

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: P637700

Luminaire Tested: GWS-SA4D-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637700  
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-SA4D-735-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

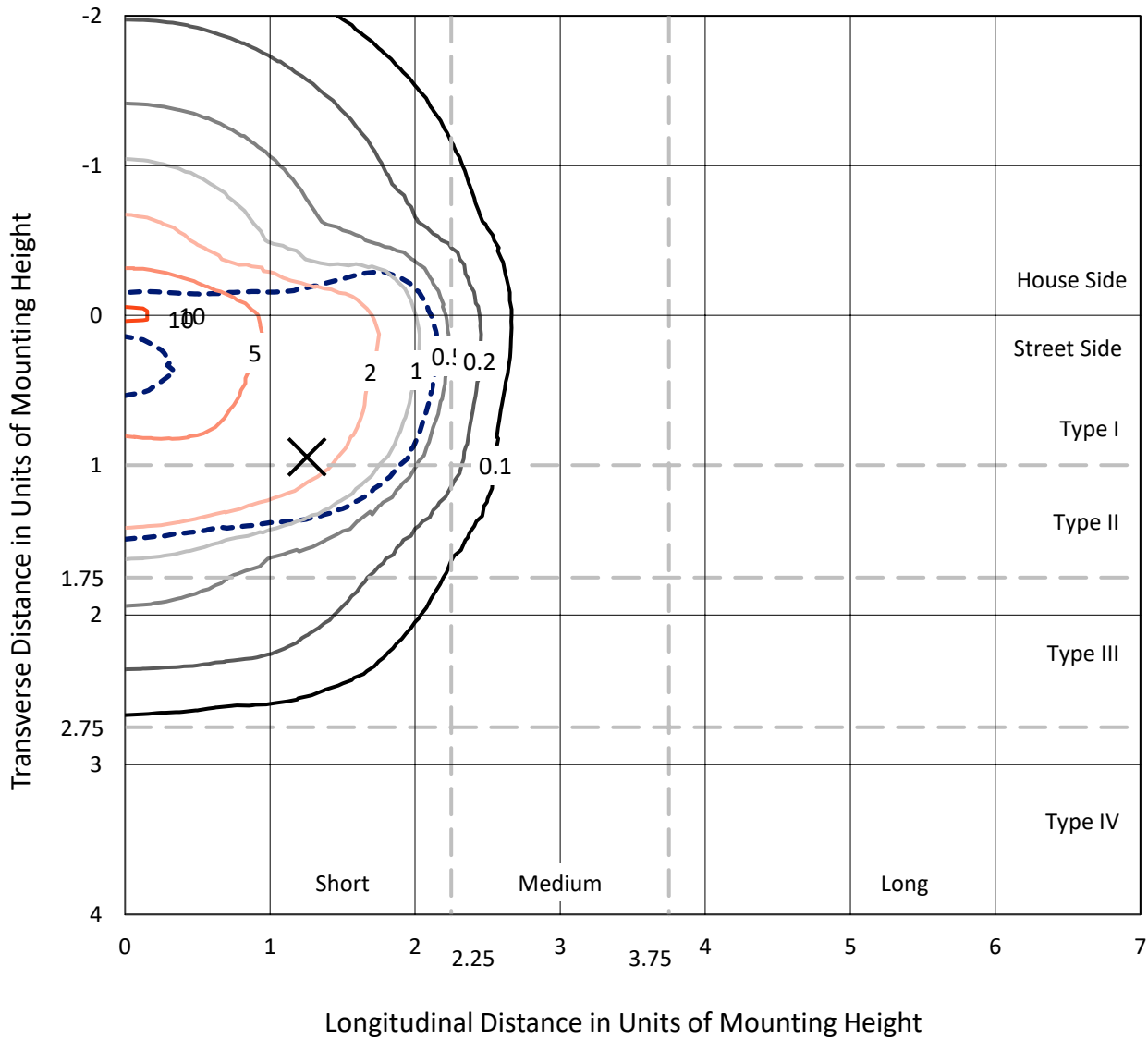
Lumens per Lamp: N/A  
Luminaire Lumens: 20571.8 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

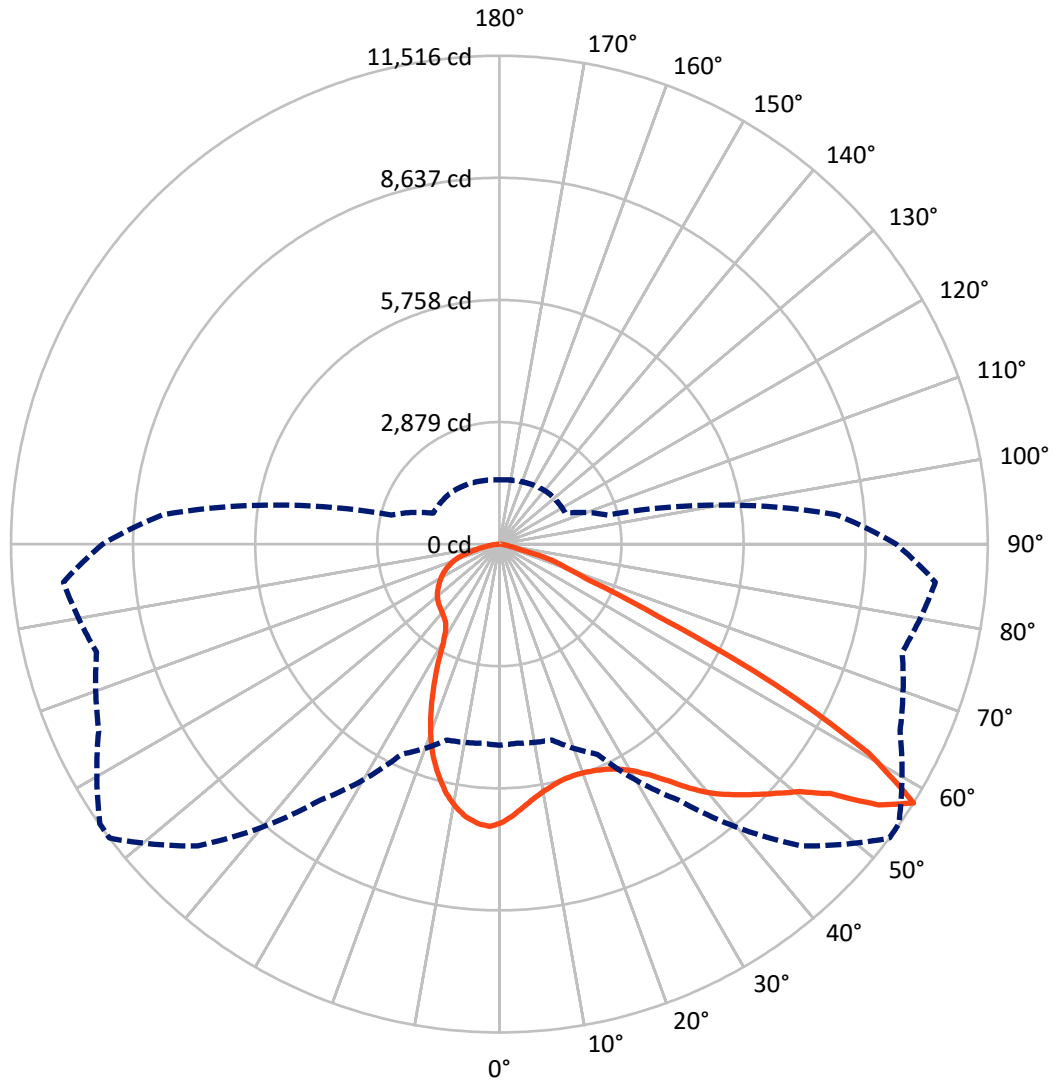
✕ Max cd  
 - - - 1/2 Max cd



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	6432.0	0.0	6432.0
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	14139.8	0.0	14139.8
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	20571.8	0.0	20571.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.0	2.9
10°-20°	1558.5	7.6
20°-30°	2296.2	11.2
30°-40°	3214.1	15.6
40°-50°	4225.2	20.5
50°-60°	4954.0	24.1
60°-70°	2918.5	14.2
70°-80°	726.0	3.5
80°-90°	85.2	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°	20571.8	100.0
0°-180°	20571.8	100.0

**Coefficient of Utilization**



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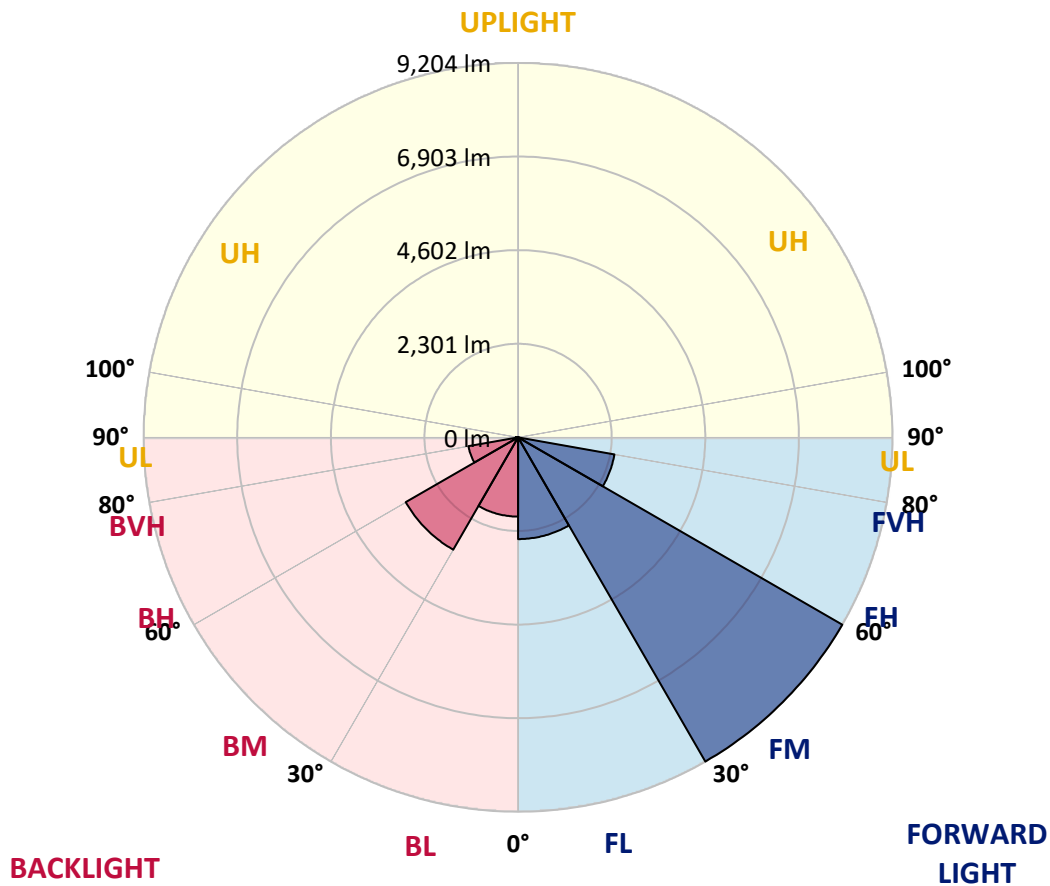
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.1	12.2			
FM (30°-60°)	9204.0	44.7			
FH (60°-80°)	2406.1	11.7			G2/5000
FVH (80°-90°)	28.5	0.1			G1/100
BL (0°-30°)	1947.7	9.5	B3/2500		
BM (30°-60°)	3189.3	15.5	B3/5000		
BH (60°-80°)	1238.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	56.7	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°	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1
2.5°	6191.7	6209.0	6212.5	6266.1	6269.6	6347.5	6399.4	6389.1	6442.7	6508.5	6560.5
5°	5895.6	5897.3	5914.6	5978.7	6013.3	6115.5	6202.1	6202.1	6306.0	6441.0	6557.0
7.5°	5651.5	5649.7	5665.3	5736.3	5793.4	5916.4	6034.1	6048.0	6193.4	6390.8	6579.5
10°	5424.6	5436.8	5454.1	5540.6	5613.4	5765.7	5906.0	5928.5	6112.0	6356.2	6610.7
12.5°	5279.2	5280.9	5306.9	5403.9	5497.4	5660.1	5807.3	5835.0	6046.2	6323.3	6633.2
15°	5185.7	5187.4	5215.1	5322.5	5431.6	5596.1	5746.7	5777.9	6008.1	6318.1	6676.5
17.5°	5144.1	5142.4	5168.4	5275.7	5395.2	5566.6	5727.6	5765.7	6025.5	6357.9	6752.7
20°	5144.1	5145.9	5159.7	5256.7	5377.9	5559.7	5746.7	5793.4	6093.0	6447.9	6870.4
22.5°	5216.9	5223.8	5230.7	5296.5	5391.7	5570.1	5796.9	5859.2	6238.4	6598.6	7024.5
25°	5358.8	5360.6	5367.5	5421.2	5464.5	5599.5	5880.0	5973.5	6465.2	6818.5	7218.4
27.5°	5549.3	5573.5	5580.5	5615.1	5615.1	5672.2	6009.9	6144.9	6771.7	7135.3	7466.0
30°	5815.9	5824.6	5836.7	5874.8	5833.3	5809.0	6200.3	6373.5	7126.7	7518.0	7763.8
32.5°	6049.7	6068.7	6134.5	6196.9	6122.4	6046.2	6480.8	6685.1	7467.8	7916.2	8080.7
35°	6248.8	6295.6	6422.0	6560.5	6508.5	6432.3	6853.1	7066.1	7748.3	8201.9	8361.2
37.5°	6489.5	6525.8	6699.0	6924.1	6970.8	6934.5	7306.7	7459.1	7935.2	8274.6	8513.6
40°	6733.6	6789.0	7012.4	7324.0	7502.4	7528.4	7725.7	7827.9	7999.3	8132.6	8484.1
42.5°	6982.9	7078.2	7384.6	7748.3	8065.1	8124.0	8079.0	8122.2	7978.5	7937.0	8347.3
45°	7287.7	7400.2	7746.5	8210.5	8627.8	8719.6	8425.2	8385.4	7975.1	7862.5	8262.5
47.5°	7647.8	7760.4	8091.1	8631.3	9164.6	9232.1	8780.2	8707.5	8096.3	7976.8	8376.8
50°	7966.4	8044.3	8340.4	8944.7	9665.0	9704.8	9171.5	9083.2	8397.5	8293.7	8733.4
52.5°	7642.6	7634.0	7945.6	8690.2	9924.7	10404.3	9774.1	9689.2	8979.3	8820.0	9285.8
55°	6484.3	6385.6	6664.4	7396.8	9199.2	11025.9	10854.5	10684.8	9755.0	9349.8	9803.5
57.5°	4740.7	4713.0	4780.5	5467.9	7369.1	10063.2	11515.9	11500.3	10425.1	9834.7	10319.5
60°	3707.0	3665.5	3485.4	3504.5	5022.9	7860.8	9993.9	10452.8	10840.6	10125.5	10679.6
62.5°	3291.5	3260.3	3166.8	2908.8	2992.0	5270.5	7325.8	7746.5	9472.8	8943.0	9173.2
65°	2725.3	2716.6	2794.6	2784.2	2507.1	2910.6	4134.7	4558.9	5956.2	6030.6	5956.2
67.5°	1980.8	1965.2	2162.6	2552.2	2413.6	2197.2	2304.6	2451.7	3054.3	2742.6	2469.1
70°	1288.2	1265.7	1380.0	1844.0	2160.9	1915.0	1660.5	1636.2	1679.5	1044.1	1128.9
72.5°	864.0	838.0	836.3	1014.6	1305.5	1289.9	1286.5	1274.3	1137.6	824.2	914.2
75°	481.3	460.6	455.4	438.1	467.5	476.1	507.3	524.6	567.9	625.1	692.6
77.5°	81.4	79.6	100.4	128.1	176.6	226.8	280.5	296.1	365.3	432.9	476.1
80°	45.0	46.7	60.6	74.5	98.7	135.1	173.1	183.5	225.1	261.4	296.1
82.5°	24.2	24.2	31.2	39.8	53.7	71.0	93.5	102.2	129.9	152.4	176.6
85°	8.7	8.7	12.1	15.6	22.5	29.4	36.4	41.6	57.1	77.9	88.3
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	6.9	6.9	8.7	15.6	22.5
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°	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1
2.5°	6603.8	6557.0	6621.1	6650.5	6660.9	6667.8	6622.8	6591.6	6581.3	6548.4	6529.3
5°	6628.0	6596.8	6657.4	6657.4	6614.1	6569.1	6477.4	6413.3	6368.3	6314.6	6306.0
7.5°	6669.6	6647.0	6679.9	6612.4	6503.3	6382.1	6222.8	6098.2	5997.8	5932.0	5933.7
10°	6725.0	6697.3	6671.3	6520.7	6321.5	6098.2	5854.0	5672.2	5506.0	5429.8	5388.3
12.5°	6761.3	6721.5	6612.4	6363.1	6070.5	5770.9	5426.4	5156.3	4915.6	4806.5	4797.9
15°	6806.3	6733.6	6515.5	6158.8	5751.9	5343.3	4900.0	4524.3	4198.8	4029.1	4020.4
17.5°	6865.2	6745.7	6399.4	5925.0	5416.0	4813.4	4255.9	3783.2	3436.9	3305.3	3327.9
20°	6948.3	6759.6	6267.9	5665.3	4998.7	4210.9	3516.6	3082.0	2948.7	2940.0	2922.7
22.5°	7041.8	6768.2	6122.4	5374.4	4493.1	3568.5	2905.4	2720.1	2718.4	2761.7	2772.1
25°	7147.4	6775.2	5957.9	5035.1	3946.0	2927.9	2569.5	2514.1	2557.4	2638.7	2649.1
27.5°	7282.5	6789.0	5758.8	4662.8	3364.2	2529.7	2384.2	2370.4	2422.3	2498.5	2495.0
30°	7481.6	6839.2	5547.6	4235.1	2766.9	2340.9	2271.7	2273.4	2294.2	2330.5	2335.7
32.5°	7684.2	6917.2	5341.5	3753.8	2424.0	2233.6	2202.4	2198.9	2198.9	2214.5	2218.0
35°	7876.4	7005.5	5118.2	3251.7	2257.8	2171.2	2150.5	2140.1	2134.9	2131.4	2126.2
37.5°	7983.7	7048.7	4900.0	2756.5	2169.5	2129.7	2108.9	2095.1	2076.0	2062.2	2058.7
40°	7937.0	6998.5	4647.2	2385.9	2115.8	2089.9	2065.6	2046.6	2020.6	2008.5	2001.6
42.5°	7781.1	6842.7	4371.9	2211.1	2072.5	2046.6	2017.1	1986.0	1968.7	1958.3	1956.5
45°	7616.7	6654.0	4039.5	2108.9	2031.0	1999.8	1965.2	1930.6	1911.5	1906.3	1904.6
47.5°	7611.5	6560.5	3686.3	2027.5	1980.8	1949.6	1906.3	1871.7	1850.9	1844.0	1837.1
50°	7840.0	6655.7	3288.0	1956.5	1928.8	1895.9	1847.5	1809.4	1783.4	1774.7	1773.0
52.5°	8314.4	7014.1	2931.3	1885.6	1859.6	1821.5	1781.7	1743.6	1712.4	1696.8	1695.1
55°	8826.9	7469.5	2709.7	1812.8	1778.2	1745.3	1708.9	1667.4	1632.8	1608.5	1605.1
57.5°	9356.8	7966.4	2642.2	1721.1	1695.1	1672.6	1629.3	1584.3	1544.5	1521.9	1516.8
60°	9793.1	8394.1	2768.6	1624.1	1610.3	1580.8	1541.0	1497.7	1470.0	1452.7	1449.2
62.5°	8198.4	6834.0	2235.3	1518.5	1518.5	1487.3	1442.3	1411.1	1392.1	1380.0	1376.5
65°	5203.0	4231.7	1525.4	1412.9	1411.1	1369.6	1331.5	1310.7	1302.1	1283.0	1279.5
67.5°	2266.5	1934.0	1303.8	1305.5	1298.6	1253.6	1215.5	1199.9	1182.6	1161.8	1160.1
70°	1175.7	1198.2	1167.0	1186.0	1173.9	1120.2	1083.9	1059.6	1023.3	1002.5	1004.2
72.5°	948.8	973.1	1007.7	1037.1	1011.2	967.9	910.7	881.3	834.6	812.1	813.8
75°	723.7	749.7	782.6	813.8	793.0	739.3	703.0	673.5	619.9	593.9	599.1
77.5°	498.7	512.5	552.3	550.6	543.7	528.1	474.4	439.8	384.4	353.2	356.7
80°	309.9	318.6	337.6	346.3	342.8	322.1	278.8	252.8	219.9	200.8	202.6
82.5°	187.0	192.2	209.5	211.2	209.5	193.9	161.0	142.0	121.2	110.8	110.8
85°	95.2	98.7	109.1	109.1	98.7	83.1	74.5	65.8	53.7	48.5	48.5
87.5°	26.0	26.0	32.9	27.7	22.5	20.8	10.4	8.7	3.5	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)