

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: P640832

Luminaire Tested: GWS-SA5E-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640832  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

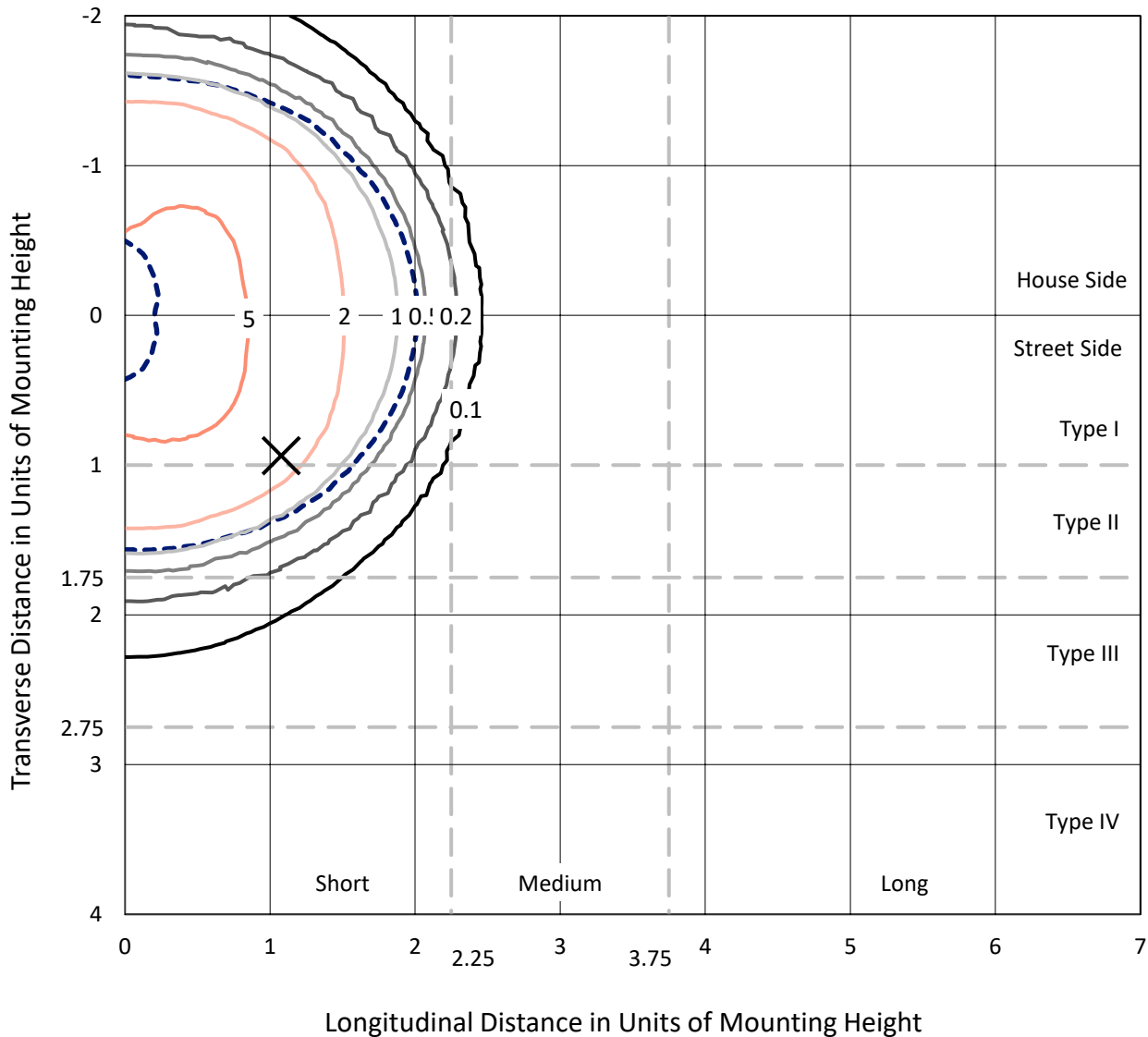
Lumens per Lamp: N/A  
Luminaire Lumens: 33387.9 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

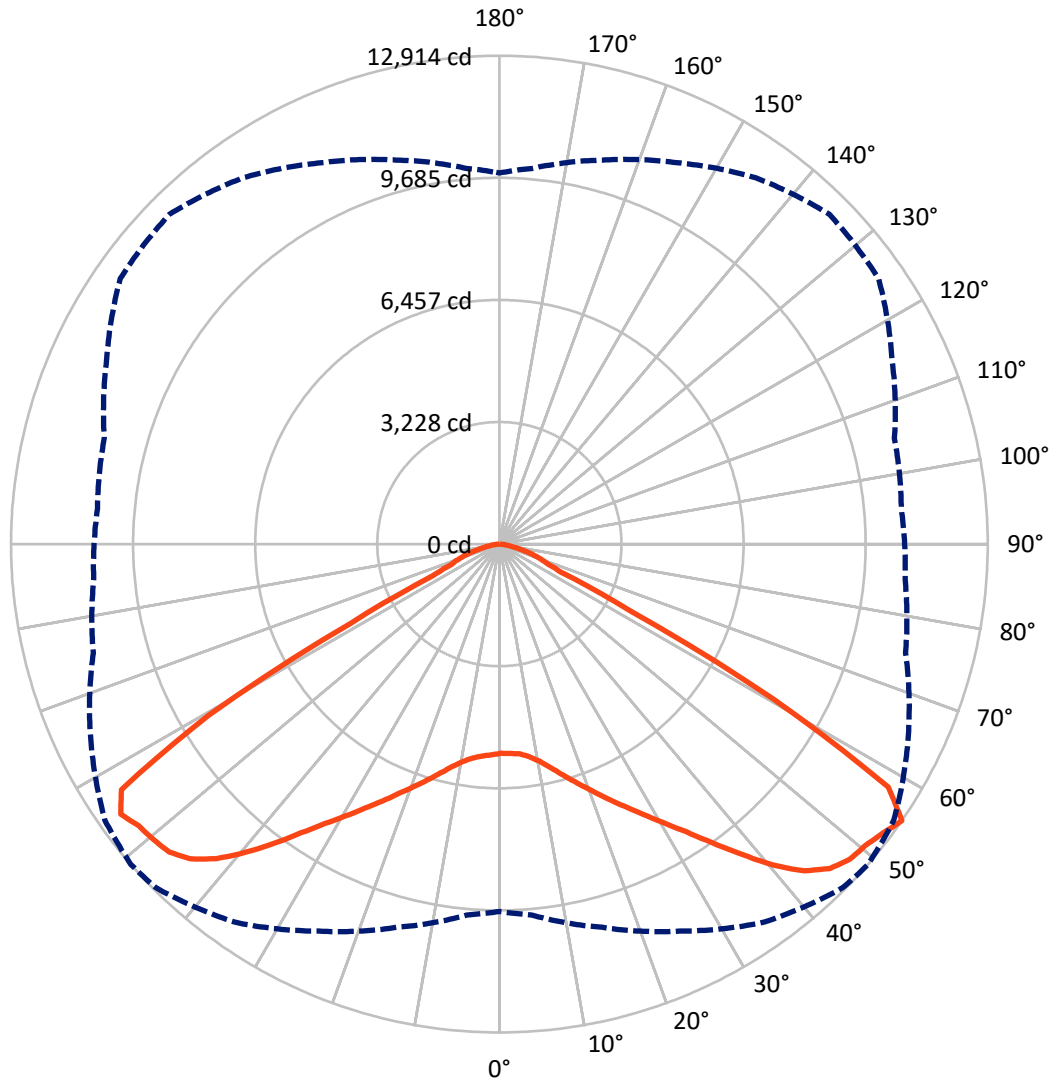
✕ Max cd  
 - - - 1/2 Max cd



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	16530.2	0.0	16530.2
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	16857.7	0.0	16857.7
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	33387.9	0.0	33387.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.5	1.6
10°-20°	1779.6	5.3
20°-30°	3389.7	10.2
30°-40°	5746.3	17.2
40°-50°	8647.7	25.9
50°-60°	9465.8	28.4
60°-70°	2993.1	9.0
70°-80°	718.4	2.2
80°-90°	107.8	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°	33387.9	100.0
0°-180°	33387.9	100.0

**Coefficient of Utilization**



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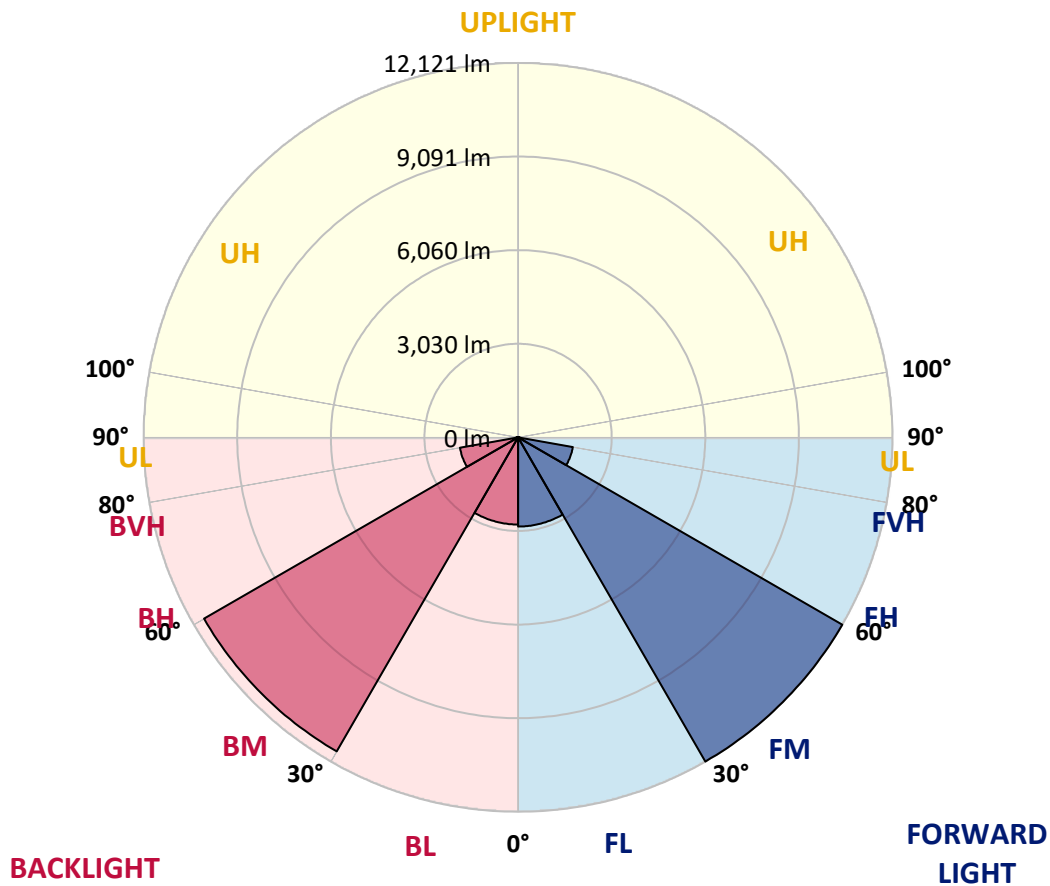
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2886.7	8.6			
FM (30°-60°)	12120.7	36.3			
FH (60°-80°)	1800.4	5.4			G2/5000
FVH (80°-90°)	49.9	0.1			G1/100
BL (0°-30°)	2822.2	8.5	B4/5000		
BM (30°-60°)	11739.0	35.2	B5		
BH (60°-80°)	1911.1	5.7	B3/2500		G2/5000
BVH (80°-90°)	57.9	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°	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9
2.5°	5449.5	5454.9	5465.7	5484.7	5503.8	5530.9	5541.8	5555.3	5552.6	5568.9	5568.9
5°	5422.3	5430.4	5446.7	5473.9	5506.5	5558.1	5571.6	5604.2	5636.8	5677.5	5691.1
7.5°	5454.9	5465.7	5484.7	5528.2	5577.1	5644.9	5672.1	5726.4	5788.9	5862.2	5892.0
10°	5517.3	5530.9	5563.5	5634.1	5712.8	5816.0	5840.4	5908.3	6008.8	6109.3	6169.0
12.5°	5587.9	5609.6	5669.4	5780.7	5897.5	6033.2	6071.2	6155.4	6264.0	6394.3	6475.8
15°	5669.4	5688.4	5780.7	5938.2	6120.1	6299.3	6342.8	6424.2	6546.4	6674.0	6788.1
17.5°	5840.4	5873.0	5981.6	6163.6	6375.3	6587.1	6636.0	6728.3	6826.1	6926.5	7035.1
20°	6074.0	6101.1	6239.6	6464.9	6714.7	6907.5	6956.4	7037.9	7084.0	7135.6	7227.9
22.5°	6307.5	6345.5	6503.0	6769.0	7062.3	7271.4	7309.4	7385.4	7352.8	7336.5	7396.3
25°	6598.0	6649.6	6804.3	7094.9	7393.6	7651.5	7681.4	7746.5	7692.2	7608.1	7605.3
27.5°	6959.1	7005.3	7165.5	7464.1	7760.1	8028.9	8085.9	8172.8	8053.3	7950.2	7876.9
30°	7388.1	7418.0	7594.5	7912.2	8216.3	8471.5	8544.8	8631.7	8542.1	8371.0	8297.7
32.5°	7887.7	7928.4	8132.1	8466.1	8737.6	8992.8	9066.1	9174.7	9077.0	8884.2	8791.9
35°	8487.8	8528.5	8743.0	9106.9	9383.8	9647.2	9698.8	9788.4	9666.2	9443.5	9370.2
37.5°	9139.4	9191.0	9462.6	9807.4	10097.9	10404.7	10407.4	10434.6	10260.8	9983.9	9902.4
40°	9872.5	9940.4	10212.0	10570.4	10920.6	11170.4	11167.7	11091.7	10798.4	10369.4	10244.5
42.5°	10597.5	10651.8	10926.1	11295.3	11645.6	11881.8	11811.2	11626.6	11203.0	10619.2	10453.6
45°	11121.6	11162.3	11450.1	11865.5	12221.2	12367.8	12240.2	12017.6	11444.7	10776.7	10532.3
47.5°	11368.6	11422.9	11713.5	12126.2	12528.0	12612.2	12460.2	12251.1	11585.9	10923.3	10594.8
50°	11235.6	11306.2	11634.7	12017.6	12471.0	12644.8	12536.2	12327.1	11735.2	11067.2	10706.1
52.5°	10890.8	10958.6	11374.1	11838.4	12351.5	12696.4	12693.7	12522.6	11906.3	11108.0	10711.6
55°	9712.4	9845.4	10491.6	11292.6	12204.9	12848.4	12913.6	12731.7	11933.4	11118.8	10768.6
57.5°	6321.0	6554.5	7168.2	8210.8	10040.9	11686.3	12126.2	12169.6	11737.9	11072.7	10779.4
60°	2639.2	2826.5	3312.6	4005.0	5517.3	7475.0	8327.6	9182.9	10214.7	10589.4	10679.0
62.5°	1640.0	1656.3	1705.2	1862.6	2367.7	3323.4	3871.9	4672.9	6207.0	7513.0	8115.8
65°	1479.8	1487.9	1498.8	1487.9	1512.4	1629.1	1775.8	2055.4	2679.9	3328.9	4100.0
67.5°	1303.3	1314.2	1322.3	1314.2	1322.3	1327.7	1344.0	1368.5	1482.5	1574.8	1645.4
70°	1053.5	1069.8	1083.4	1077.9	1110.5	1110.5	1126.8	1145.8	1202.8	1270.7	1319.6
72.5°	803.7	790.1	806.4	811.9	841.7	858.0	882.4	904.2	969.3	1010.1	1072.5
75°	521.3	507.7	532.2	545.8	586.5	608.2	629.9	651.7	697.8	725.0	784.7
77.5°	282.4	279.7	304.1	323.1	366.6	393.7	410.0	426.3	464.3	472.4	510.5
80°	162.9	162.9	179.2	192.8	219.9	249.8	266.1	279.7	306.8	315.0	331.3
82.5°	89.6	89.6	97.7	105.9	127.6	143.9	157.5	168.3	192.8	200.9	209.1
85°	43.4	40.7	46.2	51.6	59.7	67.9	76.0	81.5	100.5	105.9	116.8
87.5°	5.4	5.4	5.4	8.1	10.9	16.3	19.0	19.0	29.9	35.3	40.7
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°	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9
2.5°	5585.2	5549.9	5571.6	5579.8	5579.8	5571.6	5536.3	5525.5	5509.2	5484.7	5484.7
5°	5710.1	5683.0	5688.4	5674.8	5642.2	5601.5	5536.3	5503.8	5476.6	5446.7	5444.0
7.5°	5924.6	5889.3	5883.9	5832.3	5745.4	5658.5	5560.8	5501.0	5460.3	5422.3	5419.6
10°	6204.3	6171.7	6131.0	6027.8	5900.2	5772.6	5639.5	5558.1	5498.3	5444.0	5441.3
12.5°	6516.5	6478.5	6402.5	6250.4	6090.2	5965.3	5813.3	5688.4	5598.8	5525.5	5511.9
15°	6855.9	6801.6	6671.3	6492.1	6334.6	6201.6	6038.7	5859.5	5723.7	5606.9	5593.4
17.5°	7116.6	7046.0	6904.8	6736.5	6606.1	6473.1	6261.3	6035.9	5840.4	5693.8	5672.1
20°	7295.8	7238.8	7078.6	6953.7	6877.7	6760.9	6513.8	6258.6	6038.7	5854.0	5843.2
22.5°	7461.4	7393.6	7236.1	7162.8	7162.8	7084.0	6847.8	6546.4	6288.5	6074.0	6046.8
25°	7648.8	7575.5	7456.0	7447.9	7485.9	7450.6	7165.5	6842.4	6541.0	6299.3	6255.9
27.5°	7909.4	7828.0	7757.4	7806.3	7860.6	7822.6	7504.9	7130.2	6812.5	6568.1	6530.1
30°	8324.9	8224.4	8159.2	8219.0	8324.9	8213.5	7868.7	7472.3	7151.9	6883.1	6864.1
32.5°	8808.2	8694.1	8626.3	8721.3	8816.3	8642.6	8300.4	7920.3	7583.6	7301.2	7268.7
35°	9389.2	9245.3	9144.9	9272.5	9370.2	9199.2	8859.8	8498.6	8123.9	7830.7	7787.3
37.5°	9905.1	9731.4	9663.5	9842.7	9973.0	9861.7	9492.4	9153.0	8743.0	8422.6	8403.6
40°	10279.8	10108.8	10059.9	10355.9	10583.9	10556.8	10225.5	9837.3	9451.7	9082.4	9047.1
42.5°	10442.7	10323.3	10334.1	10733.3	11086.3	11260.0	10964.1	10548.6	10176.7	9793.8	9769.4
45°	10478.0	10404.7	10491.6	10991.2	11455.5	11811.2	11558.7	11211.2	10790.3	10421.0	10410.2
47.5°	10516.1	10475.3	10608.4	11137.8	11689.0	12101.7	11960.6	11602.1	11175.9	10814.7	10787.6
50°	10605.7	10589.4	10738.7	11241.0	11800.4	12180.5	12020.3	11664.6	11227.4	10871.8	10806.6
52.5°	10632.8	10605.7	10820.2	11401.2	11985.0	12177.8	11832.9	11368.6	10928.8	10532.3	10464.5
55°	10717.0	10668.1	10814.7	11461.0	12240.2	12335.3	11822.1	11127.0	10513.3	9973.0	9812.8
57.5°	10738.7	10684.4	10779.4	11363.2	11963.3	11879.1	10391.2	8979.2	7822.6	7222.5	7290.4
60°	10622.0	10638.2	10475.3	10410.2	9595.6	8471.5	6361.8	5085.6	3994.1	3532.5	3633.0
62.5°	8085.9	8153.8	7597.2	6606.1	5080.2	4026.7	2663.6	2069.0	1751.3	1669.9	1683.4
65°	4081.0	4173.3	3595.0	2973.2	2210.2	1786.6	1545.0	1496.1	1479.8	1460.8	1460.8
67.5°	1615.6	1642.7	1621.0	1517.8	1411.9	1373.9	1363.0	1357.6	1338.6	1327.7	1330.5
70°	1297.9	1319.6	1287.0	1221.9	1178.4	1175.7	1170.3	1159.4	1145.8	1145.8	1154.0
72.5°	1058.9	1080.7	1034.5	993.8	961.2	936.8	923.2	915.0	896.0	896.0	904.2
75°	779.3	792.8	754.8	749.4	714.1	689.7	667.9	657.1	632.6	621.8	629.9
77.5°	518.6	515.9	496.9	496.9	483.3	453.4	429.0	404.6	372.0	350.3	355.7
80°	336.7	336.7	328.5	328.5	315.0	290.5	260.7	236.2	217.2	200.9	200.9
82.5°	214.5	211.8	209.1	206.4	200.9	176.5	154.8	138.5	124.9	114.0	116.8
85°	119.5	119.5	114.0	114.0	103.2	89.6	78.7	67.9	59.7	57.0	57.0
87.5°	40.7	40.7	38.0	38.0	32.6	24.4	19.0	16.3	13.6	10.9	13.6
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)