

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: P643305

Luminaire Tested: GWS-SA6E-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

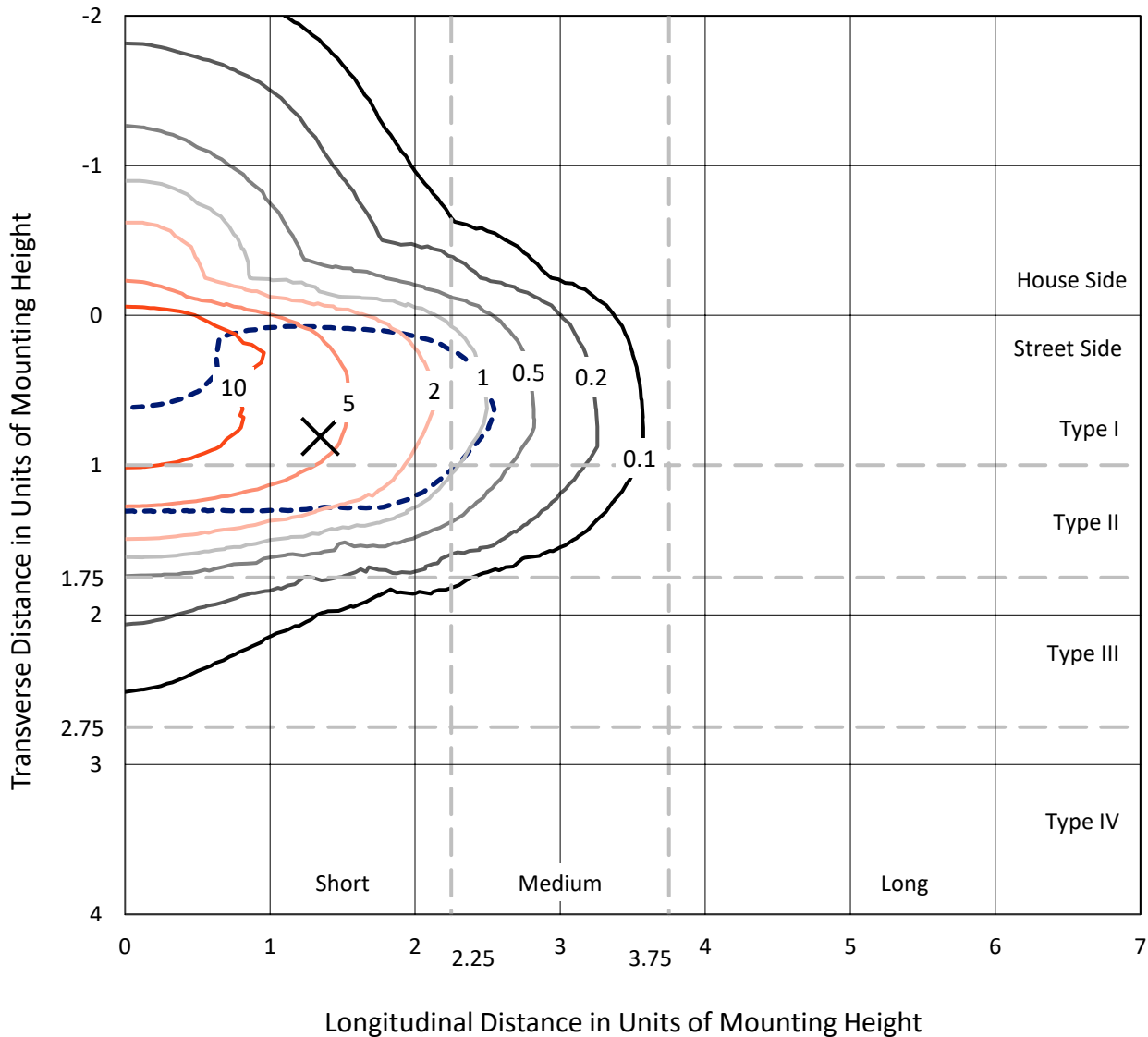
Lumens per Lamp: N/A  
Luminaire Lumens: 45990 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

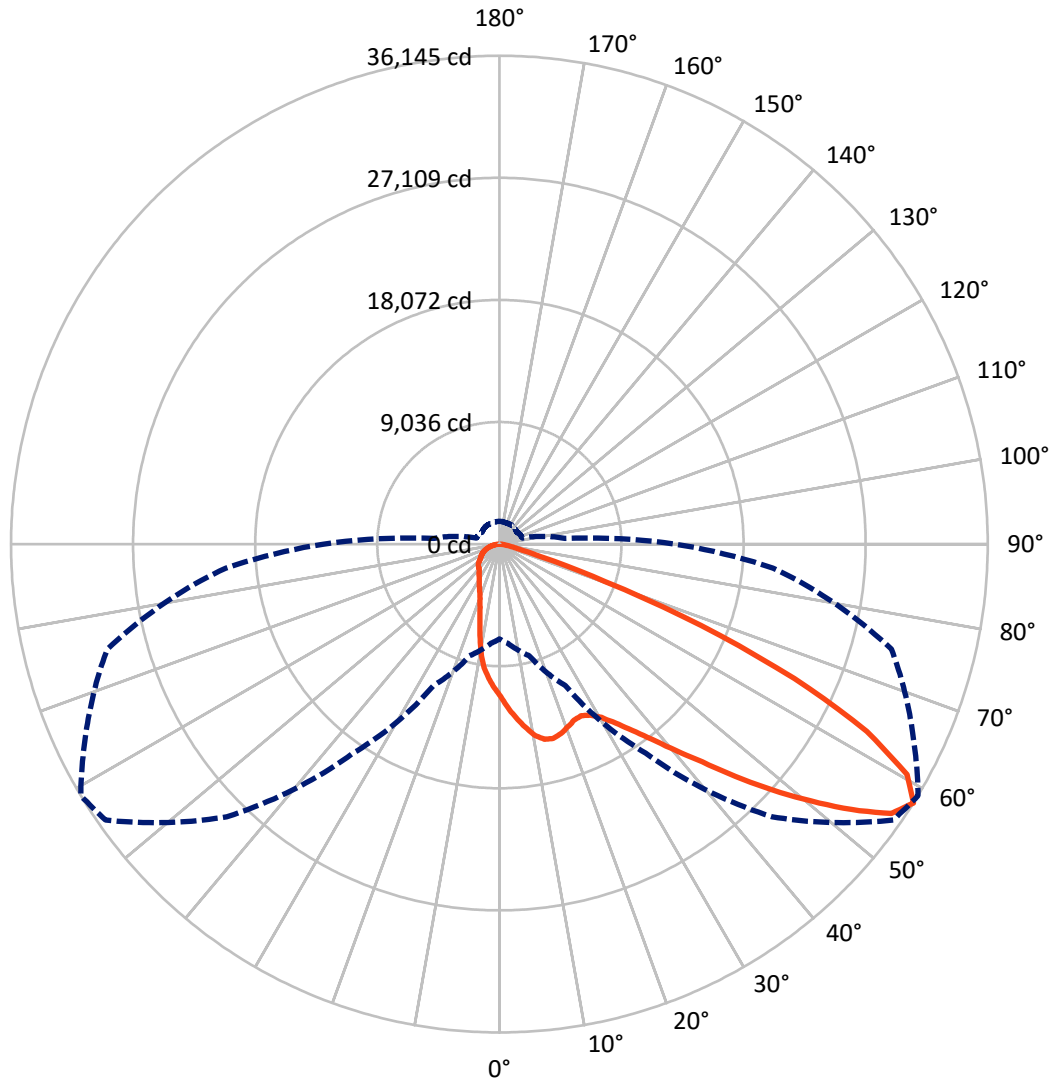
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7137.4	0.0	7137.4
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	38852.6	0.0	38852.6
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	45990.0	0.0	45990.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1048.3	2.3
10°-20°	2656.3	5.8
20°-30°	4305.9	9.4
30°-40°	6926.6	15.1
40°-50°	10756.3	23.4
50°-60°	11586.0	25.2
60°-70°	6724.1	14.6
70°-80°	1755.4	3.8
80°-90°	231.2	0.5
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°	45990.0	100.0
0°-180°	45990.0	100.0

**Coefficient of Utilization**



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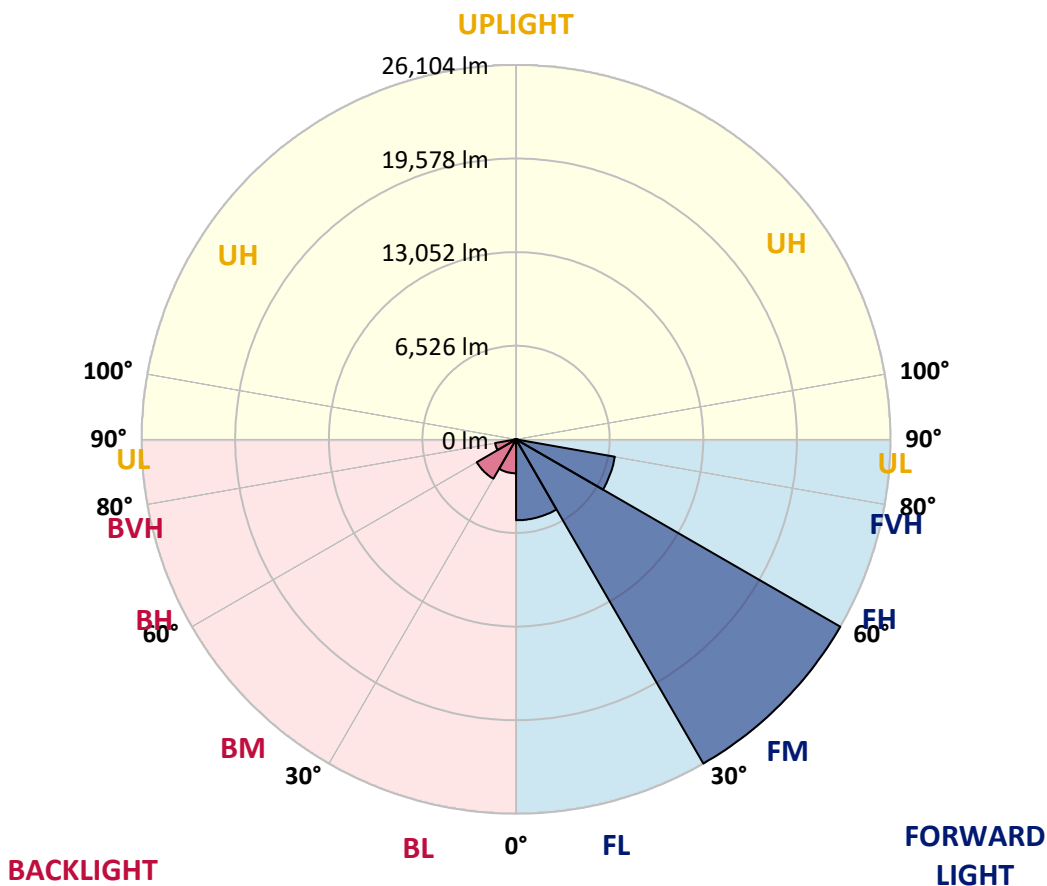
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5642.5	12.3			
FM (30°-60°)	26104.4	56.8			
FH (60°-80°)	6994.9	15.2			G3/7500
FVH (80°-90°)	110.7	0.2			G2/225
BL (0°-30°)	2367.9	5.1	B3/2500		
BM (30°-60°)	3164.4	6.9	B3/5000		
BH (60°-80°)	1484.5	3.2	B3/2500		G3/2500
BVH (80°-90°)	120.5	0.3			G2/225
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°	59°	65°	75°	85°
0°	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6
2.5°	12804.8	12698.0	12772.5	12639.7	12584.7	12439.0	12251.2	12124.9	11930.7	11678.1	11458.0
5°	14077.2	14002.8	14018.9	13876.5	13750.2	13507.4	13122.1	12908.4	12578.2	12069.9	11597.2
7.5°	14038.4	14125.8	14174.4	14297.4	14333.0	14310.3	13963.9	13666.0	13303.4	12539.4	11827.1
10°	12584.7	12749.8	12898.7	13319.6	13831.2	14478.7	14559.6	14381.6	14015.7	13138.3	12102.3
12.5°	11001.5	11127.7	11260.5	11765.6	12549.1	13844.1	14721.5	14831.6	14685.9	13730.8	12413.1
15°	10224.4	10282.7	10409.0	10742.5	11367.3	12804.8	14439.8	14922.2	15184.5	14358.9	12762.7
17.5°	10192.1	10218.0	10279.5	10457.6	10891.4	12001.9	13931.5	14740.9	15576.3	15022.6	13170.7
20°	10862.3	10794.3	10755.4	10752.2	10965.9	11733.2	13439.4	14449.6	15760.8	15702.5	13607.8
22.5°	11791.5	11814.1	11729.9	11522.7	11496.8	11924.2	13193.4	14154.9	15815.8	16304.7	14012.5
25°	13109.2	13222.5	12973.2	12578.2	12383.9	12477.8	13345.5	14064.3	15809.4	16806.6	14265.0
27.5°	14647.1	14734.5	14481.9	13963.9	13562.4	13335.8	13798.8	14333.0	15864.4	17240.4	14417.2
30°	16398.6	16427.7	16081.3	15537.4	14951.4	14465.7	14553.2	14886.6	16146.1	17810.2	14595.2
32.5°	18538.7	18661.7	18137.2	17276.0	16456.9	15835.3	15566.5	15780.2	16754.7	18483.6	14870.4
35°	21255.1	21297.1	20630.2	19396.7	18237.6	17376.4	16813.0	16926.3	17680.7	19425.8	15284.9
37.5°	23816.0	23858.1	23149.1	22003.0	20345.3	19166.8	18350.9	18299.1	18865.7	20756.5	15961.5
40°	25441.3	25561.1	25243.8	24525.1	22941.9	21352.2	20244.9	20066.8	20419.7	22385.0	16903.7
42.5°	26315.5	26367.3	26360.8	26454.7	25512.5	23932.6	22381.8	22025.6	22262.0	24143.0	17855.5
45°	26322.0	26451.5	26797.9	27701.2	27743.3	26759.0	25081.9	24525.1	24308.1	25914.0	18849.5
47.5°	25143.5	25282.7	26234.5	28012.0	29323.2	29546.6	28316.3	27199.4	26286.3	27438.9	19665.4
50°	21575.6	21925.2	23738.3	26882.1	29634.1	31780.6	31401.8	29886.6	28044.4	28617.4	20176.9
52.5°	18477.2	18464.2	19581.2	23689.8	28335.8	32764.8	34386.9	32651.5	29783.0	29365.3	20306.4
55°	13530.1	13604.5	14747.4	18117.8	24871.5	31813.0	36028.4	35196.3	31777.4	29763.6	20254.6
57.5°	7016.0	7385.0	8557.1	11561.6	18898.1	28536.5	35591.3	36144.9	33804.1	30045.2	20322.6
60°	3545.2	3474.0	3894.9	5520.2	10949.7	22287.9	32897.6	34662.1	34170.0	30265.4	20364.7
62.5°	2366.7	2347.3	2230.7	2557.7	4474.4	13199.8	28044.4	30517.9	31628.4	29747.4	19827.3
65°	2049.4	2010.6	1796.9	1783.9	2172.5	5474.8	20555.7	23990.9	26140.6	27445.4	18541.9
67.5°	1845.5	1787.2	1570.3	1463.4	1560.5	2405.6	11584.2	16091.0	19302.8	23210.6	15725.2
70°	1648.0	1618.8	1401.9	1246.5	1236.8	1466.6	4267.2	8304.5	11810.9	15835.3	11496.8
72.5°	1476.4	1424.6	1240.0	1091.1	1016.6	1039.3	1851.9	3198.8	6112.7	9878.0	6876.7
75°	1278.9	1240.0	1078.1	929.2	838.5	760.8	1129.9	1479.6	2787.6	4694.6	3247.3
77.5°	987.5	961.6	851.5	738.2	686.4	566.6	686.4	932.4	1288.6	1978.2	1690.0
80°	573.1	589.2	634.6	576.3	505.1	404.7	446.8	537.4	773.8	1071.7	958.3
82.5°	288.1	307.6	411.2	333.5	301.1	236.3	265.5	317.3	404.7	592.5	375.6
85°	22.7	22.7	74.5	84.2	103.6	84.2	106.8	129.5	184.5	236.3	126.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	16.2	29.1	55.0	35.6
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°	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6	11289.6
2.5°	11309.1	11143.9	10946.4	10784.6	10535.3	10402.5	10234.2	10026.9	9942.8	9903.9	9881.3
5°	11331.7	11040.3	10619.4	10230.9	9800.3	9460.4	9081.6	8686.6	8459.9	8404.9	8366.0
7.5°	11415.9	11008.0	10337.8	9696.7	8897.0	8155.6	7433.6	6718.1	6352.2	6213.0	6200.1
10°	11532.4	10995.0	10052.8	8987.7	7637.6	6465.6	5620.5	5060.4	4824.1	4746.4	4720.5
12.5°	11678.1	10985.3	9677.3	8003.4	6183.9	5076.6	4594.2	4503.5	4535.9	4529.4	4529.4
15°	11862.7	10998.2	9224.0	6889.7	5002.1	4406.4	4416.1	4523.0	4623.3	4639.5	4639.5
17.5°	12063.4	10985.3	8566.8	5772.7	4293.1	4247.8	4396.7	4545.6	4636.3	4649.2	4649.2
20°	12280.3	10923.8	7737.9	4720.5	3982.3	4147.4	4309.3	4425.8	4480.9	4493.8	4493.8
22.5°	12409.8	10748.9	6837.9	3995.2	3784.8	3988.8	4095.6	4215.4	4221.9	4118.3	4115.0
25°	12390.4	10421.9	5811.6	3529.0	3574.3	3752.4	3888.4	3804.2	3700.6	3642.3	3632.6
27.5°	12267.4	9929.8	4765.8	3176.1	3325.0	3525.8	3483.7	3412.5	3386.6	3321.8	3315.3
30°	12112.0	9324.4	3826.9	2900.9	3066.0	3250.6	3185.8	3179.4	3153.5	3082.2	3082.2
32.5°	11963.1	8699.5	3117.8	2696.9	2900.9	2913.9	3004.5	3011.0	2998.0	2875.0	2862.1
35°	11921.0	8074.7	2638.7	2535.1	2739.0	2732.6	2862.1	2858.8	2635.4	2463.8	2460.6
37.5°	12047.2	7440.1	2353.8	2402.3	2515.6	2599.8	2703.4	2515.6	2441.2	2337.6	2331.1
40°	12316.0	6854.1	2208.1	2324.6	2373.2	2496.2	2334.3	2347.3	2327.9	2250.2	2240.4
42.5°	12672.1	6355.5	2127.1	2298.7	2292.2	2324.6	2146.6	2198.4	2227.5	2169.2	2159.5
45°	13015.3	5921.6	2085.0	2201.6	2234.0	2046.2	2010.6	2059.1	2104.5	2081.8	2072.1
47.5°	13267.8	5546.1	2062.4	2068.8	2159.5	1952.3	1894.0	1916.7	1971.7	1981.4	1978.2
50°	13345.5	5225.5	2036.5	1958.8	1939.3	1858.4	1813.1	1806.6	1871.4	1916.7	1923.2
52.5°	13196.6	4940.6	1968.5	1861.6	1767.7	1780.7	1764.5	1732.1	1796.9	1858.4	1864.9
55°	12976.4	4778.7	1861.6	1767.7	1657.7	1709.5	1715.9	1686.8	1728.9	1771.0	1771.0
57.5°	12992.6	4872.6	1758.0	1680.3	1560.5	1628.5	1664.1	1651.2	1651.2	1683.6	1686.8
60°	13099.5	5008.6	1690.0	1570.3	1463.4	1534.6	1615.6	1602.6	1573.5	1615.6	1615.6
62.5°	12791.9	4827.3	1644.7	1463.4	1359.8	1444.0	1541.1	1534.6	1502.3	1570.3	1576.7
65°	11885.3	4341.7	1592.9	1330.7	1256.2	1353.3	1437.5	1460.2	1431.0	1521.7	1537.9
67.5°	9962.2	3652.0	1492.5	1204.4	1152.6	1243.3	1324.2	1356.6	1333.9	1440.7	1453.7
70°	7427.1	2956.0	1333.9	1065.2	1026.3	1107.3	1181.7	1194.7	1197.9	1324.2	1337.1
72.5°	4736.7	2298.7	1123.5	909.8	880.6	942.2	997.2	1049.0	1071.7	1191.4	1188.2
75°	2641.9	1709.5	903.3	770.6	718.8	767.3	832.1	893.6	958.3	1133.2	1152.6
77.5°	1521.7	1201.2	715.5	618.4	556.9	608.7	663.7	751.1	945.4	1097.6	1078.1
80°	858.0	780.3	540.7	453.3	414.4	453.3	495.4	660.5	744.7	809.4	819.1
82.5°	401.5	437.1	369.1	278.4	278.4	304.3	343.2	511.5	563.3	459.7	401.5
85°	145.7	197.5	181.3	142.5	126.3	123.0	213.7	291.4	181.3	161.9	139.2
87.5°	38.9	55.0	51.8	35.6	19.4	16.2	0.0	0.0	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)