

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: P636215

Luminaire Tested: GWS-SA3F-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636215  
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-SA3F-735-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

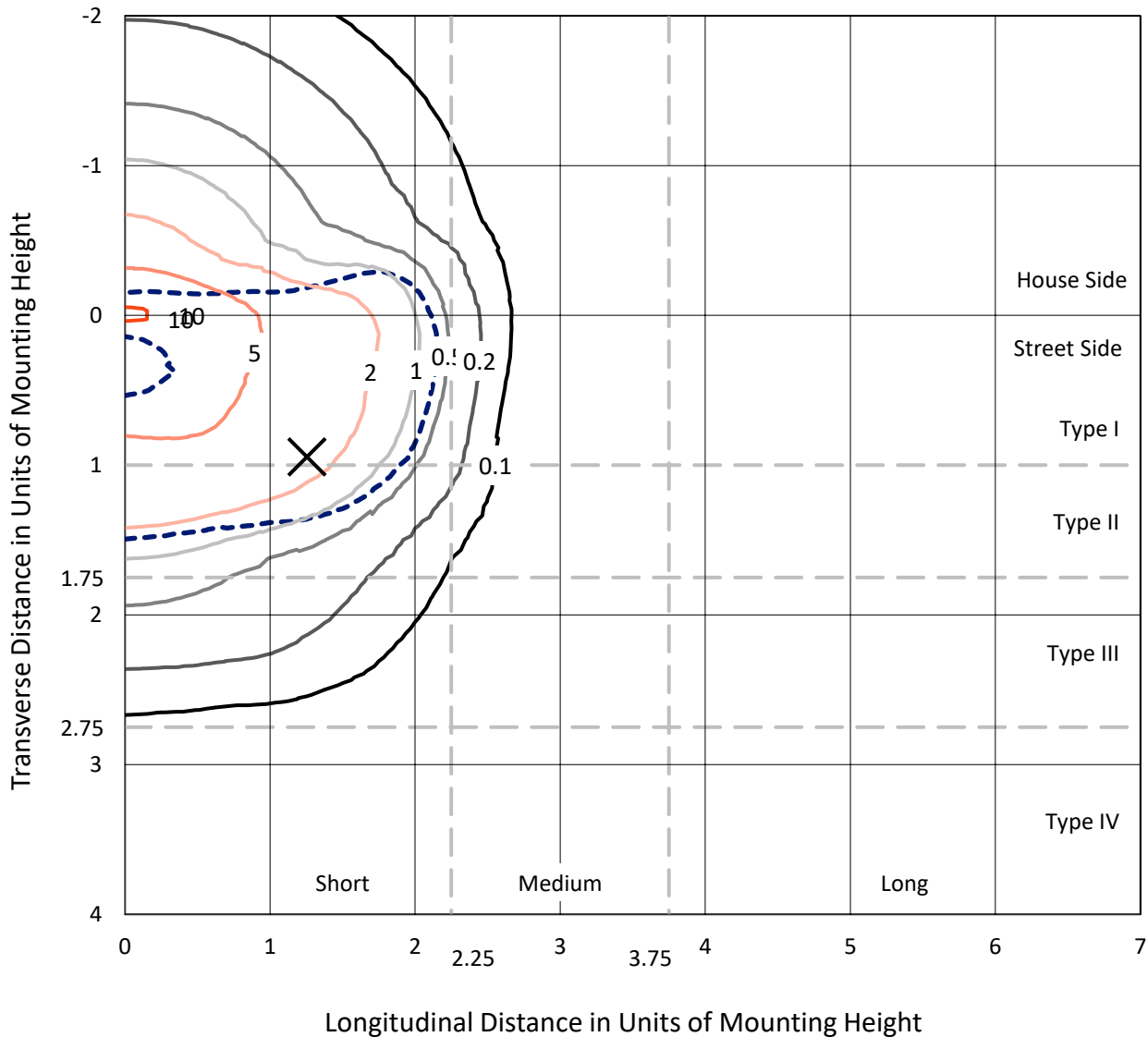
Lumens per Lamp: N/A  
Luminaire Lumens: 20539.5 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

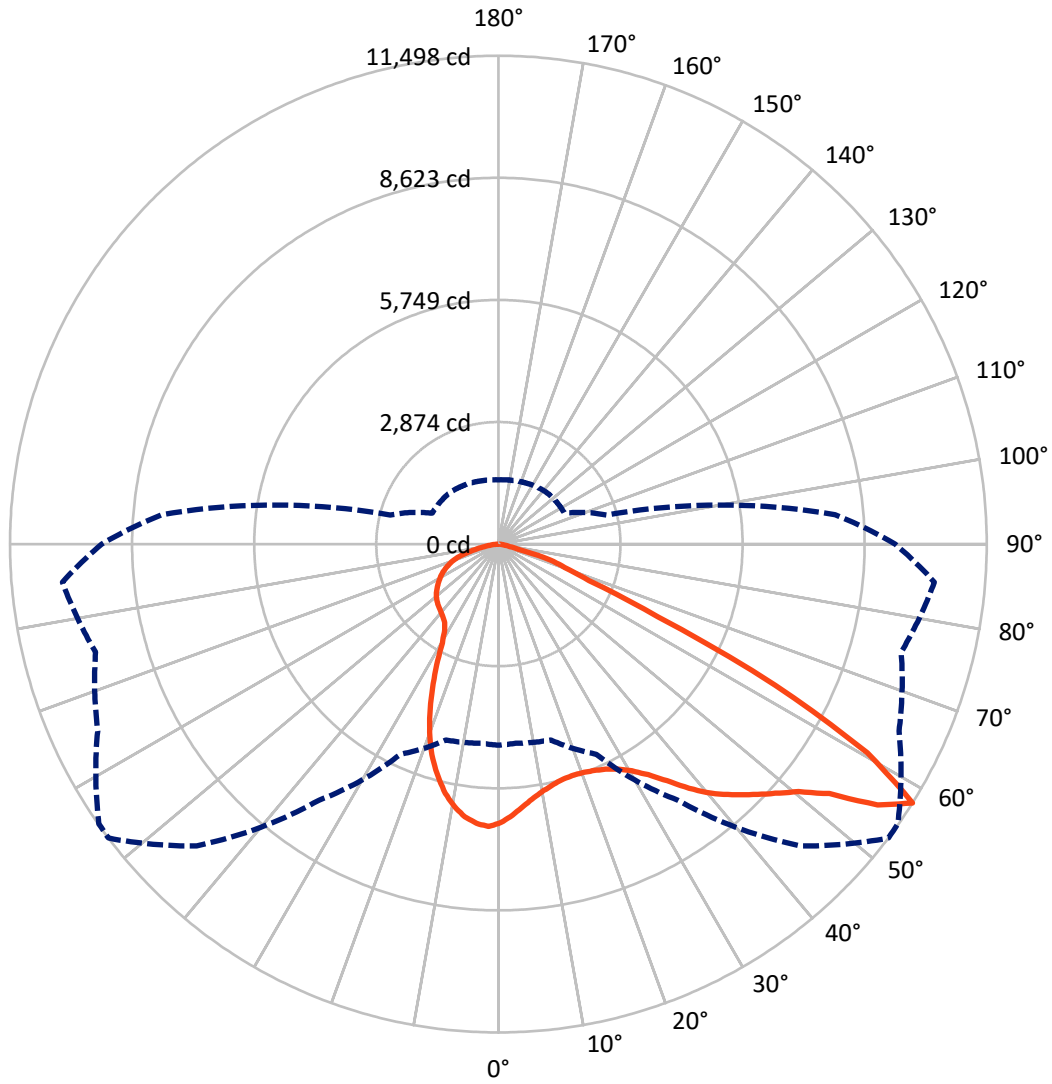
✕ Max cd  
 - - - 1/2 Max cd



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	6421.9	0.0	6421.9
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	14117.6	0.0	14117.6
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	20539.5	0.0	20539.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.1	2.9
10°-20°	1556.1	7.6
20°-30°	2292.6	11.2
30°-40°	3209.1	15.6
40°-50°	4218.6	20.5
50°-60°	4946.3	24.1
60°-70°	2913.9	14.2
70°-80°	724.9	3.5
80°-90°	85.0	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°	20539.5	100.0
0°-180°	20539.5	100.0

**Coefficient of Utilization**



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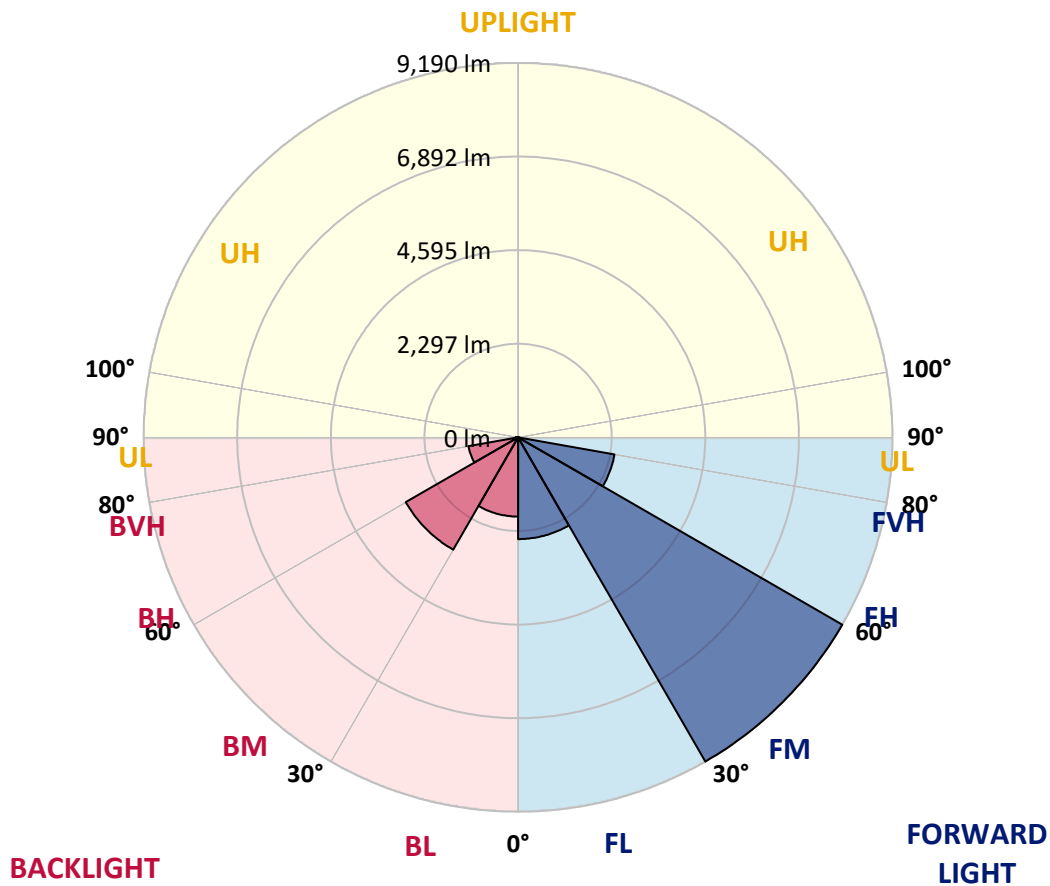
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.2	12.2			
FM (30°-60°)	9189.6	44.7			
FH (60°-80°)	2402.3	11.7			G2/5000
FVH (80°-90°)	28.5	0.1			G1/100
BL (0°-30°)	1944.6	9.5	B3/2500		
BM (30°-60°)	3184.3	15.5	B3/5000		
BH (60°-80°)	1236.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	56.6	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°	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8
2.5°	6182.0	6199.2	6202.7	6256.3	6259.7	6337.5	6389.4	6379.0	6432.6	6498.3	6550.2
5°	5886.3	5888.1	5905.4	5969.3	6003.9	6105.9	6192.3	6192.3	6296.0	6430.9	6546.7
7.5°	5642.6	5640.9	5656.4	5727.3	5784.3	5907.1	6024.6	6038.5	6183.7	6380.8	6569.2
10°	5416.1	5428.2	5445.5	5531.9	5604.6	5756.7	5896.7	5919.2	6102.4	6346.2	6600.3
12.5°	5270.9	5272.6	5298.6	5395.4	5488.7	5651.2	5798.2	5825.8	6036.7	6313.3	6622.8
15°	5177.6	5179.3	5206.9	5314.1	5423.0	5587.3	5737.7	5768.8	5998.7	6308.2	6666.0
17.5°	5136.1	5134.3	5160.3	5267.5	5386.7	5557.9	5718.7	5756.7	6016.0	6347.9	6742.1
20°	5136.1	5137.8	5151.6	5248.4	5369.4	5551.0	5737.7	5784.3	6083.4	6437.8	6859.6
22.5°	5208.7	5215.6	5222.5	5288.2	5383.3	5561.3	5787.8	5850.0	6228.6	6588.2	7013.5
25°	5350.4	5352.2	5359.1	5412.7	5455.9	5590.7	5870.8	5964.1	6455.1	6807.8	7207.1
27.5°	5540.6	5564.8	5571.7	5606.3	5606.3	5663.3	6000.4	6135.3	6761.1	7124.1	7454.3
30°	5806.8	5815.5	5827.6	5865.6	5824.1	5799.9	6190.6	6363.5	7115.5	7506.2	7751.6
32.5°	6040.2	6059.2	6124.9	6187.1	6112.8	6036.7	6470.7	6674.6	7456.0	7903.8	8068.0
35°	6239.0	6285.7	6411.9	6550.2	6498.3	6422.2	6842.3	7055.0	7736.1	8189.0	8348.1
37.5°	6479.3	6515.6	6688.5	6913.2	6959.9	6923.6	7295.3	7447.4	7922.8	8261.6	8500.2
40°	6723.0	6778.4	7001.4	7312.5	7490.6	7516.5	7713.6	7815.6	7986.8	8119.9	8470.8
42.5°	6972.0	7067.1	7373.1	7736.1	8052.4	8111.2	8066.3	8109.5	7966.0	7924.5	8334.2
45°	7276.2	7388.6	7734.4	8197.7	8614.3	8705.9	8412.0	8372.3	7962.5	7850.2	8249.5
47.5°	7635.8	7748.2	8078.4	8617.7	9150.2	9217.6	8766.4	8693.8	8083.6	7964.3	8363.6
50°	7953.9	8031.7	8327.3	8930.6	9649.8	9689.6	9157.1	9068.9	8384.4	8280.6	8719.7
52.5°	7630.6	7622.0	7933.2	8676.5	9909.1	10388.0	9758.7	9674.0	8965.2	8806.2	9271.2
55°	6474.1	6375.6	6653.9	7385.2	9184.8	11008.6	10837.4	10668.0	9739.7	9335.2	9788.1
57.5°	4733.3	4705.6	4773.0	5459.3	7357.5	10047.4	11497.8	11482.3	10408.7	9819.2	10303.3
60°	3701.2	3659.7	3479.9	3499.0	5015.1	7848.5	9978.3	10436.4	10823.6	10109.6	10662.8
62.5°	3286.3	3255.2	3161.9	2904.3	2987.3	5262.3	7314.3	7734.4	9457.9	8928.9	9158.8
65°	2721.0	2712.4	2790.2	2779.8	2503.2	2906.0	4128.2	4551.8	5946.8	6021.2	5946.8
67.5°	1977.7	1962.1	2159.2	2548.2	2409.9	2193.8	2300.9	2447.9	3049.5	2738.3	2465.2
70°	1286.2	1263.7	1377.8	1841.1	2157.5	1912.0	1657.9	1633.7	1676.9	1042.4	1127.1
72.5°	862.6	836.7	835.0	1013.0	1303.5	1287.9	1284.4	1272.3	1135.8	822.9	912.8
75°	480.6	459.8	454.7	437.4	466.8	475.4	506.5	523.8	567.0	624.1	691.5
77.5°	81.3	79.5	100.3	127.9	176.3	226.5	280.1	295.6	364.8	432.2	475.4
80°	44.9	46.7	60.5	74.3	98.5	134.8	172.9	183.2	224.7	261.0	295.6
82.5°	24.2	24.2	31.1	39.8	53.6	70.9	93.4	102.0	129.7	152.1	176.3
85°	8.6	8.6	12.1	15.6	22.5	29.4	36.3	41.5	57.0	77.8	88.2
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	6.9	6.9	8.6	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°	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8	6558.8
2.5°	6593.4	6546.7	6610.7	6640.1	6650.4	6657.4	6612.4	6581.3	6570.9	6538.1	6519.1
5°	6617.6	6586.5	6647.0	6647.0	6603.8	6558.8	6467.2	6403.2	6358.3	6304.7	6296.0
7.5°	6659.1	6636.6	6669.5	6602.0	6493.1	6372.1	6213.1	6088.6	5988.3	5922.6	5924.4
10°	6714.4	6686.7	6660.8	6510.4	6311.6	6088.6	5844.9	5663.3	5497.4	5421.3	5379.8
12.5°	6750.7	6710.9	6602.0	6353.1	6060.9	5761.9	5417.9	5148.2	4907.9	4799.0	4790.3
15°	6795.7	6723.0	6505.2	6149.1	5742.9	5334.9	4892.3	4517.2	4192.2	4022.8	4014.1
17.5°	6854.4	6735.1	6389.4	5915.7	5407.5	4805.9	4249.2	3777.3	3431.5	3300.2	3322.6
20°	6937.4	6749.0	6258.0	5656.4	4990.9	4204.3	3511.1	3077.1	2944.0	2935.4	2918.1
22.5°	7030.8	6757.6	6112.8	5366.0	4486.1	3562.9	2900.8	2715.8	2714.1	2757.3	2767.7
25°	7136.2	6764.5	5948.6	5027.2	3939.8	2923.3	2565.4	2510.1	2553.3	2634.6	2645.0
27.5°	7271.1	6778.4	5749.8	4655.5	3358.9	2525.7	2380.5	2366.6	2418.5	2494.6	2491.1
30°	7469.9	6828.5	5538.9	4228.5	2762.5	2337.2	2268.1	2269.8	2290.6	2326.9	2332.1
32.5°	7672.1	6906.3	5333.1	3747.9	2420.2	2230.1	2198.9	2195.5	2195.5	2211.1	2214.5
35°	7864.0	6994.5	5110.1	3246.6	2254.3	2167.8	2147.1	2136.7	2131.5	2128.1	2122.9
37.5°	7971.2	7037.7	4892.3	2752.1	2166.1	2126.3	2105.6	2091.8	2072.8	2058.9	2055.5
40°	7924.5	6987.5	4639.9	2382.2	2112.5	2086.6	2062.4	2043.4	2017.4	2005.3	1998.4
42.5°	7768.9	6832.0	4365.1	2207.6	2069.3	2043.4	2014.0	1982.9	1965.6	1955.2	1953.5
45°	7604.7	6643.5	4033.1	2105.6	2027.8	1996.7	1962.1	1927.5	1908.5	1903.3	1901.6
47.5°	7599.5	6550.2	3680.5	2024.3	1977.7	1946.6	1903.3	1868.8	1848.0	1841.1	1834.2
50°	7827.7	6645.3	3282.9	1953.5	1925.8	1893.0	1844.6	1806.5	1780.6	1772.0	1770.2
52.5°	8301.4	7003.1	2926.7	1882.6	1856.7	1818.6	1778.9	1740.8	1709.7	1694.2	1692.4
55°	8813.1	7457.8	2705.5	1810.0	1775.4	1742.6	1706.3	1664.8	1630.2	1606.0	1602.5
57.5°	9342.1	7953.9	2638.0	1718.4	1692.4	1670.0	1626.7	1581.8	1542.0	1519.6	1514.4
60°	9777.7	8380.9	2764.2	1621.6	1607.7	1578.3	1538.6	1495.4	1467.7	1450.4	1447.0
62.5°	8185.6	6823.3	2231.8	1516.1	1516.1	1485.0	1440.0	1408.9	1389.9	1377.8	1374.3
65°	5194.8	4225.0	1523.0	1410.6	1408.9	1367.4	1329.4	1308.7	1300.0	1281.0	1277.5
67.5°	2262.9	1931.0	1301.7	1303.5	1296.6	1251.6	1213.6	1198.0	1180.7	1160.0	1158.3
70°	1173.8	1196.3	1165.2	1184.2	1172.1	1118.5	1082.2	1058.0	1021.7	1000.9	1002.7
72.5°	947.3	971.5	1006.1	1035.5	1009.6	966.4	909.3	879.9	833.2	810.8	812.5
75°	722.6	748.5	781.4	812.5	791.8	738.2	701.9	672.5	618.9	593.0	598.1
77.5°	497.9	511.7	551.5	549.7	542.8	527.3	473.7	439.1	383.8	352.7	356.1
80°	309.4	318.1	337.1	345.7	342.3	321.5	278.3	252.4	219.5	200.5	202.3
82.5°	186.7	191.9	209.2	210.9	209.2	193.6	160.8	141.8	121.0	110.6	110.6
85°	95.1	98.5	108.9	108.9	98.5	83.0	74.3	65.7	53.6	48.4	48.4
87.5°	25.9	25.9	32.8	27.7	22.5	20.7	10.4	8.6	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)