

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: P642779

Luminaire Tested: GWS-SA6D-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-750-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

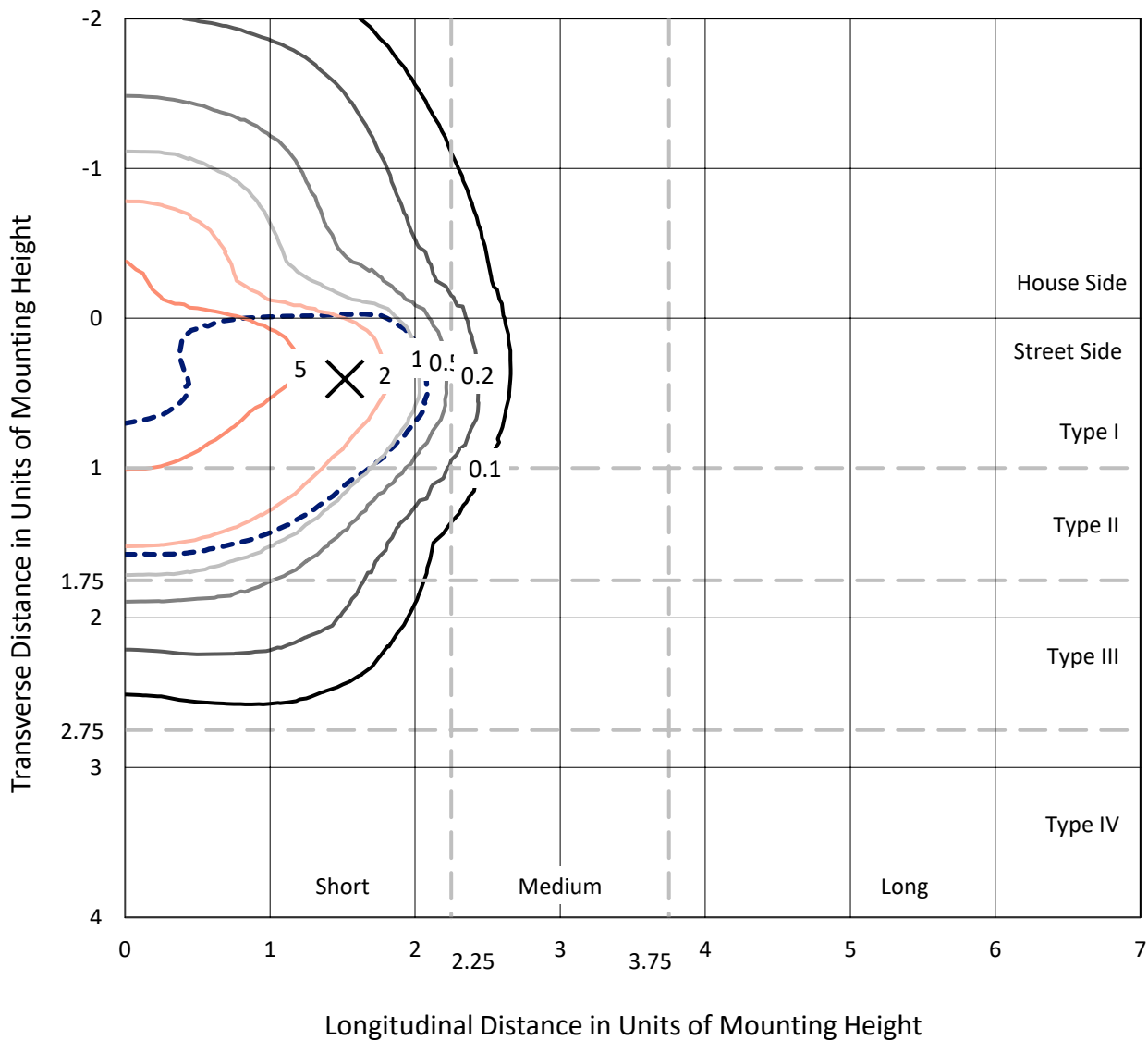
Lumens per Lamp: N/A  
Luminaire Lumens: 30549.7 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

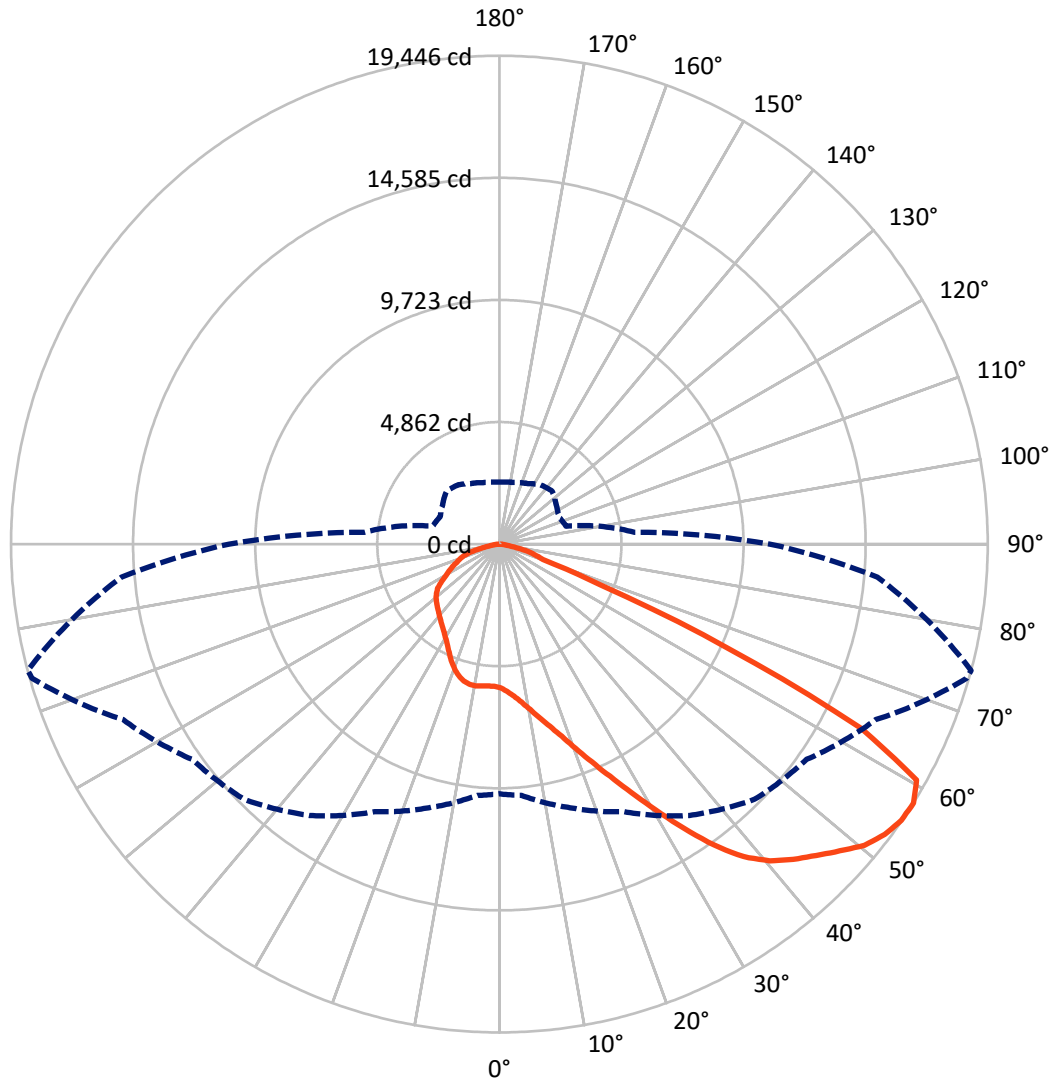
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8264.3	0.0	8264.3
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	22285.4	0.0	22285.4
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	30549.7	0.0	30549.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.5	1.9
10°-20°	1822.8	6.0
20°-30°	3232.7	10.6
30°-40°	4948.7	16.2
40°-50°	6890.6	22.6
50°-60°	7895.3	25.8
60°-70°	4056.7	13.3
70°-80°	1021.3	3.3
80°-90°	109.2	0.4
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°	30549.7	100.0
0°-180°	30549.7	100.0

**Coefficient of Utilization**



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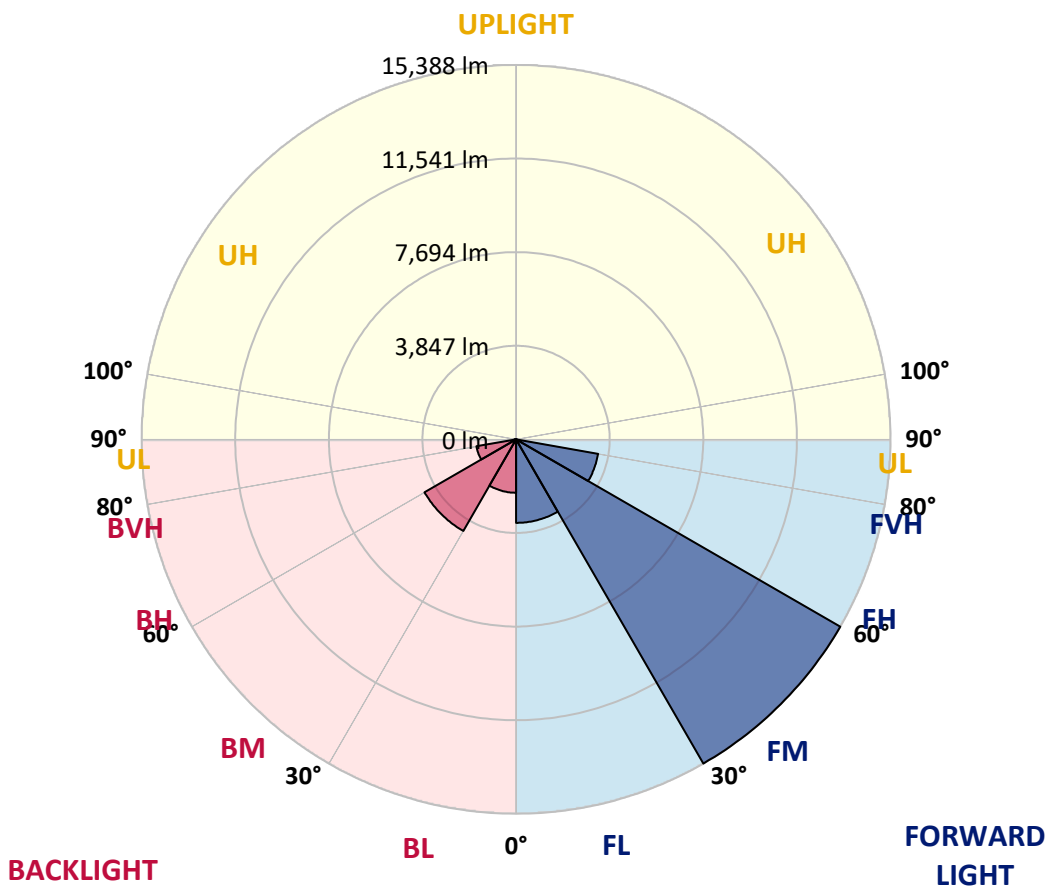
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3432.4	11.2			
FM (30°-60°)	15388.2	50.4			
FH (60°-80°)	3424.3	11.2			G2/5000
FVH (80°-90°)	40.4	0.1			G1/100
BL (0°-30°)	2195.5	7.2	B3/2500		
BM (30°-60°)	4346.3	14.2	B3/5000		
BH (60°-80°)	1653.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	68.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2
2.5°	6146.8	6162.5	6146.8	6173.0	6120.5	6096.9	6039.1	5952.4	5884.1	5873.6	5797.4
5°	6624.9	6659.0	6638.0	6627.5	6556.6	6504.0	6417.3	6244.0	6102.1	6081.1	5931.4
7.5°	6932.2	6955.8	6955.8	6963.7	6937.4	6877.0	6785.1	6580.2	6380.6	6349.0	6123.1
10°	7034.6	7053.0	7087.2	7152.8	7205.4	7223.8	7163.4	6966.3	6722.0	6690.5	6375.3
12.5°	7058.3	7079.3	7131.8	7252.7	7397.1	7528.5	7539.0	7394.5	7121.3	7087.2	6666.9
15°	7102.9	7124.0	7194.9	7344.6	7557.4	7809.6	7964.5	7864.7	7562.6	7525.9	6997.9
17.5°	7097.7	7121.3	7226.4	7426.0	7712.4	8077.5	8376.9	8419.0	8106.4	8043.3	7373.5
20°	7084.5	7105.6	7218.5	7462.8	7817.4	8319.2	8860.3	9078.3	8742.1	8684.3	7812.2
22.5°	7189.6	7213.3	7299.9	7502.2	7872.6	8505.7	9306.8	9832.2	9496.0	9414.5	8316.5
25°	7426.0	7460.2	7512.7	7651.9	7972.4	8671.2	9763.9	10685.9	10341.8	10244.6	8865.5
27.5°	7791.2	7833.2	7906.7	7972.4	8195.7	8881.3	10218.4	11642.1	11298.0	11195.5	9446.1
30°	8237.7	8292.9	8387.5	8432.1	8584.5	9191.3	10712.2	12627.1	12427.5	12285.7	10100.1
32.5°	8855.0	8931.2	9020.5	9033.7	9125.6	9661.5	11200.8	13604.3	13601.7	13501.9	10843.5
35°	9658.8	9740.3	9758.7	9777.0	9821.7	10307.7	11791.8	14494.8	14838.9	14723.4	11652.6
37.5°	10536.2	10654.4	10683.3	10601.9	10664.9	11085.2	12456.4	15209.3	15915.9	15792.5	12435.4
40°	11474.0	11521.3	11600.1	11471.3	11550.2	11975.7	13107.9	15666.4	16719.7	16588.4	13052.7
42.5°	12146.4	12233.1	12351.3	12304.0	12348.7	12737.5	13564.9	15887.0	17292.4	17161.0	13496.6
45°	12876.7	12903.0	12979.1	12968.6	12994.9	13357.4	13893.3	15984.2	17804.6	17686.4	13874.9
47.5°	13512.4	13551.8	13601.7	13543.9	13486.1	13722.5	14161.2	16068.3	18395.7	18253.8	14271.5
50°	14124.4	14158.6	14219.0	14050.9	13835.5	13895.9	14292.6	16183.9	18949.9	18850.1	14584.1
52.5°	14237.4	14274.2	14557.9	14592.0	14316.2	14103.4	14523.7	16438.7	19275.6	19212.6	14697.1
55°	12816.3	12882.0	13446.7	14095.5	14775.9	14707.6	14894.1	16572.6	19404.4	19420.1	14899.4
57.5°	9947.8	10042.4	10867.2	11757.7	13189.3	14374.0	14941.4	16538.5	19359.7	19446.4	15106.9
60°	6525.0	6580.2	7557.4	8555.6	10039.7	11678.9	13373.2	15923.8	18963.1	19086.5	15054.3
62.5°	3940.2	4003.3	4788.7	5545.2	6420.0	7515.3	9070.4	12797.9	15894.9	16170.7	12057.1
65°	2750.3	2834.3	3522.6	4145.1	4447.2	4221.3	4594.3	7147.6	9903.1	10018.7	7368.2
67.5°	1993.8	2051.6	2616.3	3357.1	3690.7	2981.4	2272.2	3165.3	4313.2	4355.3	3039.2
70°	1305.5	1371.2	1883.4	2555.9	3013.0	2416.7	1699.6	1712.7	1815.1	1836.2	1765.2
72.5°	717.1	756.5	1163.7	1696.9	1781.0	1444.8	1326.5	1423.7	1494.7	1494.7	1513.1
75°	370.4	404.5	475.5	559.5	675.1	790.7	956.2	1100.6	1176.8	1182.1	1174.2
77.5°	189.1	202.3	254.8	275.8	302.1	352.0	457.1	585.8	654.1	680.3	675.1
80°	89.3	94.6	107.7	126.1	155.0	197.0	246.9	294.2	336.2	341.5	370.4
82.5°	47.3	52.5	57.8	68.3	84.1	105.1	144.5	173.4	199.6	204.9	228.5
85°	18.4	21.0	23.6	26.3	36.8	44.7	60.4	81.4	99.8	99.8	118.2
87.5°	0.0	0.0	0.0	0.0	2.6	5.3	10.5	13.1	18.4	18.4	31.5
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°	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2	5721.2
2.5°	5779.0	5702.8	5668.7	5613.5	5568.9	5519.0	5479.6	5450.7	5432.3	5421.8	5411.3
5°	5873.6	5758.0	5666.1	5555.7	5479.6	5406.0	5345.6	5303.6	5282.5	5266.8	5256.3
7.5°	6020.7	5865.7	5692.3	5521.6	5387.6	5269.4	5193.2	5148.6	5119.7	5109.2	5101.3
10°	6222.9	6007.5	5721.2	5450.7	5251.0	5122.3	5069.8	5048.8	5051.4	5046.1	5043.5
12.5°	6451.5	6157.3	5713.3	5324.6	5103.9	5027.7	5030.4	5064.5	5103.9	5114.4	5117.1
15°	6698.4	6304.4	5637.2	5161.7	4988.3	4996.2	5064.5	5146.0	5219.5	5248.4	5253.7
17.5°	6966.3	6427.8	5497.9	4983.1	4893.8	4977.8	5103.9	5237.9	5345.6	5392.9	5406.0
20°	7265.8	6532.9	5300.9	4807.1	4804.5	4943.7	5127.6	5303.6	5440.2	5503.2	5513.7
22.5°	7583.6	6598.6	5059.3	4644.2	4712.5	4899.0	5109.2	5293.1	5437.5	5500.6	5513.7
25°	7904.1	6619.6	4794.0	4494.5	4618.0	4828.1	5019.9	5167.0	5303.6	5358.7	5369.2
27.5°	8203.6	6559.2	4541.8	4365.8	4531.3	4723.0	4851.7	4930.6	5025.1	5067.1	5075.0
30°	8508.3	6438.3	4329.0	4263.3	4434.1	4578.6	4636.3	4641.6	4678.4	4678.4	4683.6
32.5°	8815.6	6259.7	4142.5	4163.5	4313.2	4407.8	4415.7	4355.3	4310.6	4237.1	4234.4
35°	9170.2	6078.5	3990.1	4050.6	4171.4	4229.2	4205.5	4090.0	3982.3	3861.4	3856.2
37.5°	9498.6	5892.0	3861.4	3935.0	4011.2	4053.2	3998.0	3858.8	3769.5	3646.0	3627.6
40°	9769.2	5723.9	3738.0	3814.2	3850.9	3887.7	3798.4	3685.4	3698.6	3630.3	3627.6
42.5°	9926.8	5561.0	3622.4	3680.2	3703.8	3730.1	3651.3	3567.2	3638.2	3585.6	3588.2
45°	10042.4	5419.1	3517.3	3538.3	3596.1	3635.5	3562.0	3467.4	3483.2	3280.9	3233.6
47.5°	10173.7	5340.3	3417.5	3396.5	3498.9	3567.2	3454.3	3317.7	3223.1	3023.5	3005.1
50°	10312.9	5311.4	3312.4	3254.6	3378.1	3443.8	3312.4	3141.7	3018.2	2910.5	2900.0
52.5°	10360.2	5308.8	3181.1	3083.9	3207.4	3299.3	3189.0	3015.6	2868.5	2763.4	2758.2
55°	10546.7	5385.0	3013.0	2850.1	2965.7	3154.8	3073.4	2823.8	2705.6	2658.3	2653.1
57.5°	10764.7	5398.1	2747.7	2595.3	2755.5	2978.8	2876.4	2661.0	2532.3	2474.5	2469.2
60°	10675.4	5075.0	2464.0	2400.9	2576.9	2813.3	2718.8	2532.3	2382.5	2327.4	2322.1
62.5°	8135.3	3583.0	2256.4	2232.8	2385.2	2574.3	2555.9	2361.5	2219.7	2180.3	2175.0
65°	4893.8	2516.5	2056.8	2054.2	2161.9	2343.1	2366.8	2209.2	2059.4	2004.3	2004.3
67.5°	2419.3	1925.5	1830.9	1817.8	1886.1	2014.8	2114.6	1985.9	1859.8	1807.3	1799.4
70°	1710.1	1696.9	1665.4	1628.6	1641.8	1694.3	1736.3	1628.6	1494.7	1442.1	1431.6
72.5°	1478.9	1481.5	1460.5	1431.6	1421.1	1384.3	1347.6	1268.8	1187.3	1132.2	1137.4
75°	1147.9	1153.2	1166.3	1155.8	1126.9	1087.5	1048.1	948.3	882.6	830.1	819.6
77.5°	669.8	696.1	738.1	727.6	732.9	677.7	662.0	564.8	504.4	467.6	459.7
80°	378.3	394.0	412.4	425.5	409.8	386.1	352.0	299.5	281.1	254.8	249.5
82.5°	228.5	244.3	252.2	262.7	257.4	225.9	199.6	165.5	149.7	136.6	134.0
85°	115.6	126.1	134.0	139.2	123.5	102.4	91.9	73.6	63.0	55.2	55.2
87.5°	28.9	31.5	36.8	31.5	28.9	13.1	10.5	2.6	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)