

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: P642753

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-750-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

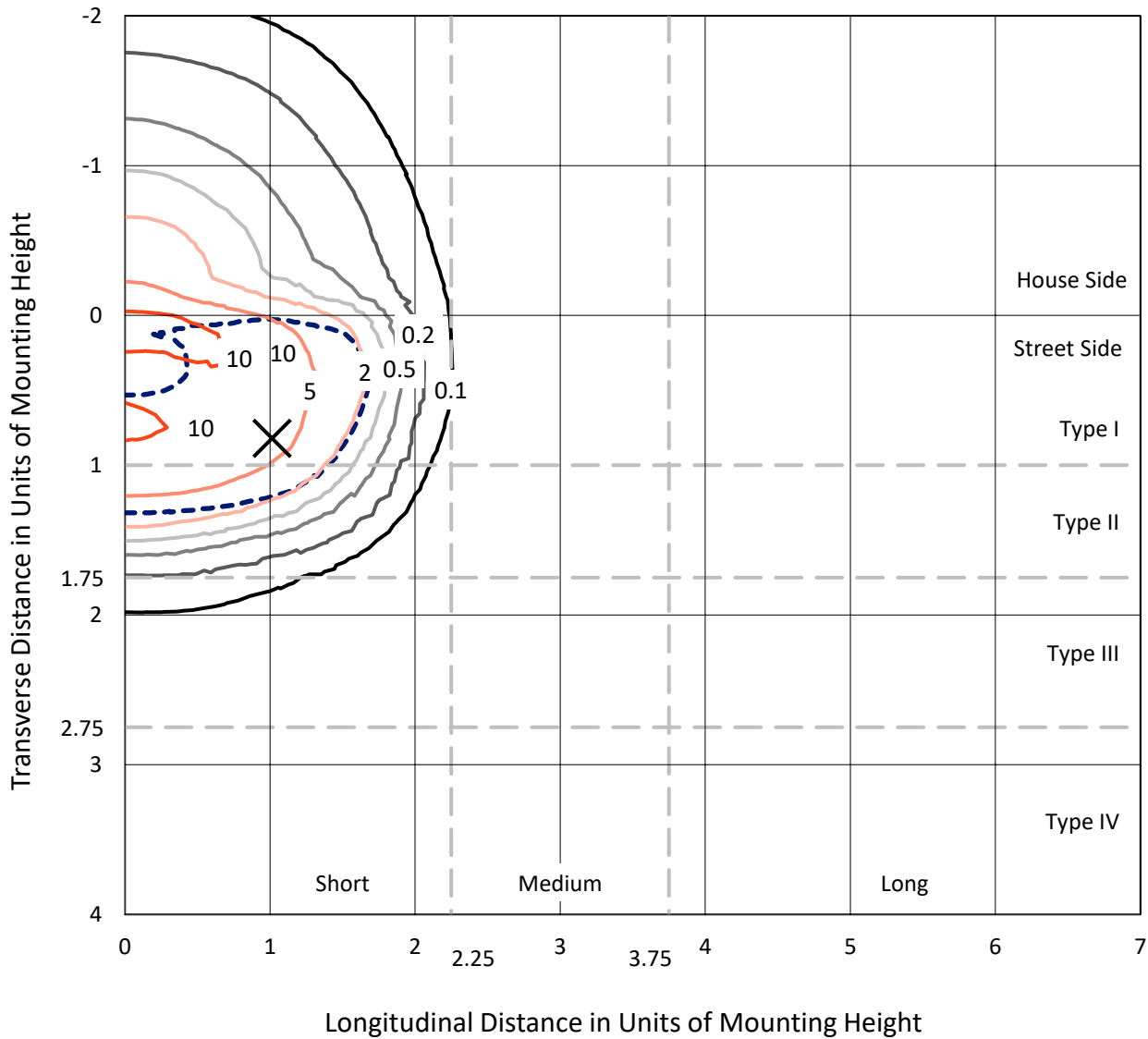
Lumens per Lamp: N/A  
Luminaire Lumens: 33242.1 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

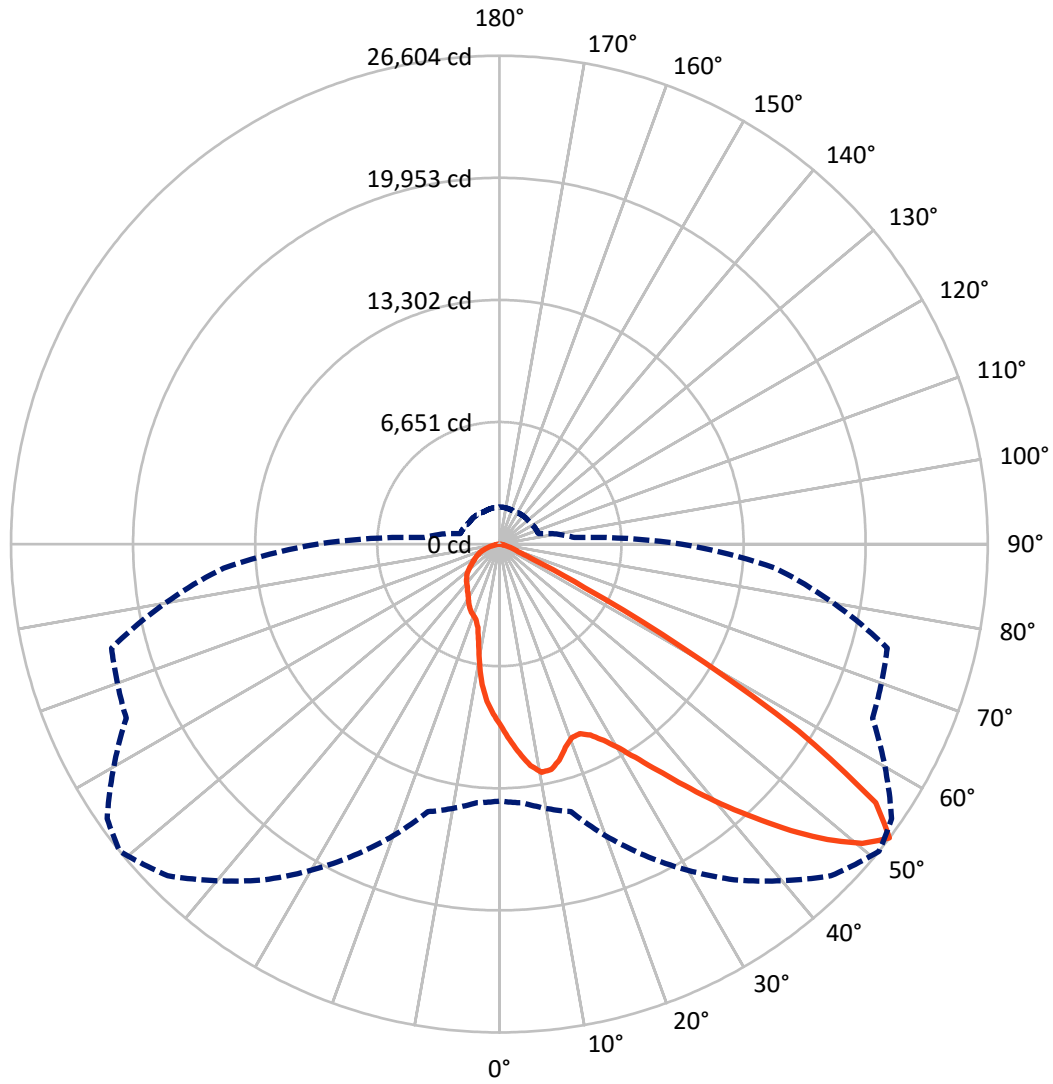
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6477.0	0.0	6477.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	26765.1	0.0	26765.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	33242.1	0.0	33242.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.6	2.8
10°-20°	2399.9	7.2
20°-30°	3902.0	11.7
30°-40°	6183.8	18.6
40°-50°	9326.6	28.1
50°-60°	8068.2	24.3
60°-70°	1829.1	5.5
70°-80°	539.3	1.6
80°-90°	69.5	0.2
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°	33242.1	100.0
0°-180°	33242.1	100.0

**Coefficient of Utilization**



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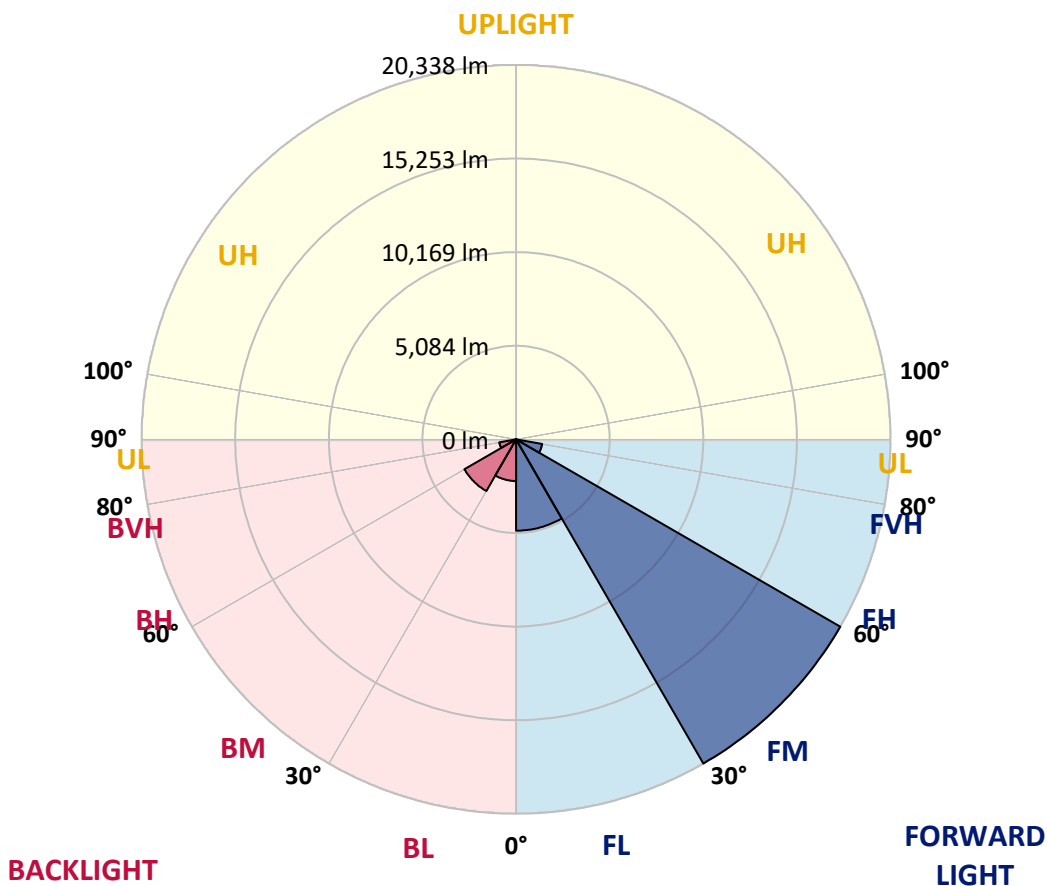
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4961.5	14.9			
FM (30°-60°)	20338.0	61.2			
FH (60°-80°)	1439.5	4.3			G1/1800
FVH (80°-90°)	26.2	0.1			G1/100
BL (0°-30°)	2264.1	6.8	B3/2500		
BM (30°-60°)	3240.6	9.7	B3/5000		
BH (60°-80°)	929.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	43.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8
2.5°	11030.0	11093.0	10995.8	10959.1	10898.6	10793.6	10672.7	10638.6	10378.5	10207.8	10016.0
5°	12138.5	12172.7	12093.8	12015.0	11865.3	11678.8	11445.0	11395.1	10922.3	10530.9	10123.7
7.5°	12385.4	12372.3	12440.6	12485.2	12466.9	12393.3	12185.8	12088.6	11523.8	10903.9	10302.4
10°	11408.2	11334.7	11586.9	11886.3	12246.2	12661.2	12637.6	12629.7	12138.5	11405.6	10530.9
12.5°	10113.2	10076.5	10281.3	10657.0	11337.3	12256.7	12600.8	12868.8	12692.8	11883.7	10785.7
15°	9372.5	9359.3	9498.6	9769.1	10310.2	11471.3	12206.8	12737.4	13168.2	12395.9	11056.3
17.5°	9238.5	9246.4	9293.7	9448.6	9837.4	10793.6	11644.7	12385.4	13538.6	12958.1	11395.1
20°	9629.9	9682.4	9601.0	9624.6	9834.8	10549.3	11261.1	12030.8	13775.0	13522.8	11760.2
22.5°	10499.4	10481.0	10302.4	10197.3	10199.9	10699.0	11219.1	11865.3	13930.0	14071.8	12091.2
25°	11484.4	11463.4	11250.6	11016.9	10869.8	11106.2	11521.2	12041.3	14069.2	14573.6	12356.5
27.5°	12648.1	12582.4	12346.0	12046.6	11720.8	11823.3	12104.4	12516.8	14284.6	15067.4	12532.5
30°	13775.0	13851.2	13512.3	13157.7	12813.6	12750.6	12913.4	13286.4	14723.3	15645.3	12742.7
32.5°	15269.7	15243.4	14867.8	14405.4	13914.2	13866.9	13995.7	14337.1	15511.3	16443.8	13063.1
35°	17079.5	17084.8	16551.5	15926.4	15227.6	15101.5	15316.9	15647.9	16685.5	17526.1	13570.1
37.5°	18960.3	18952.5	18487.5	17778.3	16824.7	16646.1	16893.0	17140.0	18153.9	18999.7	14358.2
40°	20279.0	20331.5	20113.5	19740.5	18836.9	18400.8	18618.9	18789.6	19751.0	20733.4	15395.8
42.5°	21027.6	21106.4	21153.7	21377.0	20901.6	20436.6	20357.8	20447.1	21177.4	22343.7	16370.3
45°	21187.9	21292.9	21637.1	22464.5	22648.4	22517.0	22259.6	22044.2	22241.2	23486.3	17008.6
47.5°	20481.3	20665.1	21400.6	22848.0	23922.4	24334.8	24048.5	23720.1	22855.9	23780.5	16942.9
50°	17681.1	17896.5	19554.0	22065.2	24103.6	25606.2	25632.4	25146.5	22782.3	22932.1	16118.1
52.5°	13998.3	14145.4	15093.7	18705.5	22325.3	25553.6	26604.4	26084.3	22427.7	21870.8	15085.8
55°	8366.4	8602.8	9488.0	12340.8	17392.1	22648.4	24886.4	25138.6	22254.4	20980.4	14381.8
57.5°	2823.8	2939.4	3785.2	5450.6	10249.8	16583.1	19228.3	20252.7	20202.8	19619.7	13008.0
60°	1344.9	1371.2	1541.9	2067.3	4103.1	8665.9	11382.0	12564.0	13641.0	13748.7	8093.2
62.5°	1024.5	1040.2	1126.9	1239.9	1649.6	3651.3	5216.9	6120.5	6538.1	5610.9	2947.3
65°	856.3	869.5	935.1	1006.1	1121.6	1581.3	2001.6	2309.0	2080.4	1620.7	1405.3
67.5°	714.5	725.0	774.9	851.1	929.9	1058.6	1111.1	1142.7	1197.8	1344.9	1292.4
70°	559.5	570.0	622.6	688.2	764.4	795.9	845.8	877.4	987.7	1176.8	1171.6
72.5°	430.8	443.9	472.8	514.9	577.9	609.4	664.6	701.4	764.4	916.8	979.8
75°	315.2	323.1	349.4	362.5	370.4	362.5	417.7	459.7	543.8	601.5	617.3
77.5°	128.7	144.5	139.2	139.2	165.5	199.6	228.5	254.8	312.6	346.7	349.4
80°	52.5	57.8	68.3	76.2	91.9	118.2	136.6	147.1	173.4	194.4	210.1
82.5°	31.5	34.1	39.4	42.0	52.5	68.3	78.8	86.7	107.7	128.7	136.6
85°	15.8	15.8	18.4	21.0	26.3	31.5	36.8	42.0	55.2	68.3	76.2
87.5°	2.6	2.6	2.6	5.3	7.9	10.5	13.1	15.8	18.4	21.0	26.3
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°	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8
2.5°	9903.1	9761.2	9595.7	9464.4	9312.1	9199.1	9038.9	8939.0	8844.5	8765.7	8707.9
5°	9913.6	9674.6	9330.4	9025.7	8710.5	8411.1	8103.7	7854.2	7630.9	7444.4	7428.6
7.5°	9974.0	9629.9	9091.4	8558.2	7943.5	7349.8	6756.2	6272.8	5905.1	5713.3	5673.9
10°	10076.5	9624.6	8847.1	7996.0	6947.9	5991.8	5287.8	4920.0	4707.2	4631.1	4604.8
12.5°	10184.2	9611.5	8534.5	7202.7	5747.5	4909.5	4523.4	4478.7	4518.1	4523.4	4520.7
15°	10315.5	9603.6	8140.5	6272.8	4870.1	4407.8	4434.1	4528.6	4620.6	4641.6	4641.6
17.5°	10475.7	9585.2	7604.6	5364.0	4321.1	4310.6	4449.8	4575.9	4662.6	4678.4	4678.4
20°	10643.8	9538.0	6945.3	4623.2	4097.8	4250.2	4399.9	4497.1	4557.5	4578.5	4581.2
22.5°	10759.4	9411.9	6186.1	4074.2	3958.6	4134.6	4242.3	4342.1	4342.1	4289.6	4273.8
25°	10783.1	9141.3	5364.0	3698.6	3793.1	3956.0	4066.3	4008.5	3900.8	3858.8	3856.2
27.5°	10696.4	8747.3	4552.3	3430.6	3593.5	3756.3	3738.0	3653.9	3606.6	3564.6	3580.3
30°	10591.3	8274.5	3848.3	3210.0	3362.3	3522.6	3459.5	3430.6	3396.5	3349.2	3359.7
32.5°	10520.4	7746.5	3307.2	3039.2	3207.3	3233.6	3278.3	3275.6	3244.1	3154.8	3149.5
35°	10541.4	7213.2	2944.7	2900.0	3078.6	3068.1	3152.2	3136.4	2918.4	2794.9	2787.0
37.5°	10709.5	6701.0	2731.9	2789.7	2873.7	2939.4	3013.0	2823.8	2747.6	2668.8	2674.1
40°	11030.0	6225.5	2616.3	2729.3	2750.3	2847.5	2676.7	2674.1	2639.9	2569.0	2566.4
42.5°	11392.5	5823.6	2537.5	2700.4	2671.5	2689.9	2508.6	2529.6	2527.0	2482.3	2469.2
45°	11613.1	5453.3	2474.5	2592.7	2600.5	2416.7	2361.5	2385.1	2398.3	2374.6	2372.0
47.5°	11384.6	5027.7	2408.8	2427.2	2495.5	2293.2	2224.9	2227.5	2251.2	2253.8	2243.3
50°	10743.7	4552.3	2330.0	2285.3	2240.7	2164.5	2101.5	2088.3	2112.0	2135.6	2143.5
52.5°	9916.2	4097.8	2198.6	2130.3	2025.3	2025.3	1996.4	1954.3	1985.9	2017.4	2027.9
55°	9309.4	3761.6	2012.1	1936.0	1820.4	1859.8	1854.5	1817.8	1859.8	1883.4	1891.3
57.5°	8066.9	3023.5	1770.5	1746.8	1649.6	1696.9	1707.4	1660.1	1639.1	1644.4	1652.3
60°	4788.7	1951.7	1597.1	1594.5	1507.8	1563.0	1594.5	1547.2	1484.1	1492.0	1502.5
62.5°	2148.7	1492.0	1379.1	1368.6	1365.9	1436.9	1471.0	1426.4	1337.0	1344.9	1355.4
65°	1352.8	1289.8	1197.8	1197.8	1239.9	1300.3	1326.5	1289.8	1187.3	1174.2	1184.7
67.5°	1255.6	1200.5	1105.9	1087.5	1108.5	1158.4	1161.1	1090.1	1029.7	1019.2	1019.2
70°	1126.9	1084.9	992.9	956.2	948.3	945.7	937.8	919.4	880.0	869.5	874.7
72.5°	932.5	903.6	845.8	806.4	785.4	782.8	751.3	735.5	701.4	696.1	693.5
75°	617.3	625.2	625.2	619.9	601.5	593.7	559.5	543.8	504.3	488.6	486.0
77.5°	365.1	373.0	383.5	386.1	383.5	383.5	352.0	333.6	294.2	273.2	267.9
80°	223.3	228.5	233.8	241.7	231.2	223.3	194.4	176.0	157.6	144.5	141.8
82.5°	144.5	149.7	152.4	157.6	152.4	141.8	118.2	107.7	94.6	84.1	81.4
85°	81.4	84.1	89.3	89.3	81.4	73.6	60.4	52.5	44.7	39.4	39.4
87.5°	28.9	28.9	28.9	31.5	26.3	23.6	15.8	10.5	7.9	7.9	7.9
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)