

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: P639845

Luminaire Tested: GWS-SA5C-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-760-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

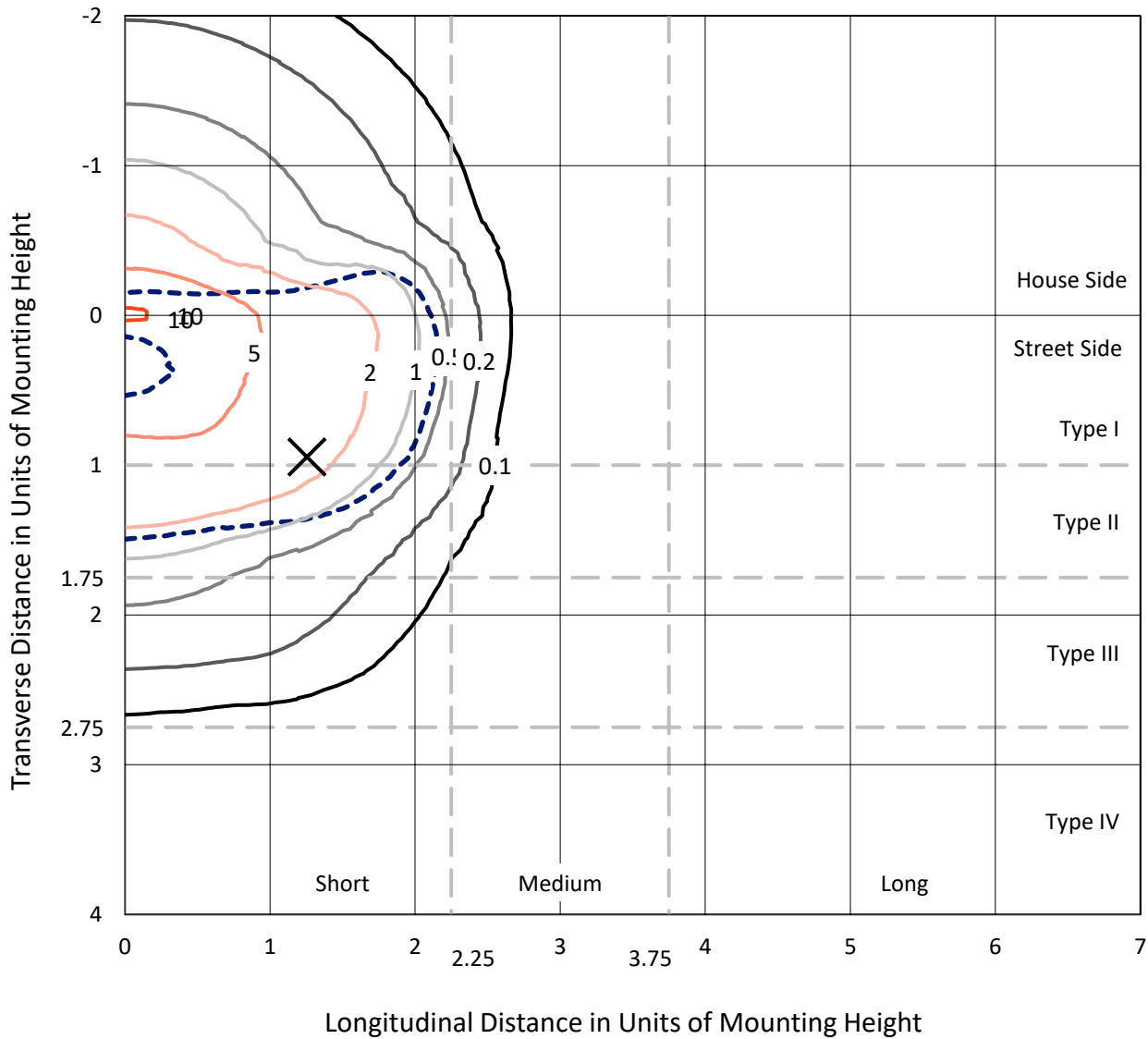
Lumens per Lamp: N/A  
Luminaire Lumens: 20461.9 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

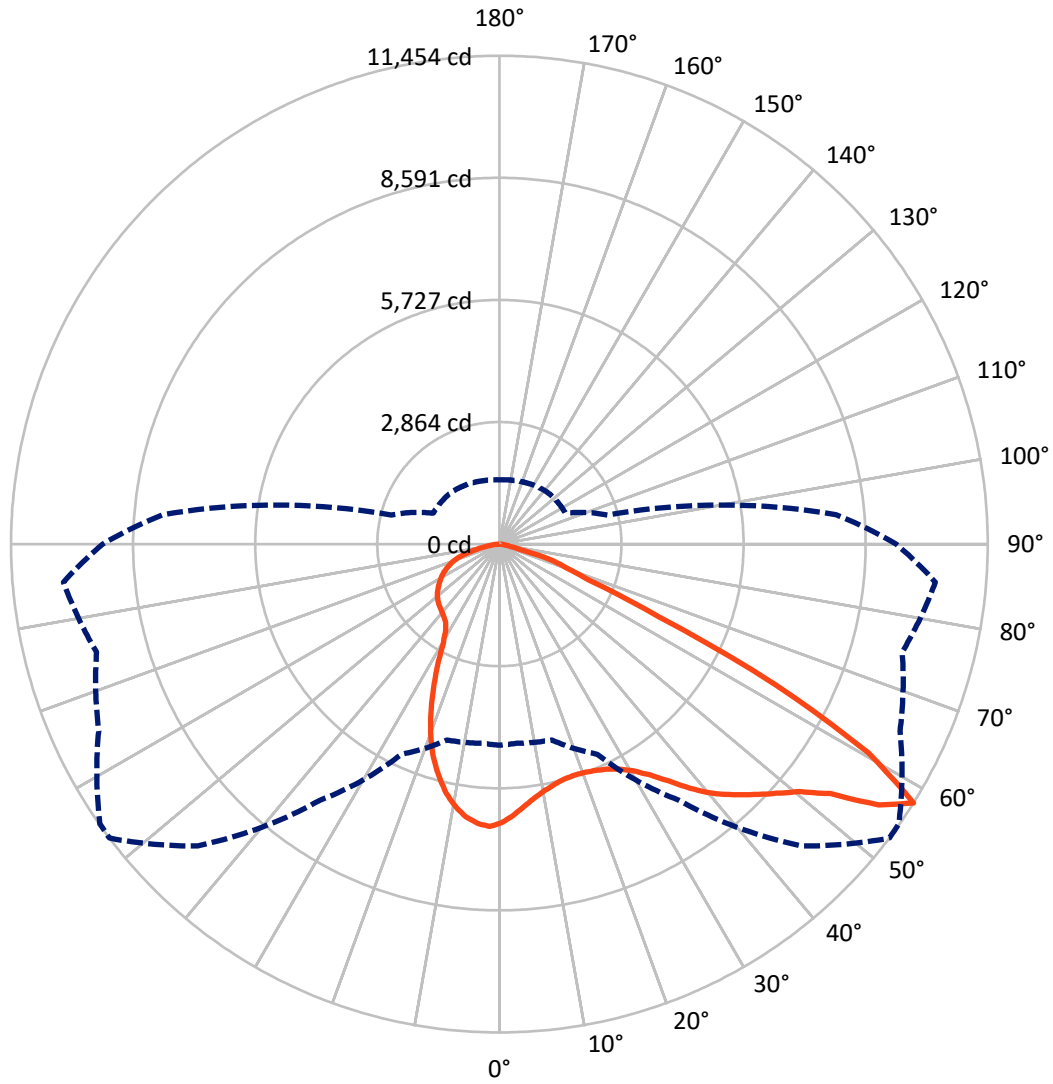
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6397.7	0.0	6397.7
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	14064.2	0.0	14064.2
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	20461.9	0.0	20461.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.9	2.9
10°-20°	1550.2	7.6
20°-30°	2284.0	11.2
30°-40°	3196.9	15.6
40°-50°	4202.6	20.5
50°-60°	4927.6	24.1
60°-70°	2902.9	14.2
70°-80°	722.1	3.5
80°-90°	84.7	0.4
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°	20461.9	100.0
0°-180°	20461.9	100.0

**Coefficient of Utilization**



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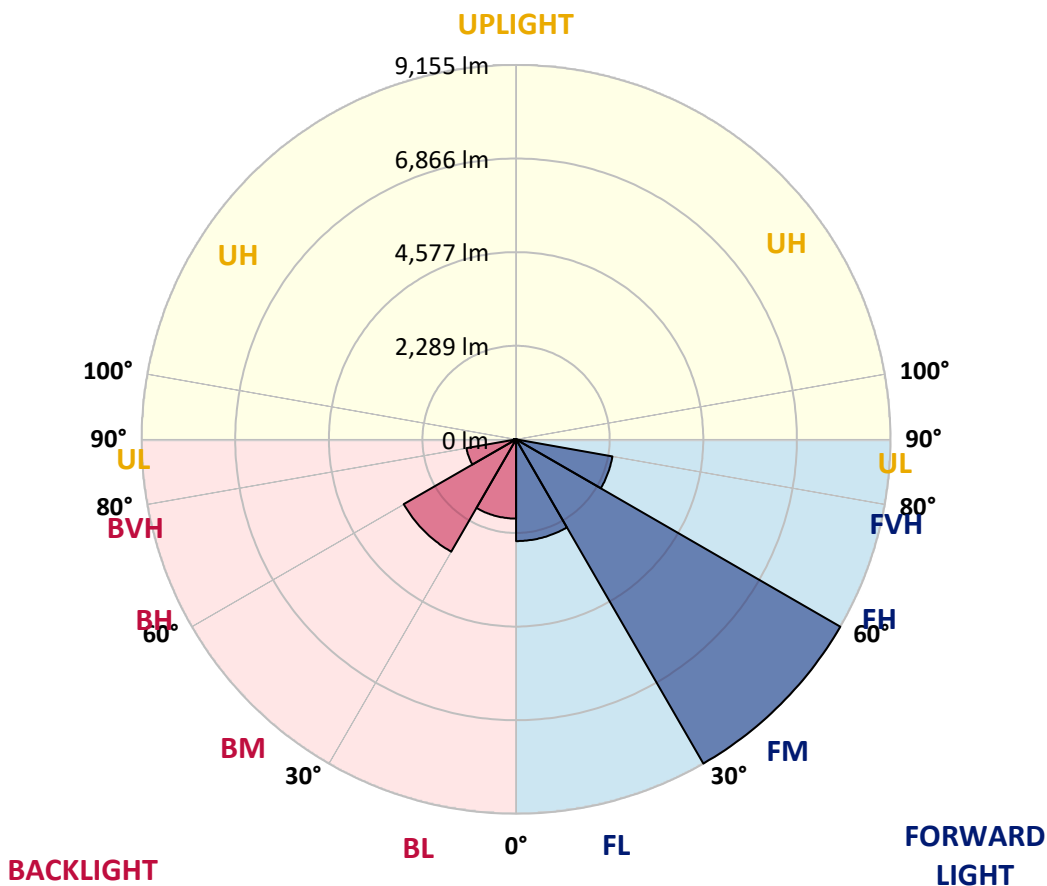
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2487.8	12.2			
FM (30°-60°)	9154.8	44.7			
FH (60°-80°)	2393.3	11.7			G2/5000
FVH (80°-90°)	28.4	0.1			G1/100
BL (0°-30°)	1937.2	9.5	B3/2500		
BM (30°-60°)	3172.3	15.5	B3/5000		
BH (60°-80°)	1231.8	6.0	B3/2500		G3/2500
BVH (80°-90°)	56.4	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°	53°	55°	65°	75°	85°
0°	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0
2.5°	6158.6	6175.8	6179.3	6232.7	6236.1	6313.6	6365.3	6354.9	6408.3	6473.8	6525.4
5°	5864.1	5865.8	5883.0	5946.8	5981.2	6082.8	6168.9	6168.9	6272.3	6406.6	6522.0
7.5°	5621.3	5619.5	5635.0	5705.7	5762.5	5884.8	6001.9	6015.7	6160.3	6356.7	6544.4
10°	5395.7	5407.7	5424.9	5511.0	5583.4	5734.9	5874.4	5896.8	6079.4	6322.2	6575.4
12.5°	5251.0	5252.7	5278.6	5375.0	5468.0	5629.9	5776.3	5803.8	6013.9	6289.5	6597.8
15°	5158.0	5159.7	5187.3	5294.1	5402.6	5566.2	5716.0	5747.0	5976.0	6284.3	6640.8
17.5°	5116.7	5114.9	5140.8	5247.6	5366.4	5536.9	5697.0	5734.9	5993.3	6323.9	6716.6
20°	5116.7	5118.4	5132.2	5228.6	5349.2	5530.0	5716.0	5762.5	6060.4	6413.5	6833.7
22.5°	5189.0	5195.9	5202.8	5268.2	5362.9	5540.3	5765.9	5827.9	6205.1	6563.3	6987.0
25°	5330.2	5331.9	5338.8	5392.2	5435.3	5569.6	5848.6	5941.6	6430.7	6782.0	7179.9
27.5°	5519.7	5543.8	5550.7	5585.1	5585.1	5641.9	5977.8	6112.1	6735.5	7097.2	7426.1
30°	5784.9	5793.5	5805.5	5843.4	5802.1	5778.0	6167.2	6339.4	7088.6	7477.8	7722.4
32.5°	6017.4	6036.3	6101.8	6163.8	6089.7	6013.9	6446.2	6649.4	7427.9	7873.9	8037.5
35°	6215.4	6261.9	6387.7	6525.4	6473.8	6398.0	6816.5	7028.3	7706.9	8158.1	8316.5
37.5°	6454.8	6491.0	6663.2	6887.1	6933.6	6897.4	7267.7	7419.2	7892.9	8230.4	8468.1
40°	6697.6	6752.8	6974.9	7284.9	7462.3	7488.1	7684.5	7786.1	7956.6	8089.2	8438.8
42.5°	6945.6	7040.4	7345.2	7706.9	8022.0	8080.6	8035.8	8078.9	7935.9	7894.6	8302.7
45°	7248.8	7360.7	7705.1	8166.7	8581.7	8673.0	8380.2	8340.6	7932.5	7820.5	8218.4
47.5°	7607.0	7718.9	8047.9	8585.2	9115.6	9182.8	8733.3	8661.0	8053.0	7934.2	8332.0
50°	7923.9	8001.4	8295.9	8896.9	9613.3	9652.9	9122.5	9034.7	8352.7	8249.4	8686.8
52.5°	7601.8	7593.2	7903.2	8643.7	9871.7	10348.7	9721.8	9637.4	8931.3	8772.9	9236.2
55°	6449.6	6351.5	6628.8	7357.3	9150.1	10967.0	10796.5	10627.7	9702.9	9299.9	9751.1
57.5°	4715.4	4687.8	4755.0	5438.7	7329.7	10009.4	11454.4	11438.9	10369.4	9782.1	10264.3
60°	3687.2	3645.9	3466.8	3485.7	4996.1	7818.8	9940.6	10396.9	10782.7	10071.4	10622.5
62.5°	3273.9	3242.9	3149.9	2893.3	2976.0	5242.4	7286.6	7705.1	9422.2	8895.2	9124.2
65°	2710.7	2702.1	2779.6	2769.3	2493.7	2895.0	4112.6	4534.6	5924.4	5998.4	5924.4
67.5°	1970.2	1954.7	2151.0	2538.5	2400.8	2185.5	2292.3	2438.6	3038.0	2728.0	2455.9
70°	1281.3	1258.9	1372.6	1834.1	2149.3	1904.8	1651.6	1627.5	1670.5	1038.5	1122.9
72.5°	859.4	833.5	831.8	1009.2	1298.5	1283.0	1279.6	1267.5	1131.5	819.8	909.3
75°	478.8	458.1	452.9	435.7	465.0	473.6	504.6	521.8	564.9	621.7	688.9
77.5°	80.9	79.2	99.9	127.4	175.7	225.6	279.0	294.5	363.4	430.6	473.6
80°	44.8	46.5	60.3	74.1	98.2	134.3	172.2	182.6	223.9	260.1	294.5
82.5°	24.1	24.1	31.0	39.6	53.4	70.6	93.0	101.6	129.2	151.6	175.7
85°	8.6	8.6	12.1	15.5	22.4	29.3	36.2	41.3	56.8	77.5	87.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.9	6.9	8.6	15.5	22.4
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°	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0	6534.0
2.5°	6568.5	6522.0	6585.7	6615.0	6625.3	6632.2	6587.4	6556.4	6546.1	6513.4	6494.4
5°	6592.6	6561.6	6621.9	6621.9	6578.8	6534.0	6442.8	6379.0	6334.3	6280.9	6272.3
7.5°	6633.9	6611.5	6644.3	6577.1	6468.6	6348.0	6189.6	6065.6	5965.7	5900.3	5902.0
10°	6689.0	6661.5	6635.6	6485.8	6287.8	6065.6	5822.8	5641.9	5476.6	5400.8	5359.5
12.5°	6725.2	6685.6	6577.1	6329.1	6038.0	5740.1	5397.4	5128.7	4889.3	4780.8	4772.2
15°	6770.0	6697.6	6480.6	6125.9	5721.2	5314.7	4873.8	4500.1	4176.3	4007.6	3999.0
17.5°	6828.5	6709.7	6365.3	5893.4	5387.1	4787.7	4233.2	3763.0	3418.6	3287.7	3310.1
20°	6911.2	6723.5	6234.4	5635.0	4972.0	4188.4	3497.8	3065.5	2932.9	2924.3	2907.1
22.5°	7004.2	6732.1	6089.7	5345.7	4469.1	3549.5	2889.9	2705.6	2703.9	2746.9	2757.2
25°	7109.3	6739.0	5926.1	5008.2	3924.9	2912.2	2555.7	2500.6	2543.7	2624.6	2635.0
27.5°	7243.6	6752.8	5728.0	4637.9	3346.2	2516.1	2371.5	2357.7	2409.4	2485.1	2481.7
30°	7441.6	6802.7	5517.9	4212.5	2752.1	2328.4	2259.5	2261.3	2281.9	2318.1	2323.3
32.5°	7643.1	6880.2	5313.0	3733.7	2411.1	2221.6	2190.6	2187.2	2187.2	2202.7	2206.1
35°	7834.3	6968.0	5090.8	3234.3	2245.8	2159.6	2139.0	2128.6	2123.5	2120.0	2114.9
37.5°	7941.1	7011.1	4873.8	2741.7	2157.9	2118.3	2097.6	2083.9	2064.9	2051.1	2047.7
40°	7894.6	6961.1	4622.4	2373.2	2104.5	2078.7	2054.6	2035.6	2009.8	1997.8	1990.9
42.5°	7739.6	6806.1	4348.6	2199.3	2061.5	2035.6	2006.4	1975.4	1958.1	1947.8	1946.1
45°	7576.0	6618.4	4017.9	2097.6	2020.1	1989.1	1954.7	1920.3	1901.3	1896.1	1894.4
47.5°	7570.8	6525.4	3666.6	2016.7	1970.2	1939.2	1896.1	1861.7	1841.0	1834.1	1827.3
50°	7798.1	6620.1	3270.5	1946.1	1918.5	1885.8	1837.6	1799.7	1773.9	1765.3	1763.5
52.5°	8270.0	6976.6	2915.7	1875.5	1849.6	1811.8	1772.1	1734.3	1703.3	1687.8	1686.0
55°	8779.8	7429.6	2695.2	1803.1	1768.7	1736.0	1699.8	1658.5	1624.0	1599.9	1596.5
57.5°	9306.8	7923.9	2628.1	1711.9	1686.0	1663.6	1620.6	1575.8	1536.2	1513.8	1508.6
60°	9740.8	8349.2	2753.8	1615.4	1601.6	1572.4	1532.8	1489.7	1462.2	1444.9	1441.5
62.5°	8154.6	6797.5	2223.4	1510.4	1510.4	1479.4	1434.6	1403.6	1384.7	1372.6	1369.2
65°	5175.2	4209.1	1517.3	1405.3	1403.6	1362.3	1324.4	1303.7	1295.1	1276.2	1272.7
67.5°	2254.4	1923.7	1296.8	1298.5	1291.7	1246.9	1209.0	1193.5	1176.3	1155.6	1153.9
70°	1169.4	1191.8	1160.8	1179.7	1167.7	1114.3	1078.1	1054.0	1017.8	997.2	998.9
72.5°	943.8	967.9	1002.3	1031.6	1005.8	962.7	905.9	876.6	830.1	807.7	809.4
75°	719.9	745.7	778.4	809.4	788.8	735.4	699.2	669.9	616.5	590.7	595.9
77.5°	496.0	509.8	549.4	547.7	540.8	525.3	471.9	437.4	382.3	351.3	354.8
80°	308.3	316.9	335.8	344.4	341.0	320.3	277.3	251.4	218.7	199.8	201.5
82.5°	186.0	191.2	208.4	210.1	208.4	192.9	160.2	141.2	120.6	110.2	110.2
85°	94.7	98.2	108.5	108.5	98.2	82.7	74.1	65.4	53.4	48.2	48.2
87.5°	25.8	25.8	32.7	27.6	22.4	20.7	10.3	8.6	3.4	1.7	1.7
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)