

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: P640722

Luminaire Tested: GWS-SA5E-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

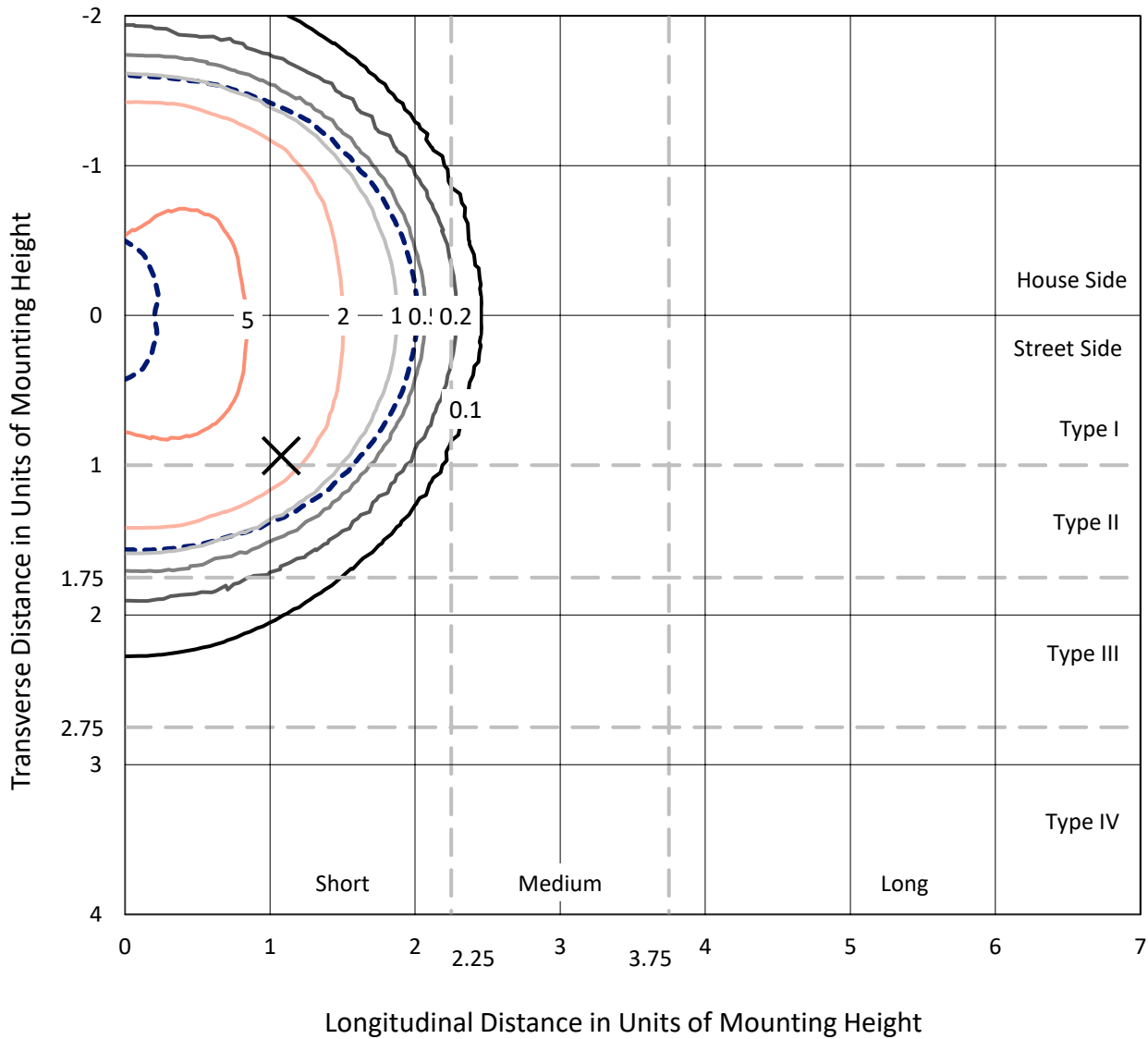
Lumens per Lamp: N/A  
Luminaire Lumens: 33093.4 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

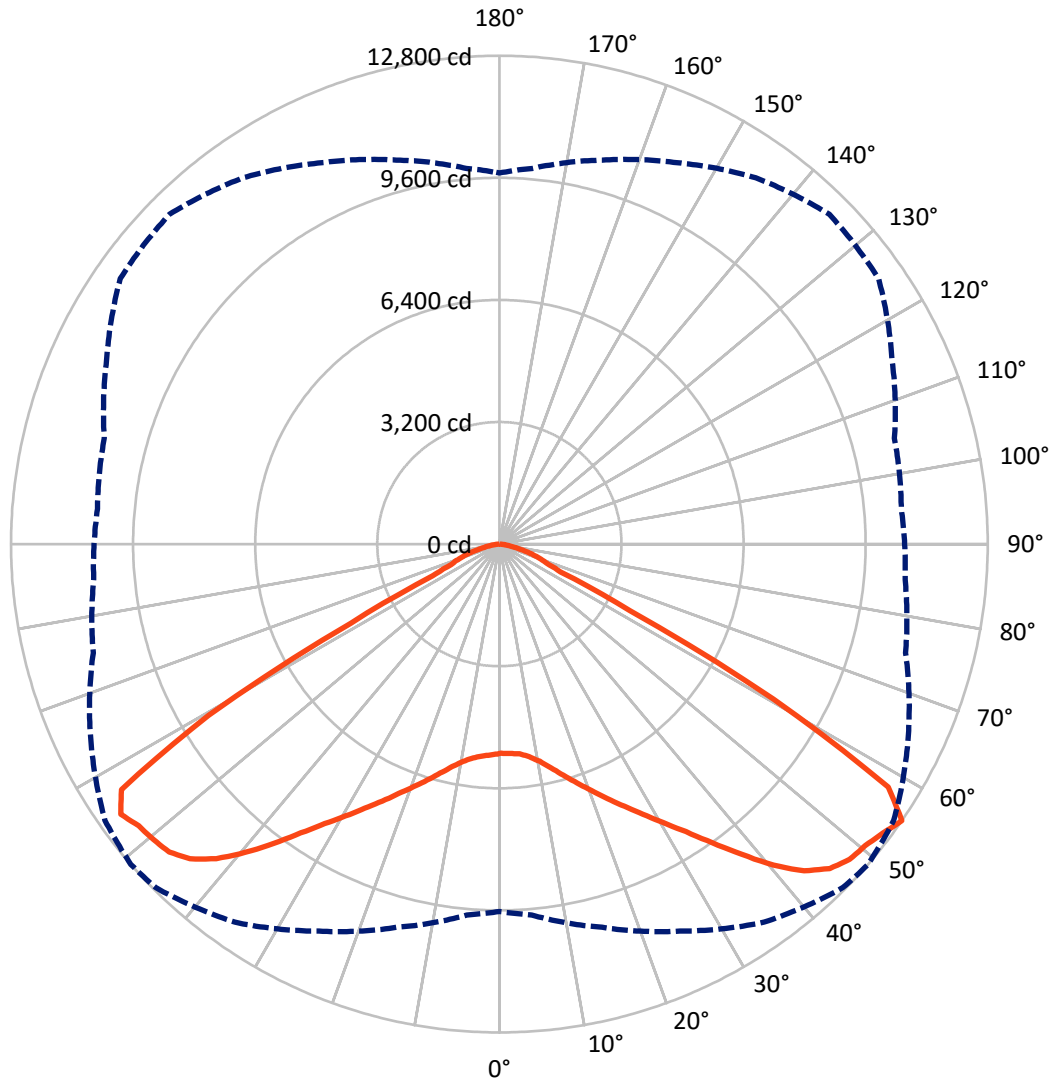


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16384.4	0.0	16384.4
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	16709.0	0.0	16709.0
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	33093.4	0.0	33093.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.8	1.6
10°-20°	1763.9	5.3
20°-30°	3359.8	10.2
30°-40°	5695.6	17.2
40°-50°	8571.4	25.9
50°-60°	9382.3	28.4
60°-70°	2966.7	9.0
70°-80°	712.0	2.2
80°-90°	106.9	0.3
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°	33093.4	100.0
0°-180°	33093.4	100.0

**Coefficient of Utilization**



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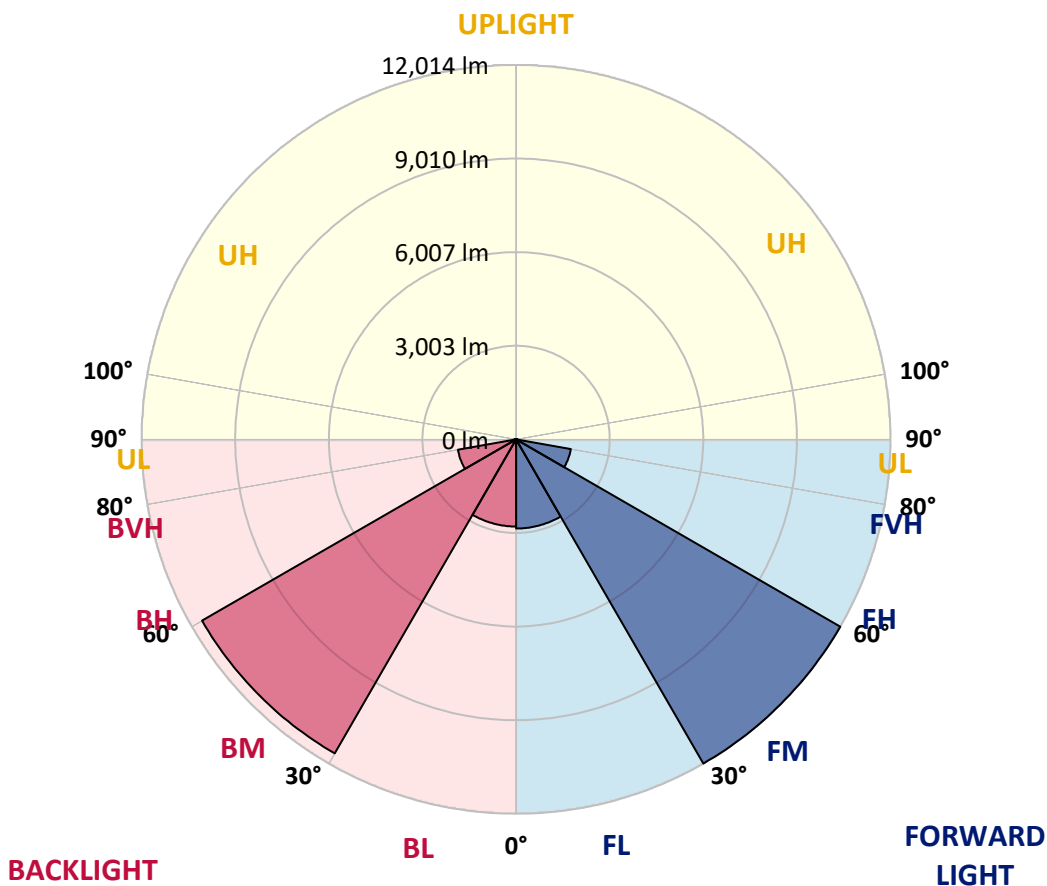
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.2	8.6			
FM (30°-60°)	12013.8	36.3			
FH (60°-80°)	1784.5	5.4			G1/1800
FVH (80°-90°)	49.5	0.1			G1/100
BL (0°-30°)	2797.3	8.5	B4/5000		
BM (30°-60°)	11635.5	35.2	B5		
BH (60°-80°)	1894.2	5.7	B3/2500		G2/5000
BVH (80°-90°)	57.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1
2.5°	5401.4	5406.8	5417.5	5436.4	5455.2	5482.1	5492.9	5506.3	5503.7	5519.8	5519.8
5°	5374.5	5382.5	5398.7	5425.6	5457.9	5509.0	5522.5	5554.8	5587.1	5627.5	5640.9
7.5°	5406.8	5417.5	5436.4	5479.4	5527.9	5595.2	5622.1	5675.9	5737.8	5810.5	5840.1
10°	5468.7	5482.1	5514.4	5584.4	5662.4	5764.7	5788.9	5856.2	5955.8	6055.4	6114.6
12.5°	5538.6	5560.2	5619.4	5729.7	5845.4	5980.0	6017.7	6101.1	6208.8	6337.9	6418.7
15°	5619.4	5638.2	5729.7	5885.8	6066.1	6243.8	6286.8	6367.6	6488.7	6615.1	6728.2
17.5°	5788.9	5821.2	5928.9	6109.2	6319.1	6529.0	6577.5	6669.0	6765.9	6865.4	6973.1
20°	6020.4	6047.3	6184.5	6407.9	6655.5	6846.6	6895.0	6975.8	7021.5	7072.7	7164.2
22.5°	6251.8	6289.5	6445.6	6709.3	7000.0	7207.2	7244.9	7320.3	7288.0	7271.8	7331.0
25°	6539.8	6590.9	6744.3	7032.3	7328.3	7584.0	7613.6	7678.2	7624.4	7540.9	7538.3
27.5°	6897.7	6943.5	7102.3	7398.3	7691.7	7958.1	8014.6	8100.7	7982.3	7880.0	7807.4
30°	7323.0	7352.6	7527.5	7842.4	8143.8	8396.8	8469.4	8555.6	8466.7	8297.2	8224.5
32.5°	7818.1	7858.5	8060.4	8391.4	8660.5	8913.5	8986.2	9093.8	8996.9	8805.8	8714.3
35°	8412.9	8453.3	8665.9	9026.5	9301.0	9562.1	9613.2	9702.0	9580.9	9360.2	9287.6
37.5°	9058.8	9110.0	9379.1	9720.9	10008.8	10313.0	10315.6	10342.6	10170.3	9895.8	9815.1
40°	9785.5	9852.7	10121.9	10477.1	10824.3	11071.9	11069.2	10993.8	10703.2	10278.0	10154.2
42.5°	10504.0	10557.9	10829.7	11195.7	11542.9	11777.0	11707.0	11524.0	11104.2	10525.6	10361.4
45°	11023.5	11063.8	11349.1	11760.9	12113.4	12258.7	12132.3	11911.6	11343.7	10681.7	10439.4
47.5°	11268.4	11322.2	11610.2	12019.2	12417.5	12501.0	12350.3	12143.0	11483.7	10827.0	10501.3
50°	11136.5	11206.5	11532.1	11911.6	12361.0	12533.3	12425.6	12218.4	11631.7	10969.6	10611.7
52.5°	10794.7	10862.0	11273.7	11733.9	12242.6	12584.4	12581.7	12412.1	11801.2	11010.0	10617.1
55°	9626.7	9758.6	10399.1	11193.0	12097.3	12735.1	12799.7	12619.4	11828.1	11020.8	10673.6
57.5°	6265.3	6496.7	7105.0	8138.4	9952.3	11583.2	12019.2	12062.3	11634.4	10975.0	10684.4
60°	2615.9	2801.6	3283.4	3969.6	5468.7	7409.1	8254.1	9101.9	10124.6	10496.0	10584.8
62.5°	1625.5	1641.7	1690.1	1846.2	2346.8	3294.1	3837.8	4631.7	6152.2	7446.8	8044.2
65°	1466.7	1474.8	1485.6	1474.8	1499.0	1614.8	1760.1	2037.3	2656.3	3299.5	4063.8
67.5°	1291.8	1302.6	1310.6	1302.6	1310.6	1316.0	1332.2	1356.4	1469.4	1560.9	1630.9
70°	1044.2	1060.4	1073.8	1068.4	1100.7	1100.7	1116.9	1135.7	1192.2	1259.5	1308.0
72.5°	796.6	783.2	799.3	804.7	834.3	850.4	874.7	896.2	960.8	1001.2	1063.1
75°	516.7	503.3	527.5	540.9	581.3	602.8	624.4	645.9	691.7	718.6	777.8
77.5°	279.9	277.2	301.4	320.3	363.3	390.2	406.4	422.5	460.2	468.3	506.0
80°	161.5	161.5	177.6	191.1	218.0	247.6	263.7	277.2	304.1	312.2	328.3
82.5°	88.8	88.8	96.9	105.0	126.5	142.6	156.1	166.9	191.1	199.2	207.2
85°	43.1	40.4	45.8	51.1	59.2	67.3	75.4	80.7	99.6	105.0	115.7
87.5°	5.4	5.4	5.4	8.1	10.8	16.1	18.8	18.8	29.6	35.0	40.4
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°	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1	5482.1
2.5°	5535.9	5501.0	5522.5	5530.6	5530.6	5522.5	5487.5	5476.7	5460.6	5436.4	5436.4
5°	5659.7	5632.8	5638.2	5624.8	5592.5	5552.1	5487.5	5455.2	5428.3	5398.7	5396.0
7.5°	5872.4	5837.4	5832.0	5780.9	5694.7	5608.6	5511.7	5452.5	5412.1	5374.5	5371.8
10°	6149.6	6117.3	6076.9	5974.6	5848.1	5721.6	5589.8	5509.0	5449.8	5396.0	5393.3
12.5°	6459.1	6421.4	6346.0	6195.3	6036.5	5912.7	5762.0	5638.2	5549.4	5476.7	5463.3
15°	6795.5	6741.6	6612.5	6434.8	6278.7	6146.9	5985.4	5807.8	5673.2	5557.5	5544.0
17.5°	7053.8	6983.9	6843.9	6677.0	6547.9	6416.0	6206.1	5982.7	5788.9	5643.6	5622.1
20°	7231.4	7174.9	7016.1	6892.3	6817.0	6701.3	6456.4	6203.4	5985.4	5802.4	5791.6
22.5°	7395.6	7328.3	7172.2	7099.6	7099.6	7021.5	6787.4	6488.7	6233.0	6020.4	5993.5
25°	7581.3	7508.7	7390.2	7382.2	7419.8	7384.9	7102.3	6782.0	6483.3	6243.8	6200.7
27.5°	7839.7	7758.9	7689.0	7737.4	7791.2	7753.6	7438.7	7067.3	6752.4	6510.2	6472.5
30°	8251.4	8151.9	8087.3	8146.5	8251.4	8141.1	7799.3	7406.4	7088.8	6822.4	6803.5
32.5°	8730.5	8617.5	8550.2	8644.4	8738.6	8566.3	8227.2	7850.4	7516.7	7236.8	7204.5
35°	9306.4	9163.8	9064.2	9190.7	9287.6	9118.0	8781.6	8423.7	8052.3	7761.6	7718.6
37.5°	9817.8	9645.5	9578.2	9755.9	9885.0	9774.7	9408.7	9072.3	8665.9	8348.3	8329.5
40°	10189.2	10019.6	9971.2	10264.5	10490.6	10463.7	10135.3	9750.5	9368.3	9002.3	8967.3
42.5°	10350.6	10232.2	10243.0	10638.6	10988.5	11160.7	10867.4	10455.6	10086.9	9707.4	9683.2
45°	10385.6	10313.0	10399.1	10894.3	11354.5	11707.0	11456.7	11112.3	10695.1	10329.1	10318.3
47.5°	10423.3	10382.9	10514.8	11039.6	11585.9	11995.0	11855.1	11499.8	11077.3	10719.3	10692.4
50°	10512.1	10496.0	10644.0	11141.9	11696.3	12073.0	11914.3	11561.7	11128.4	10775.9	10711.3
52.5°	10539.0	10512.1	10724.7	11300.7	11879.3	12070.4	11728.6	11268.4	10832.4	10439.4	10372.2
55°	10622.5	10574.0	10719.3	11359.9	12132.3	12226.5	11717.8	11028.8	10420.6	9885.0	9726.3
57.5°	10644.0	10590.2	10684.4	11263.0	11857.7	11774.3	10299.5	8900.0	7753.6	7158.8	7226.1
60°	10528.3	10544.4	10382.9	10318.3	9511.0	8396.8	6305.7	5040.8	3958.9	3501.3	3600.9
62.5°	8014.6	8081.9	7530.2	6547.9	5035.4	3991.2	2640.1	2050.7	1735.9	1655.1	1668.6
65°	4045.0	4136.5	3563.2	2946.9	2190.7	1770.9	1531.3	1482.9	1466.7	1447.9	1447.9
67.5°	1601.3	1628.2	1606.7	1504.4	1399.5	1361.8	1351.0	1345.6	1326.8	1316.0	1318.7
70°	1286.4	1308.0	1275.7	1211.1	1168.0	1165.3	1159.9	1149.2	1135.7	1135.7	1143.8
72.5°	1049.6	1071.1	1025.4	985.0	952.7	928.5	915.0	907.0	888.1	888.1	896.2
75°	772.4	785.9	748.2	742.8	707.8	683.6	662.1	651.3	627.1	616.3	624.4
77.5°	514.0	511.3	492.5	492.5	479.0	449.4	425.2	401.0	368.7	347.2	352.6
80°	333.7	333.7	325.6	325.6	312.2	288.0	258.4	234.1	215.3	199.2	199.2
82.5°	212.6	209.9	207.2	204.5	199.2	174.9	153.4	137.3	123.8	113.0	115.7
85°	118.4	118.4	113.0	113.0	102.3	88.8	78.0	67.3	59.2	56.5	56.5
87.5°	40.4	40.4	37.7	37.7	32.3	24.2	18.8	16.1	13.5	10.8	13.5
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)