	4117.8	4038.6	3957.6	3818.1
22.5°	4107.5	4116.1	4226.3	4317.6	4345.1	4326.2	4284.9	4210.8	4119.5	4035.1	3868.1
25°	4309.0	4319.3	4424.4	4508.7	4501.9	4479.5	4422.6	4331.4	4222.9	4133.3	3940.4
27.5°	4548.4	4565.6	4668.9	4736.1	4691.3	4658.6	4594.9	4484.6	4362.4	4281.4	4050.6
30°	4810.1	4817.0	4904.9	4972.0	4903.1	4858.4	4780.9	4662.0	4551.8	4491.5	4216.0
32.5°	5063.3	5070.2	5146.0	5183.8	5111.5	5078.8	5011.6	4885.9	4808.4	4775.7	4462.2
35°	5330.2	5328.5	5390.5	5423.2	5349.2	5335.4	5266.5	5170.1	5156.3	5199.3	4822.2
37.5°	5597.2	5581.7	5614.4	5657.5	5616.1	5629.9	5585.1	5552.4	5605.8	5717.7	5301.0
40°	5810.7	5810.7	5845.2	5898.6	5912.3	5972.6	5946.8	5989.8	6162.1	6429.0	5893.4
42.5°	6000.2	6001.9	6074.2	6156.9	6256.8	6349.8	6370.5	6482.4	6838.9	7257.4	6637.4
45°	6198.2	6200.0	6298.1	6418.7	6630.5	6807.9	6849.2	7100.7	7610.4	8120.2	7445.1
47.5°	6427.3	6408.3	6544.4	6745.9	7047.3	7302.2	7408.9	7765.4	8409.5	9036.4	8206.3
50°	6685.6	6646.0	6797.6	7145.4	7517.4	7867.1	8046.2	8454.3	9267.2	9882.0	8922.8
52.5°	6976.7	6954.3	7112.7	7536.4	8104.7	8507.7	8750.5	9286.2	10100.8	10724.2	9491.1
55°	7338.3	7284.9	7514.0	8053.1	8793.6	9306.8	9594.4	10109.4	11011.8	11488.9	9925.1
57.5°	7734.4	7675.9	7982.4	8698.9	9689.1	10252.3	10612.3	11035.9	11869.5	12074.4	10180.0
60°	8161.5	8142.6	8506.0	9456.7	10756.9	11411.4	11671.4	12055.5	12615.2	12413.7	10116.3
62.5°	8552.5	8545.6	9074.3	10278.1	11888.4	12608.3	12815.0	12916.6	13152.5	12391.3	9609.9
65°	8964.1	9022.7	9737.4	11230.5	13185.2	13891.3	13977.5	13719.1	13333.3	11804.0	8573.2
67.5°	9015.8	9129.4	10154.1	12122.6	14414.9	15081.4	15012.5	14023.9	12799.5	10169.6	6720.1
70°	8063.4	8261.4	9489.4	12258.7	15281.2	15772.0	15274.3	13367.8	10862.0	7367.6	4226.3
72.5°	6737.3	6907.8	7992.8	10453.8	14163.4	14788.6	14115.2	11314.9	7675.9	4226.3	2152.8
75°	5244.1	5442.2	6442.8	8309.7	10603.6	10853.4	10515.8	7891.2	4219.4	1742.9	978.2
77.5°	3199.9	3342.8	4121.2	5629.9	7419.3	7045.6	5970.9	4424.4	1851.4	835.3	604.5
80°	1415.7	1503.5	2030.5	3024.2	4286.6	4052.4	3194.7	1889.3	1012.7	530.4	421.9
82.5°	759.5	816.3	1000.6	1196.9	1882.4	1968.5	1596.5	1088.4	544.2	303.1	241.1
85°	334.1	366.8	454.7	434.0	618.3	607.9	613.1	747.4	260.1	139.5	156.7
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	18.9	99.9	25.8	41.3	36.2
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°	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0	3918.0
2.5°	3876.7	3845.7	3837.1	3826.7	3807.8	3775.1	3751.0	3723.4	3711.4	3697.6	3699.3
5°	3780.2	3742.4	3706.2	3659.7	3601.1	3535.7	3490.9	3439.3	3411.7	3385.9	3392.8
7.5°	3697.6	3639.0	3565.0	3466.8	3361.8	3244.6	3149.9	3075.9	3025.9	2991.5	3008.7
10°	3645.9	3577.0	3447.9	3287.7	3110.3	2931.2	2795.1	2667.7	2588.5	2526.5	2523.0
12.5°	3635.6	3546.0	3358.3	3125.8	2869.2	2629.8	2430.0	2257.8	2152.8	2075.3	2104.5
15°	3645.9	3532.3	3280.8	2976.0	2652.2	2328.4	2080.4	1882.4	1756.7	1686.0	1680.9
17.5°	3658.0	3518.5	3193.0	2814.1	2424.9	2054.6	1767.0	1556.9	1427.7	1357.1	1358.8
20°	3668.3	3497.8	3089.6	2636.7	2194.1	1799.7	1501.8	1302.0	1186.6	1134.9	1143.5
22.5°	3685.5	3477.1	2979.4	2447.3	1958.2	1553.4	1291.7	1129.8	1060.9	1026.4	1028.2
25°	3718.2	3465.1	2865.8	2240.6	1725.7	1357.1	1147.0	1038.5	995.4	974.8	973.0
27.5°	3785.4	3475.4	2746.9	2040.8	1515.5	1207.3	1054.0	983.4	954.1	940.3	938.6
30°	3897.4	3516.8	2643.6	1837.6	1334.7	1090.2	990.3	947.2	930.0	917.9	916.2
32.5°	4067.9	3594.3	2531.6	1648.2	1188.3	1004.0	940.3	917.9	905.9	899.0	899.0
35°	4326.2	3735.5	2421.4	1482.8	1074.7	936.9	900.7	892.1	881.8	878.3	881.8
37.5°	4698.2	3961.1	2321.5	1338.2	993.7	885.2	857.7	861.1	852.5	857.7	862.8
40°	5170.1	4262.5	2237.1	1219.3	933.4	847.3	819.8	831.8	826.7	831.8	840.4
42.5°	5767.7	4636.2	2173.4	1126.3	890.4	816.3	790.5	802.5	799.1	806.0	814.6
45°	6434.2	5128.7	2144.2	1060.9	859.4	793.9	766.4	775.0	771.5	776.7	785.3
47.5°	7073.1	5576.5	2170.0	1023.0	833.5	775.0	745.7	749.2	747.4	745.7	750.9
50°	7624.2	5933.0	2244.0	1010.9	816.3	756.0	728.5	730.2	725.1	714.7	718.2
52.5°	8073.7	6218.9	2288.8	1010.9	807.7	735.4	709.6	711.3	700.9	687.2	688.9
55°	8369.9	6334.3	2252.6	1009.2	804.3	718.2	690.6	692.3	682.0	664.8	666.5
57.5°	8454.3	6222.3	2101.1	990.3	800.8	704.4	671.7	675.1	668.2	649.3	649.3
60°	8218.4	5812.5	1823.8	947.2	792.2	695.8	657.9	663.1	659.6	640.7	640.7
62.5°	7600.1	5084.0	1493.2	881.8	768.1	685.4	645.8	656.2	664.8	654.4	652.7
65°	6442.8	4073.0	1214.2	809.4	737.1	668.2	628.6	654.4	673.4	687.2	687.2
67.5°	4834.2	2915.7	990.3	733.7	690.6	633.8	606.2	630.3	644.1	652.7	657.9
70°	2946.7	1715.3	780.2	645.8	623.4	582.1	561.4	537.3	518.4	514.9	516.7
72.5°	1441.5	981.7	633.8	549.4	532.2	494.3	447.8	437.4	428.8	423.7	421.9
75°	793.9	683.7	523.6	456.4	425.4	378.9	368.6	351.3	347.9	341.0	342.7
77.5°	561.4	539.1	432.3	370.3	323.8	299.7	304.8	292.8	292.8	287.6	285.9
80°	421.9	423.7	332.4	270.4	239.4	230.8	235.9	235.9	232.5	230.8	229.1
82.5°	266.9	301.4	223.9	173.9	170.5	172.2	170.5	168.8	172.2	167.1	165.3
85°	184.3	217.0	136.1	103.3	103.3	101.6	105.1	103.3	106.8	101.6	101.6
87.5°	41.3	96.4	49.9	31.0	32.7	31.0	32.7	34.4	37.9	39.6	39.6
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)