

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: P639870

Luminaire Tested: GWS-SA5C-760-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-760-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24497.1 lumens  
Efficiency: N/A  
Efficacy: 155.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
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

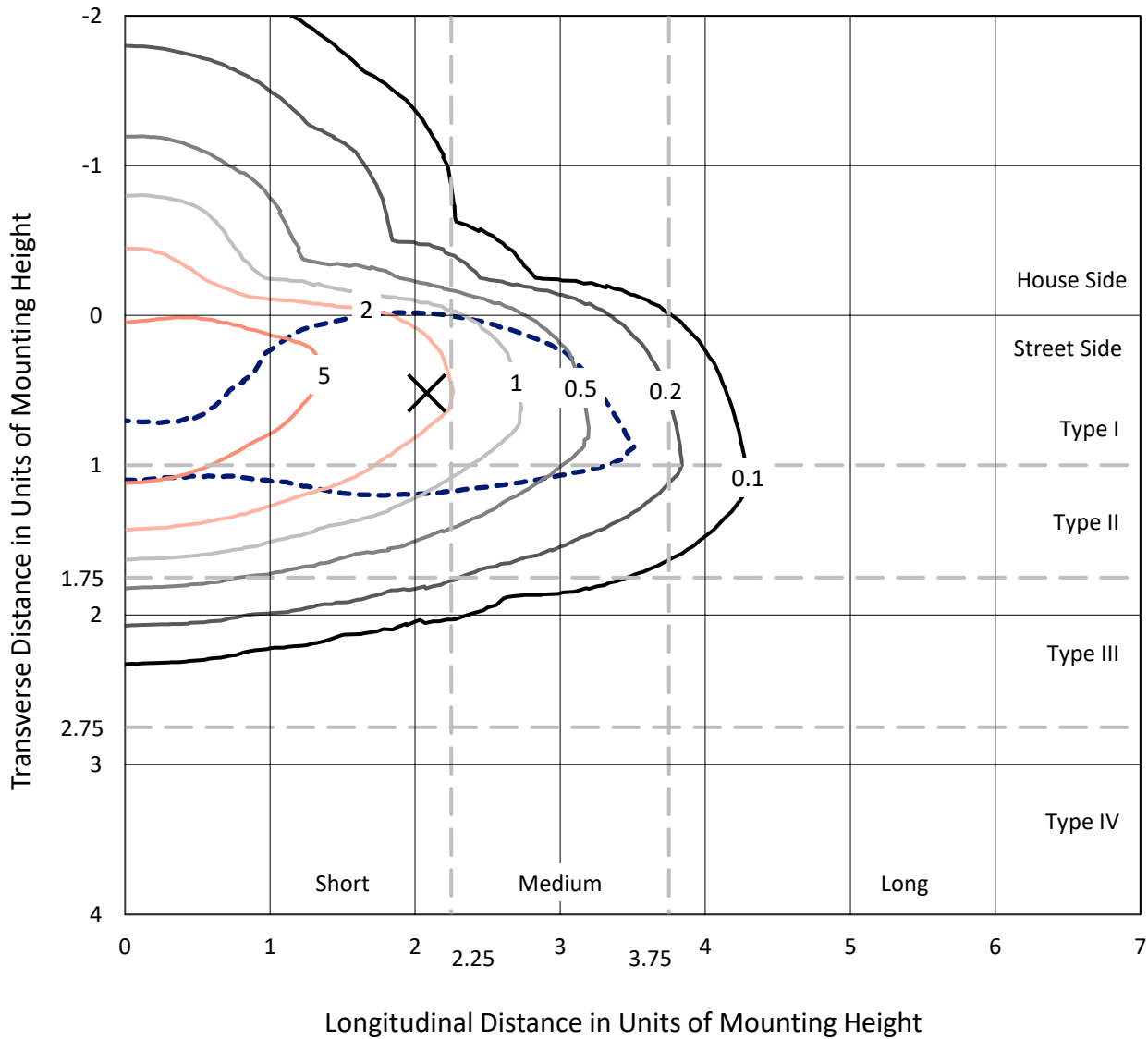


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### Iso-Footcandle Lines of Horizontal Illumination

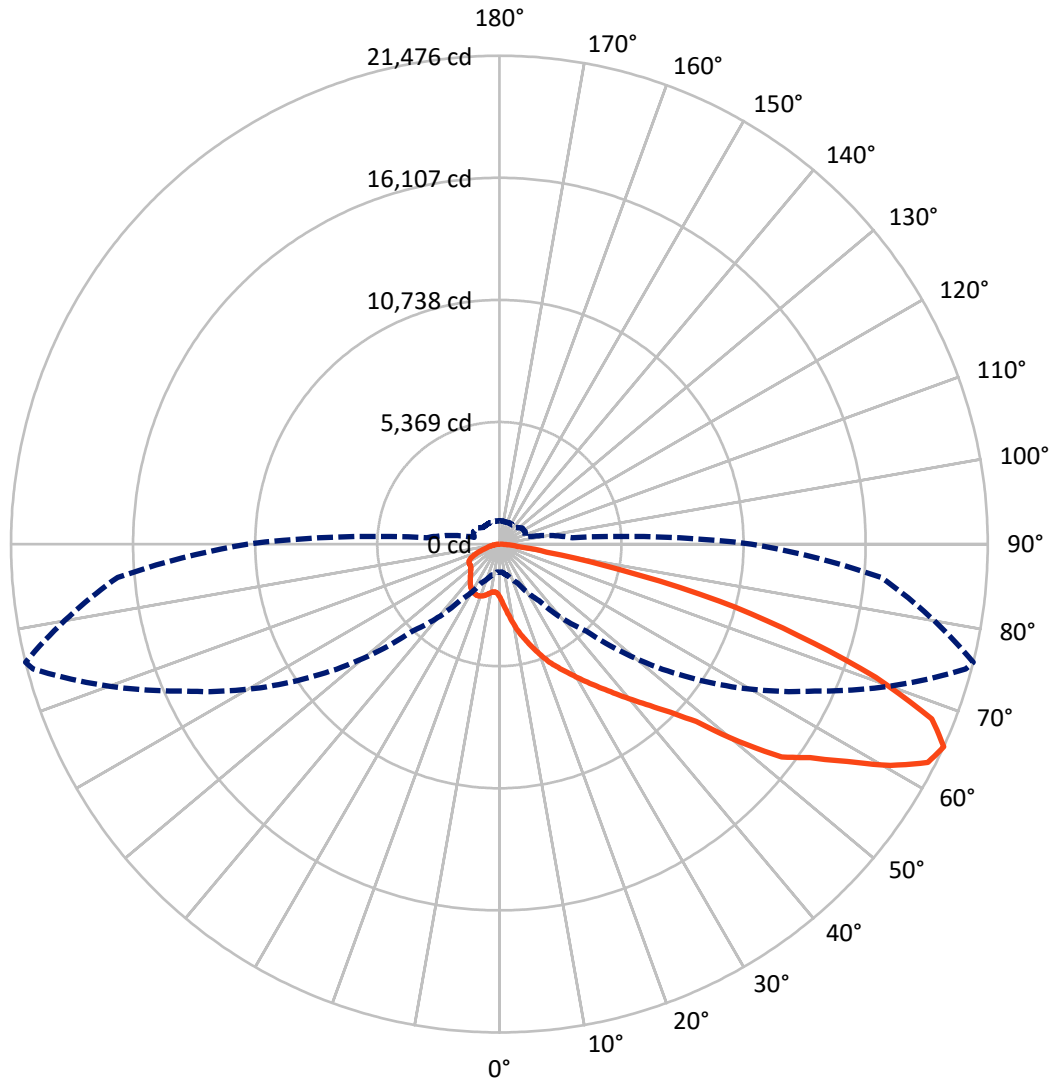
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4094.7	0.0	4094.7
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	20402.4	0.0	20402.4
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	24497.1	0.0	24497.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.6	1.1
10°-20°	1049.7	4.3
20°-30°	2045.8	8.4
30°-40°	3421.5	14.0
40°-50°	4898.9	20.0
50°-60°	5799.6	23.7
60°-70°	4822.4	19.7
70°-80°	1973.5	8.1
80°-90°	210.1	0.9
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°	24497.1	100.0
0°-180°	24497.1	100.0

**Coefficient of Utilization**



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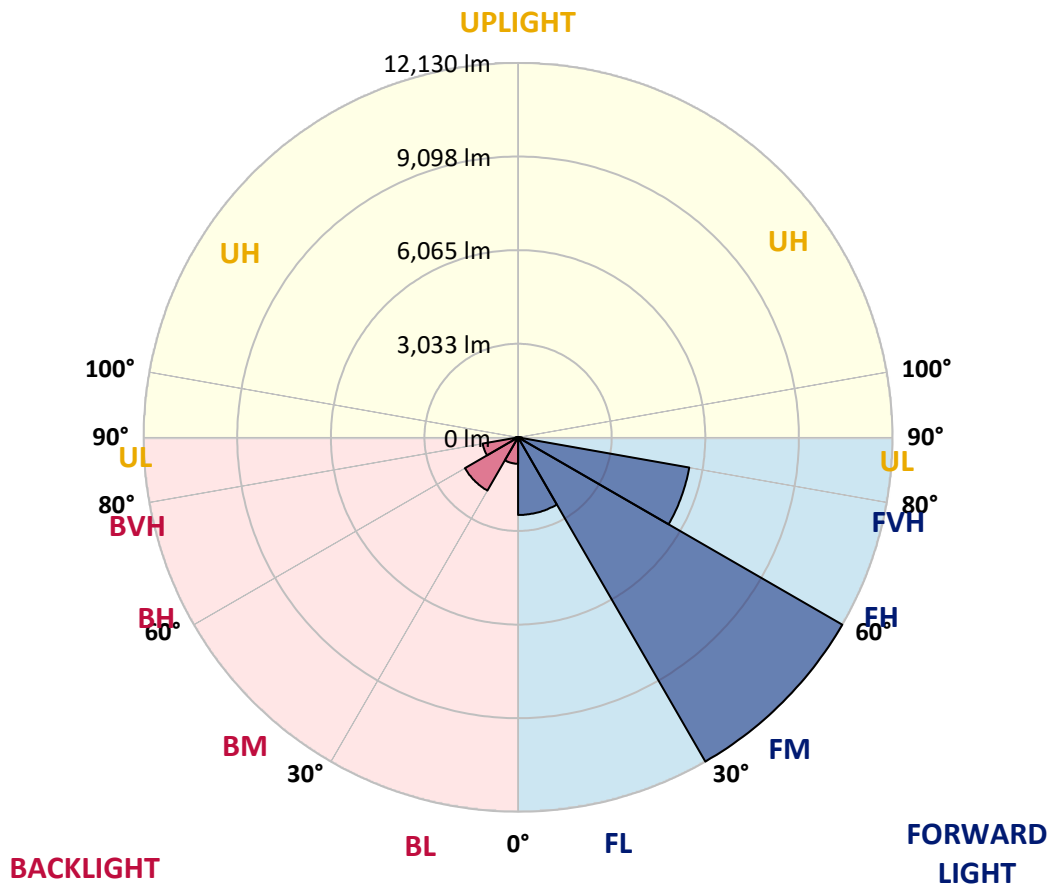
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.5	10.3			
FM (30°-60°)	12130.0	49.5			
FH (60°-80°)	5632.5	23.0			G3/7500
FVH (80°-90°)	125.3	0.5			G2/225
BL (0°-30°)	856.6	3.5	B2/1000		
BM (30°-60°)	1989.9	8.1	B2/2500		
BH (60°-80°)	1163.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	84.8	0.3			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°	75°	76°	85°
0°	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8
2.5°	3251.5	3263.5	3223.9	3210.2	3117.2	2991.4	2886.4	2727.9	2581.6	2559.2	2428.3
5°	4129.8	4078.1	4033.4	4004.1	3874.9	3732.0	3509.8	3211.9	2900.2	2862.3	2579.8
7.5°	4651.6	4643.0	4587.9	4570.7	4470.8	4327.9	4098.8	3728.5	3275.6	3213.6	2784.8
10°	5070.1	5064.9	5037.4	5052.9	4961.6	4822.1	4600.0	4217.6	3687.2	3625.2	3013.8
12.5°	5435.2	5443.8	5438.7	5495.5	5449.0	5340.5	5109.7	4689.5	4098.8	4031.6	3292.8
15°	5702.2	5709.0	5734.9	5858.9	5884.7	5862.3	5628.1	5152.8	4505.2	4408.8	3580.4
17.5°	5777.9	5791.7	5853.7	6053.5	6193.0	6286.0	6112.0	5624.7	4904.8	4799.7	3873.2
20°	5879.5	5895.0	5957.0	6165.4	6370.4	6582.2	6551.2	6103.4	5307.8	5221.7	4169.4
22.5°	6349.7	6337.6	6310.1	6410.0	6556.4	6819.9	6897.4	6563.3	5724.5	5641.9	4496.6
25°	7255.6	7233.2	7057.5	6966.2	6918.0	7078.2	7216.0	6981.7	6131.0	6007.0	4801.5
27.5°	8254.4	8242.4	8018.5	7801.5	7505.3	7436.4	7517.3	7346.8	6525.4	6399.6	5066.7
30°	9199.9	9163.8	8929.5	8657.4	8261.3	7965.1	7846.3	7705.1	6957.6	6826.7	5376.7
32.5°	10045.5	9999.0	9723.5	9422.1	9007.0	8657.4	8302.7	8085.7	7446.7	7295.2	5693.5
35°	10739.6	10693.1	10410.6	10090.3	9633.9	9375.6	8889.9	8499.0	7944.4	7791.2	6067.3
37.5°	11276.9	11233.8	10939.3	10624.2	10226.3	10021.4	9599.5	8964.0	8517.9	8357.8	6463.4
40°	11578.3	11547.3	11311.3	11061.6	10727.5	10550.1	10360.7	9551.2	9160.3	9000.1	6930.1
42.5°	11669.5	11648.9	11483.5	11354.4	11128.8	10994.4	11102.9	10241.8	9845.7	9706.2	7455.3
45°	11440.5	11440.5	11392.3	11457.7	11468.0	11466.3	11846.9	11022.0	10687.9	10534.6	8195.9
47.5°	10854.9	10892.8	10963.4	11285.5	11624.8	11908.9	12716.6	12062.2	11771.1	11645.4	9244.7
50°	9783.7	9887.1	10128.2	10756.8	11478.4	12201.7	13539.8	13600.1	13877.4	13655.2	10787.8
52.5°	8214.8	8199.3	8814.1	9709.7	10810.2	12213.7	13992.8	14957.2	15702.9	15549.6	11934.8
55°	6528.8	6503.0	7076.5	8311.3	9785.5	11752.2	14264.9	15578.9	16715.5	16577.8	12966.3
57.5°	4999.5	4966.8	5476.6	6590.8	8338.8	10772.3	14213.2	16319.4	18108.8	18038.2	14368.2
60°	3440.9	3401.3	3878.4	4853.1	6627.0	9274.0	13641.4	16700.0	19739.7	19763.8	15868.2
62.5°	2066.6	2044.2	2390.4	3146.4	4767.0	7417.5	12303.3	16469.3	21038.2	21146.7	16832.6
65°	1246.9	1231.4	1434.6	1877.2	3024.2	5412.8	10240.1	15289.6	21225.9	21475.7	16855.0
67.5°	907.6	909.3	967.9	1143.5	1763.5	3496.0	7684.4	13174.7	20247.7	20506.1	15792.4
70°	788.8	792.2	823.2	862.8	1066.0	2001.2	4996.1	10400.3	17356.2	17556.0	13245.3
72.5°	700.9	700.9	721.6	742.3	833.5	1219.3	2676.3	7269.3	13698.3	13751.7	10109.2
75°	616.5	611.4	621.7	632.0	723.3	852.5	1302.0	5064.9	10117.8	9993.8	6534.0
77.5°	490.8	485.7	487.4	497.7	580.4	609.7	659.6	3163.7	5702.2	5381.8	2886.4
80°	349.6	346.2	365.1	390.9	428.8	373.7	413.3	1531.0	2261.2	2104.5	1119.4
82.5°	208.4	215.3	244.6	265.2	296.2	234.2	266.9	511.5	800.8	780.2	454.7
85°	29.3	31.0	87.8	101.6	127.4	91.3	141.2	230.8	320.3	342.7	160.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	41.3	91.3	93.0	39.6
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°	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8	2319.8
2.5°	2361.1	2280.2	2164.8	2068.3	1987.4	1922.0	1866.8	1825.5	1813.5	1796.2	1796.2
5°	2447.2	2300.8	2094.2	1947.8	1863.4	1813.5	1779.0	1761.8	1753.2	1742.9	1737.7
7.5°	2566.1	2361.1	2082.1	1934.0	1868.6	1837.6	1815.2	1804.9	1798.0	1787.6	1787.6
10°	2729.7	2450.7	2120.0	1982.2	1930.6	1899.6	1873.7	1856.5	1841.0	1825.5	1822.1
12.5°	2907.1	2567.8	2188.9	2047.7	1992.6	1954.7	1918.5	1892.7	1873.7	1854.8	1849.6
15°	3103.4	2688.3	2263.0	2111.4	2042.5	1990.8	1947.8	1908.2	1882.3	1854.8	1851.4
17.5°	3296.3	2810.6	2325.0	2154.5	2066.6	2002.9	1940.9	1889.2	1856.5	1825.5	1816.9
20°	3527.0	2932.9	2368.0	2166.5	2061.5	1977.1	1903.0	1837.6	1801.4	1765.2	1760.1
22.5°	3738.9	3046.5	2388.7	2149.3	2021.8	1922.0	1835.9	1765.2	1725.6	1689.5	1682.6
25°	3943.8	3146.4	2380.1	2108.0	1961.6	1846.2	1756.6	1686.0	1648.1	1610.2	1599.9
27.5°	4141.9	3213.6	2345.6	2044.2	1885.8	1761.8	1675.7	1612.0	1579.2	1546.5	1532.7
30°	4336.5	3275.6	2292.2	1961.6	1789.4	1674.0	1603.4	1558.6	1525.9	1491.4	1481.1
32.5°	4532.8	3320.4	2211.3	1865.1	1691.2	1596.5	1553.4	1520.7	1486.2	1451.8	1441.5
35°	4730.8	3339.3	2113.1	1754.9	1608.5	1546.5	1531.0	1493.1	1446.6	1405.3	1391.5
37.5°	4966.8	3356.5	1990.8	1646.4	1536.2	1522.4	1519.0	1462.1	1407.0	1350.2	1334.7
40°	5250.9	3378.9	1865.1	1548.2	1477.6	1513.8	1500.0	1422.5	1312.3	1257.2	1240.0
42.5°	5598.8	3420.3	1734.2	1458.7	1434.6	1481.1	1465.6	1326.1	1252.0	1221.0	1212.4
45°	6110.3	3571.8	1603.4	1388.1	1401.9	1434.6	1410.5	1269.3	1240.0	1219.3	1209.0
47.5°	7021.4	3804.3	1489.7	1334.7	1376.0	1393.2	1300.3	1253.8	1231.4	1203.8	1191.8
50°	7968.6	3905.9	1398.4	1302.0	1346.7	1355.4	1240.0	1233.1	1217.6	1188.3	1176.3
52.5°	8609.2	3892.1	1343.3	1289.9	1322.6	1289.9	1212.4	1210.7	1200.4	1165.9	1152.1
55°	9332.5	3916.3	1319.2	1293.4	1312.3	1179.7	1178.0	1183.1	1178.0	1140.1	1133.2
57.5°	10309.0	3990.3	1307.1	1305.4	1305.4	1126.3	1145.3	1152.1	1141.8	1124.6	1119.4
60°	11247.6	3995.5	1284.8	1319.2	1300.3	1093.6	1107.4	1114.3	1102.2	1098.8	1097.0
62.5°	11600.6	3747.5	1234.8	1308.9	1279.6	1057.4	1067.8	1071.2	1059.1	1067.8	1066.0
65°	11075.4	3220.5	1152.1	1258.9	1215.9	1024.7	1017.8	1026.4	1005.8	1028.1	1029.9
67.5°	9833.7	2559.2	1026.4	1164.2	1126.3	988.5	974.8	974.8	940.3	974.8	973.0
70°	7928.9	1808.3	842.1	1012.6	1028.1	945.5	938.6	899.0	843.9	895.5	890.4
72.5°	6010.4	1298.5	663.0	800.8	885.2	885.2	886.9	819.8	756.0	780.2	759.5
75°	3807.8	914.5	530.4	613.1	694.0	776.7	816.3	692.3	635.5	625.2	614.8
77.5°	1715.3	601.0	413.3	470.2	492.5	613.1	745.7	595.9	518.4	496.0	489.1
80°	718.2	373.7	294.5	332.4	303.1	514.9	657.9	463.3	380.6	349.6	327.2
82.5°	315.2	222.2	187.7	179.1	189.4	382.3	490.8	308.3	237.7	322.0	325.5
85°	132.6	117.1	96.4	87.8	77.5	146.4	230.8	120.6	148.1	84.4	68.9
87.5°	31.0	34.4	25.8	17.2	10.3	1.7	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)