

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: P642933

Luminaire Tested: GWS-SA6D-830-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642933  
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-SA6D-830-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

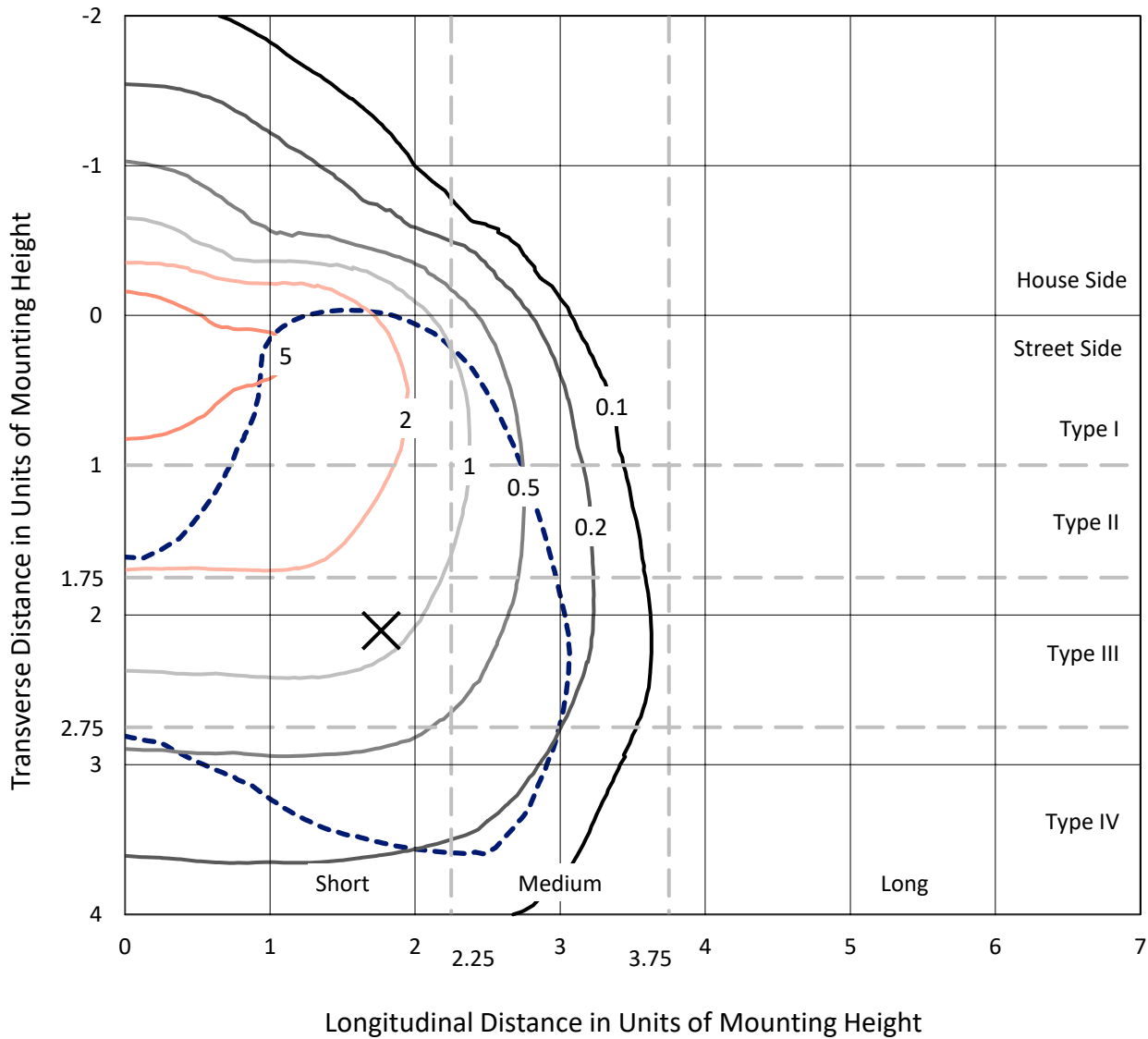
Lumens per Lamp: N/A  
Luminaire Lumens: 27329.2 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P642933  
 CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

### Iso-Footcandle Lines of Horizontal Illumination

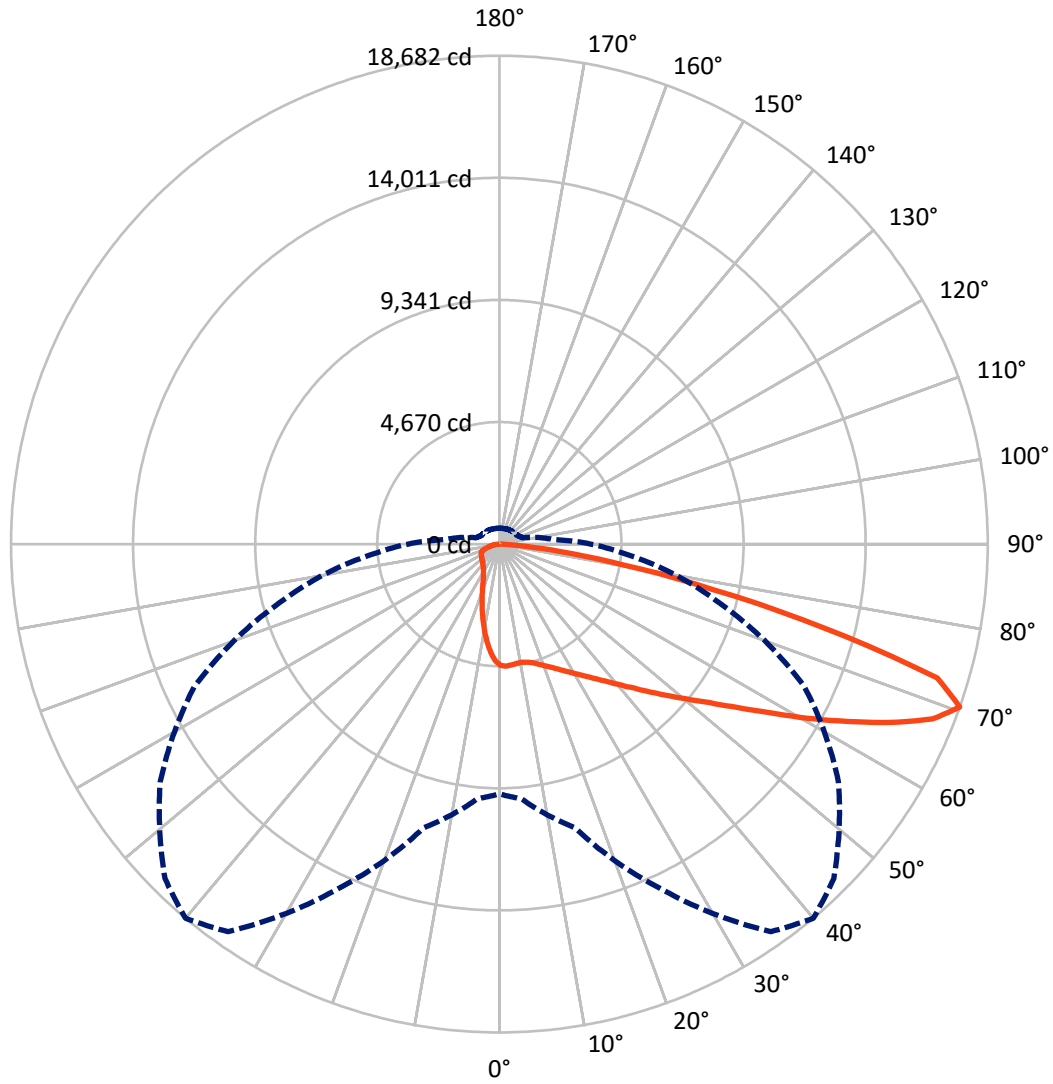
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P642933  
CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P642933

CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4209.4	0.0	4209.4
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	23119.8	0.0	23119.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	27329.2	0.0	27329.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.0	1.5
10°-20°	1068.6	3.9
20°-30°	1678.0	6.1
30°-40°	2522.8	9.2
40°-50°	3894.1	14.2
50°-60°	5783.0	21.2
60°-70°	7289.4	26.7
70°-80°	4215.4	15.4
80°-90°	467.8	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°	27329.2	100.0
0°-180°	27329.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642933

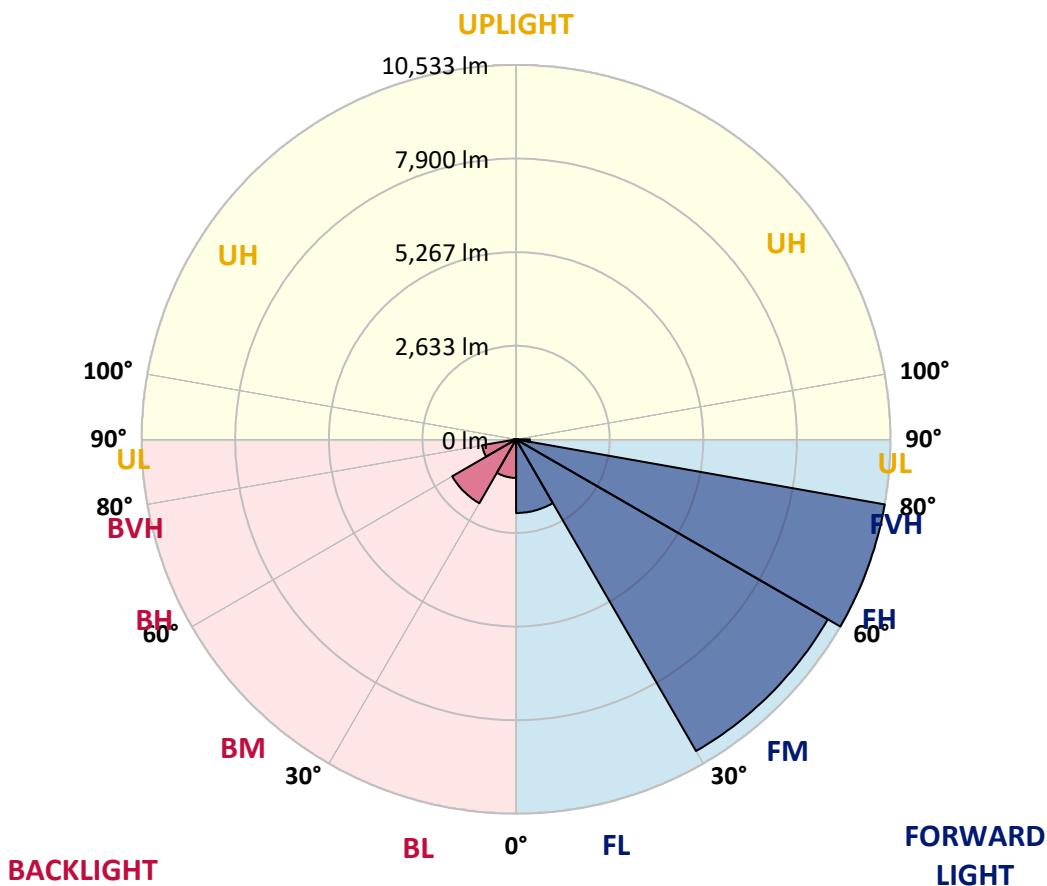
CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2071.8	7.6			
FM (30°-60°)	10125.1	37.0			
FH (60°-80°)	10533.3	38.5			G4/12000
FVH (80°-90°)	389.6	1.4			G3/500
BL (0°-30°)	1084.8	4.0	B3/2500		
BM (30°-60°)	2074.9	7.6	B2/2500		
BH (60°-80°)	971.5	3.6	B2/1000		G2/1000
BVH (80°-90°)	78.2	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





REPORT NUMBER: P642933

CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8
2.5°	4669.4	4677.5	4683.6	4691.8	4687.7	4675.5	4685.7	4685.7	4663.3	4638.8	4616.3
5°	4675.5	4685.7	4683.6	4681.6	4665.3	4644.9	4644.9	4632.7	4593.9	4555.1	4518.4
7.5°	4663.3	4661.2	4659.2	4653.1	4634.7	4612.3	4608.2	4583.7	4532.7	4479.7	4426.6
10°	4608.2	4606.1	4612.3	4626.5	4622.5	4602.1	4602.1	4579.6	4520.5	4455.2	4385.8
12.5°	4563.3	4563.3	4587.8	4626.5	4640.8	4632.7	4634.7	4618.4	4551.1	4473.5	4391.9
15°	4569.4	4571.5	4624.5	4687.7	4714.2	4708.1	4710.2	4691.8	4616.3	4538.8	4428.7
17.5°	4610.2	4620.4	4712.2	4799.9	4834.6	4826.4	4812.2	4781.6	4695.9	4608.2	4473.5
20°	4695.9	4712.2	4830.5	4940.7	4981.5	4963.1	4938.6	4877.4	4783.6	4687.7	4522.5
22.5°	4865.2	4875.4	5006.0	5114.1	5146.7	5124.3	5075.3	4987.6	4879.5	4779.5	4581.7
25°	5103.9	5116.1	5240.5	5340.5	5332.3	5305.8	5238.5	5130.4	5001.9	4895.8	4667.3
27.5°	5387.4	5407.8	5530.2	5609.8	5556.7	5518.0	5442.5	5311.9	5167.1	5071.2	4797.9
30°	5697.5	5705.6	5809.7	5889.2	5807.6	5754.6	5662.8	5522.1	5391.5	5320.1	4993.7
32.5°	5997.4	6005.5	6095.3	6140.2	6054.5	6015.7	5936.2	5787.2	5695.4	5656.7	5285.4
35°	6313.5	6311.5	6384.9	6423.7	6336.0	6319.7	6238.1	6123.8	6107.5	6158.5	5711.8
37.5°	6629.7	6611.4	6650.1	6701.1	6652.2	6668.5	6615.5	6576.7	6639.9	6772.5	6278.9
40°	6882.7	6882.7	6923.5	6986.7	7003.0	7074.4	7043.8	7094.8	7298.8	7615.0	6980.6
42.5°	7107.1	7109.1	7194.8	7292.7	7411.0	7521.2	7545.7	7678.2	8100.5	8596.2	7861.8
45°	7341.7	7343.7	7460.0	7602.8	7853.7	8063.8	8112.8	8410.6	9014.4	9618.2	8818.6
47.5°	7613.0	7590.5	7751.7	7990.4	8347.3	8649.2	8775.7	9198.0	9960.9	10703.4	9720.2
50°	7919.0	7872.0	8051.6	8463.6	8904.2	9318.3	9530.5	10014.0	10976.8	11705.0	10568.8
52.5°	8263.7	8237.2	8424.9	8926.7	9599.9	10077.2	10364.8	10999.2	11964.1	12702.6	11242.0
55°	8692.1	8628.8	8900.2	9538.7	10415.8	11023.7	11364.4	11974.3	13043.2	13608.3	11756.0
57.5°	9161.3	9091.9	9455.0	10303.6	11476.6	12143.6	12570.0	13071.8	14059.1	14301.9	12058.0
60°	9667.2	9644.7	10075.2	11201.2	12741.3	13516.5	13824.5	14279.4	14942.4	14703.7	11982.5
62.5°	10130.2	10122.1	10748.3	12174.2	14081.5	14934.2	15179.0	15299.4	15578.8	14677.2	11382.7
65°	10617.8	10687.1	11533.7	13302.3	15617.6	16454.0	16556.0	16250.0	15793.0	13981.6	10154.7
67.5°	10679.0	10813.6	12027.4	14359.0	17074.1	17863.6	17782.0	16611.0	15160.7	12045.7	7959.8
70°	9550.9	9785.5	11239.9	14520.1	18100.2	18681.6	18092.0	15833.8	12865.8	8726.8	5006.0
72.5°	7980.2	8182.1	9467.3	12382.3	16776.3	17516.8	16719.2	13402.3	9091.9	5006.0	2549.9
75°	6211.5	6446.1	7631.3	9842.6	12559.8	12855.6	12455.7	9346.9	4997.8	2064.4	1158.7
77.5°	3790.2	3959.5	4881.5	6668.5	8788.0	8345.3	7072.4	5240.5	2192.9	989.4	716.0
80°	1676.8	1780.8	2405.1	3582.1	5077.4	4799.9	3784.0	2237.8	1199.5	628.3	499.8
82.5°	899.6	966.9	1185.2	1417.7	2229.6	2331.6	1891.0	1289.2	644.6	359.0	285.6
85°	395.7	434.5	538.5	514.1	732.3	720.1	726.2	885.3	308.0	165.2	185.6
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	22.4	118.3	30.6	49.0	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P642933  
 CATALOG NUMBER: GWS-SA6D-830-U-SL4-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8
2.5°	4591.9	4555.1	4544.9	4532.7	4510.3	4471.5	4442.9	4410.3	4396.0	4379.7	4381.7
5°	4477.6	4432.7	4389.9	4334.8	4265.5	4187.9	4134.9	4073.7	4041.1	4010.5	4018.6
7.5°	4379.7	4310.3	4222.6	4106.4	3981.9	3843.2	3731.0	3643.3	3584.1	3543.3	3563.7
10°	4318.5	4236.9	4083.9	3894.2	3684.1	3471.9	3310.8	3159.8	3066.0	2992.6	2988.5
12.5°	4306.3	4200.2	3977.8	3702.4	3398.5	3115.0	2878.3	2674.3	2549.9	2458.1	2492.8
15°	4318.5	4183.9	3886.0	3525.0	3141.5	2758.0	2464.2	2229.6	2080.7	1997.1	1991.0
17.5°	4332.8	4167.6	3782.0	3333.2	2872.2	2433.6	2093.0	1844.1	1691.1	1607.5	1609.5
20°	4345.0	4143.1	3659.6	3123.1	2598.9	2131.7	1778.8	1542.2	1405.5	1344.3	1354.5
22.5°	4365.4	4118.6	3529.1	2898.7	2319.4	1840.0	1529.9	1338.2	1256.6	1215.8	1217.8
25°	4404.2	4104.3	3394.4	2653.9	2044.0	1607.5	1358.6	1230.1	1179.1	1154.6	1152.6
27.5°	4483.7	4116.6	3253.7	2417.3	1795.1	1430.0	1248.4	1164.8	1130.1	1113.8	1111.8
30°	4616.3	4165.5	3131.3	2176.6	1580.9	1291.3	1173.0	1122.0	1101.6	1087.3	1085.2
32.5°	4818.3	4257.3	2998.7	1952.2	1407.5	1189.3	1113.8	1087.3	1073.0	1064.8	1064.8
35°	5124.3	4424.6	2868.1	1756.4	1272.9	1109.7	1066.9	1056.7	1044.4	1040.4	1044.4
37.5°	5564.9	4691.8	2749.8	1585.0	1177.0	1048.5	1015.9	1020.0	1009.8	1015.9	1022.0
40°	6123.8	5048.8	2649.9	1444.3	1105.6	1003.6	971.0	985.3	979.2	985.3	995.5
42.5°	6831.7	5491.5	2574.4	1334.1	1054.6	966.9	936.3	950.6	946.5	954.7	964.9
45°	7621.1	6074.9	2539.7	1256.6	1017.9	940.4	907.8	918.0	913.9	920.0	930.2
47.5°	8377.9	6605.3	2570.3	1211.7	987.3	918.0	883.3	887.4	885.3	883.3	889.4
50°	9030.7	7027.5	2658.0	1197.4	966.9	895.5	862.9	864.9	858.8	846.6	850.6
52.5°	9563.1	7366.1	2711.0	1197.4	956.7	871.0	840.4	842.5	830.2	813.9	816.0
55°	9914.0	7502.8	2668.2	1195.4	952.6	850.6	818.0	820.0	807.8	787.4	789.4
57.5°	10014.0	7370.2	2488.7	1173.0	948.6	834.3	795.6	799.6	791.5	769.0	769.0
60°	9734.5	6884.7	2160.3	1122.0	938.4	824.1	779.2	785.4	781.3	758.8	758.8
62.5°	9002.2	6021.8	1768.6	1044.4	909.8	811.9	765.0	777.2	787.4	775.2	773.1
65°	7631.3	4824.4	1438.1	958.8	873.1	791.5	744.6	775.2	797.6	813.9	813.9
67.5°	5726.0	3453.6	1173.0	869.0	818.0	750.7	718.1	746.6	762.9	773.1	779.2
70°	3490.3	2031.8	924.1	765.0	738.5	689.5	665.0	636.5	614.0	609.9	612.0
72.5°	1707.4	1162.8	750.7	650.7	630.3	585.5	530.4	518.1	507.9	501.8	499.8
75°	940.4	809.8	620.1	540.6	503.9	448.8	436.5	416.1	412.1	403.9	405.9
77.5°	665.0	638.5	512.0	438.6	383.5	354.9	361.1	346.8	346.8	340.7	338.6
80°	499.8	501.8	393.7	320.3	283.5	273.3	279.5	279.5	275.4	273.3	271.3
82.5°	316.2	357.0	265.2	206.0	202.0	204.0	202.0	199.9	204.0	197.9	195.8
85°	218.3	257.0	161.2	122.4	122.4	120.4	124.4	122.4	126.5	120.4	120.4
87.5°	49.0	114.2	59.2	36.7	38.8	36.7	38.8	40.8	44.9	46.9	46.9
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)