

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: P638360

Luminaire Tested: GWS-SA4E-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638360  
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-SA4E-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

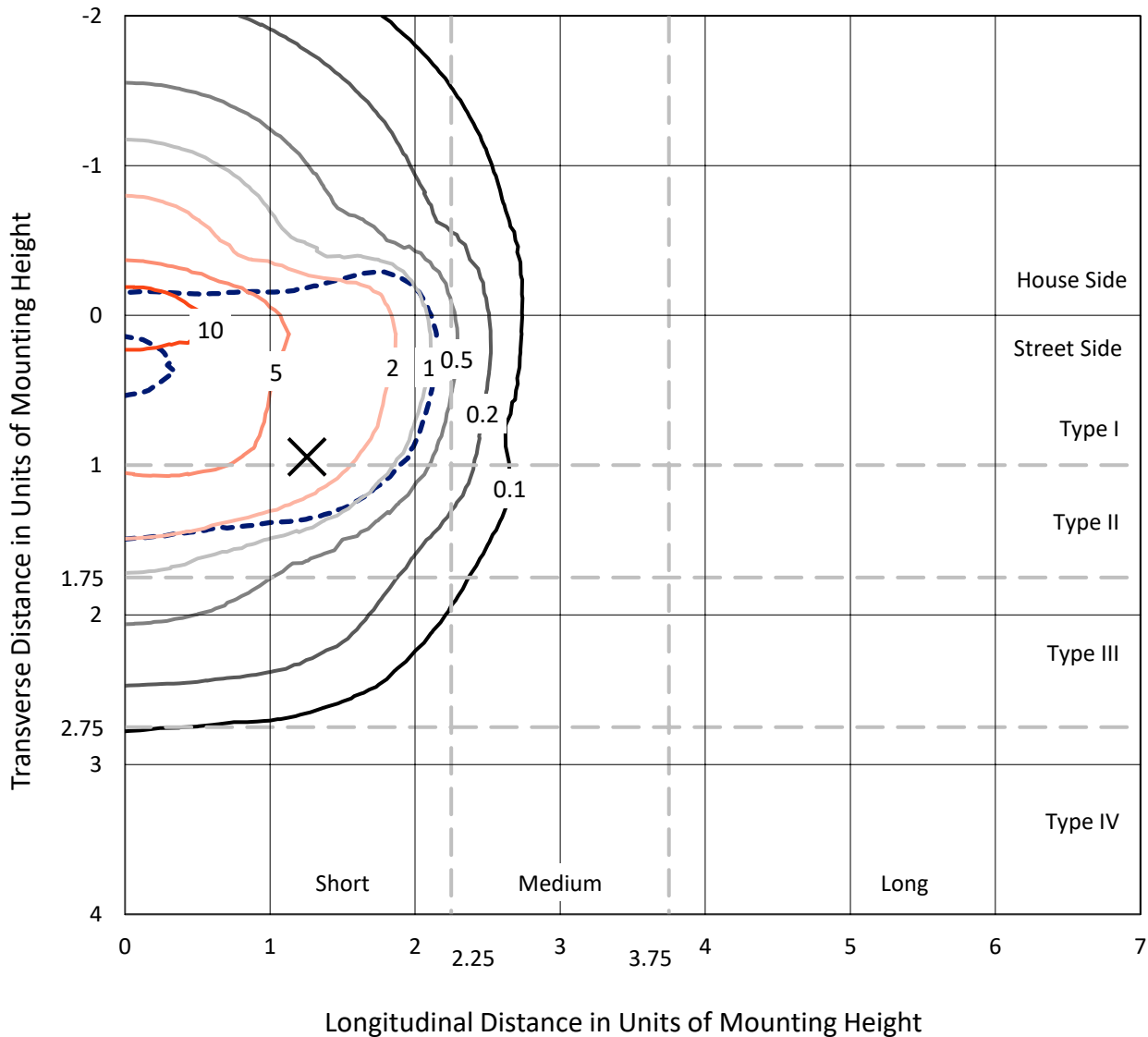
Lumens per Lamp: N/A  
Luminaire Lumens: 26296.6 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

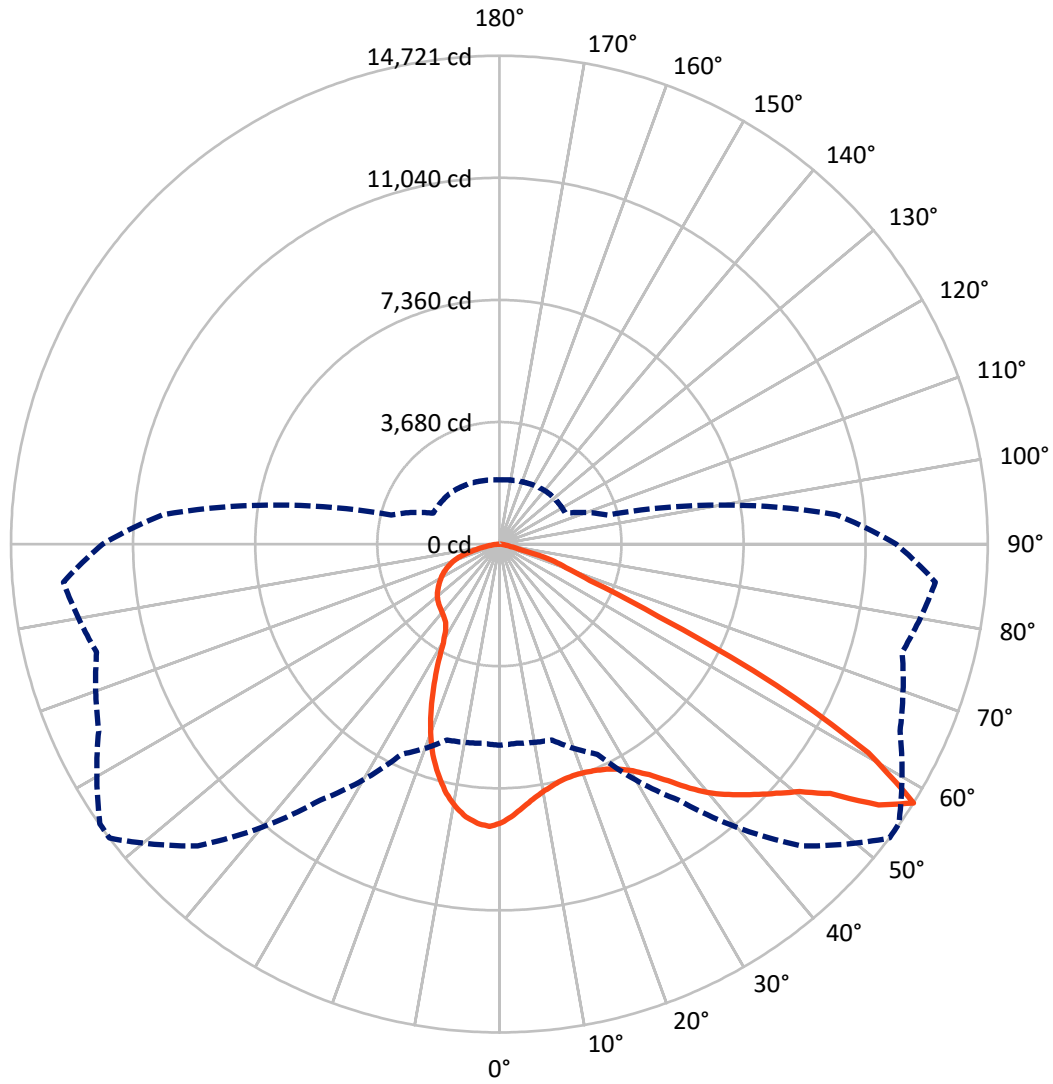
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	8222.0	0.0	8222.0
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	18074.6	0.0	18074.6
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	26296.6	0.0	26296.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.4	2.9
10°-20°	1992.2	7.6
20°-30°	2935.2	11.2
30°-40°	4108.5	15.6
40°-50°	5401.0	20.5
50°-60°	6332.7	24.1
60°-70°	3730.6	14.2
70°-80°	928.1	3.5
80°-90°	108.9	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°	26296.6	100.0
0°-180°	26296.6	100.0

**Coefficient of Utilization**



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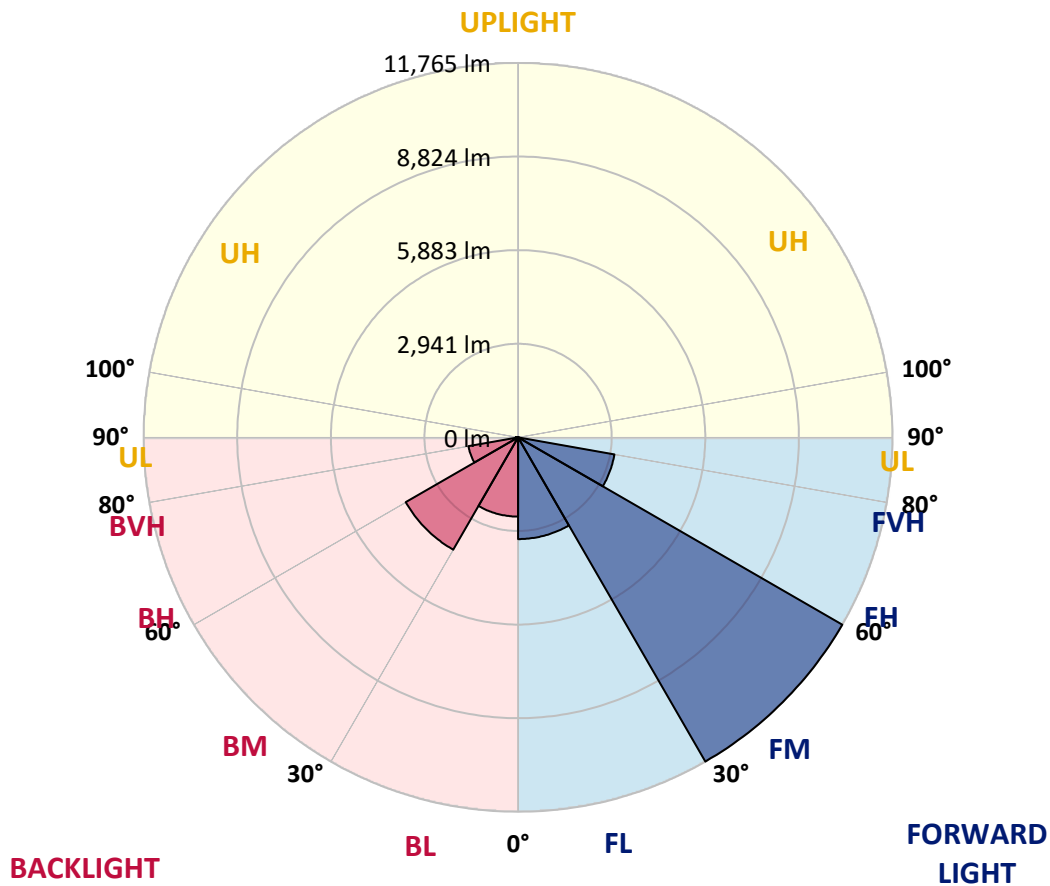
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3197.1	12.2			
FM (30°-60°)	11765.3	44.7			
FH (60°-80°)	3075.7	11.7			G2/5000
FVH (80°-90°)	36.4	0.1			G1/100
BL (0°-30°)	2489.7	9.5	B3/2500		
BM (30°-60°)	4076.9	15.5	B3/5000		
BH (60°-80°)	1583.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	72.4	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°	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2
2.5°	7914.7	7936.9	7941.3	8009.9	8014.3	8113.9	8180.3	8167.0	8235.6	8319.7	8386.1
5°	7536.2	7538.5	7560.6	7642.5	7686.7	7817.3	7928.0	7928.0	8060.8	8233.4	8381.7
7.5°	7224.2	7222.0	7241.9	7332.6	7405.7	7562.8	7713.3	7731.0	7916.9	8169.2	8410.5
10°	6934.2	6949.7	6971.9	7082.5	7175.5	7370.2	7549.5	7578.3	7812.9	8125.0	8450.3
12.5°	6748.3	6750.5	6783.7	6907.7	7027.2	7235.2	7423.4	7458.8	7728.8	8082.9	8479.1
15°	6628.8	6631.0	6666.4	6803.6	6943.1	7153.3	7345.9	7385.7	7680.1	8076.3	8534.4
17.5°	6575.7	6573.5	6606.7	6743.9	6896.6	7115.7	7321.6	7370.2	7702.2	8127.2	8631.8
20°	6575.7	6577.9	6595.6	6719.5	6874.5	7106.9	7345.9	7405.7	7788.6	8242.3	8782.3
22.5°	6668.6	6677.5	6686.3	6770.4	6892.2	7120.1	7410.1	7489.8	7974.5	8434.8	8979.3
25°	6850.1	6852.3	6861.2	6929.8	6985.1	7157.8	7516.3	7635.8	8264.4	8715.9	9227.2
27.5°	7093.6	7124.6	7133.4	7177.7	7177.7	7250.7	7682.3	7855.0	8656.2	9121.0	9543.7
30°	7434.4	7445.5	7461.0	7509.7	7456.6	7425.6	7925.8	8147.1	9109.9	9610.1	9924.4
32.5°	7733.2	7757.6	7841.7	7921.4	7826.2	7728.8	8284.3	8545.5	9545.9	10119.2	10329.4
35°	7987.8	8047.5	8209.1	8386.1	8319.7	8222.4	8760.2	9032.4	9904.5	10484.3	10688.0
37.5°	8295.4	8341.9	8563.2	8850.9	8910.7	8864.2	9340.1	9534.8	10143.5	10577.3	10882.7
40°	8607.5	8678.3	8963.8	9362.2	9590.2	9623.4	9875.7	10006.3	10225.4	10395.8	10845.1
42.5°	8926.2	9047.9	9439.7	9904.5	10309.5	10384.7	10327.2	10382.5	10198.8	10145.7	10670.3
45°	9315.7	9459.6	9902.3	10495.4	11028.8	11146.1	10769.9	10719.0	10194.4	10050.5	10561.8
47.5°	9776.1	9920.0	10342.7	11033.2	11714.9	11801.3	11223.6	11130.6	10349.3	10196.6	10707.9
50°	10183.3	10282.9	10661.4	11433.8	12354.6	12405.5	11723.8	11610.9	10734.4	10601.6	11163.8
52.5°	9769.5	9758.4	10156.8	11108.5	12686.6	13299.6	12494.0	12385.6	11478.1	11274.5	11869.9
55°	8288.8	8162.6	8518.9	9455.2	11759.2	14094.2	13875.1	13658.2	12469.7	11951.8	12531.6
57.5°	6060.0	6024.6	6110.9	6989.6	9419.8	12863.6	14720.6	14700.7	13326.2	12571.5	13191.2
60°	4738.6	4685.5	4455.3	4479.7	6420.7	10048.3	12775.1	13361.6	13857.4	12943.3	13651.6
62.5°	4207.5	4167.6	4048.1	3718.3	3824.6	6737.2	9364.4	9902.3	12108.9	11431.6	11726.0
65°	3483.7	3472.6	3572.2	3559.0	3204.8	3720.5	5285.3	5827.6	7613.7	7708.9	7613.7
67.5°	2532.0	2512.1	2764.4	3262.4	3085.3	2808.7	2945.9	3134.0	3904.2	3505.8	3156.1
70°	1646.7	1617.9	1764.0	2357.2	2762.2	2447.9	2122.5	2091.6	2146.9	1334.6	1443.1
72.5°	1104.4	1071.2	1069.0	1297.0	1668.8	1648.9	1644.5	1629.0	1454.1	1053.5	1168.6
75°	615.3	588.7	582.1	560.0	597.6	608.7	648.5	670.6	726.0	799.0	885.3
77.5°	104.0	101.8	128.4	163.8	225.8	289.9	358.6	378.5	467.0	553.3	608.7
80°	57.5	59.8	77.5	95.2	126.2	172.6	221.3	234.6	287.7	334.2	378.5
82.5°	31.0	31.0	39.8	50.9	68.6	90.7	119.5	130.6	166.0	194.8	225.8
85°	11.1	11.1	15.5	19.9	28.8	37.6	46.5	53.1	73.0	99.6	112.9
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.9	8.9	11.1	19.9	28.8
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°	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2	8397.2
2.5°	8441.5	8381.7	8463.6	8501.2	8514.5	8523.4	8465.8	8426.0	8412.7	8370.7	8346.3
5°	8472.5	8432.6	8510.1	8510.1	8454.8	8397.2	8279.9	8198.0	8140.5	8071.9	8060.8
7.5°	8525.6	8496.8	8538.9	8452.5	8313.1	8158.2	7954.6	7795.2	7666.8	7582.7	7584.9
10°	8596.4	8561.0	8527.8	8335.2	8080.7	7795.2	7483.1	7250.7	7038.3	6940.9	6887.8
12.5°	8642.9	8592.0	8452.5	8133.8	7759.8	7376.9	6936.4	6591.2	6283.5	6144.1	6133.0
15°	8700.4	8607.5	8328.6	7872.7	7352.5	6830.2	6263.6	5783.3	5367.2	5150.3	5139.3
17.5°	8775.7	8623.0	8180.3	7573.9	6923.2	6152.9	5440.3	4836.0	4393.4	4225.2	4253.9
20°	8881.9	8640.7	8012.1	7241.9	6389.8	5382.7	4495.2	3939.7	3769.2	3758.2	3736.0
22.5°	9001.4	8651.7	7826.2	6870.0	5743.5	4561.6	3713.9	3477.1	3474.9	3530.2	3543.5
25°	9136.5	8660.6	7615.9	6436.2	5044.1	3742.7	3284.5	3213.7	3269.0	3373.1	3386.3
27.5°	9309.1	8678.3	7361.4	5960.4	4300.4	3233.6	3047.7	3030.0	3096.4	3193.8	3189.3
30°	9563.6	8742.5	7091.4	5413.7	3536.8	2992.4	2903.8	2906.0	2932.6	2979.1	2985.7
32.5°	9822.6	8842.1	6828.0	4798.4	3098.6	2855.1	2815.3	2810.9	2810.9	2830.8	2835.2
35°	10068.2	8955.0	6542.5	4156.6	2886.1	2775.5	2748.9	2735.6	2729.0	2724.6	2717.9
37.5°	10205.5	9010.3	6263.6	3523.6	2773.2	2722.3	2695.8	2678.1	2653.7	2636.0	2631.6
40°	10145.7	8946.1	5940.5	3049.9	2704.6	2671.4	2640.5	2616.1	2582.9	2567.4	2558.6
42.5°	9946.5	8746.9	5588.6	2826.4	2649.3	2616.1	2578.5	2538.6	2516.5	2503.2	2501.0
45°	9736.3	8505.7	5163.6	2695.8	2596.2	2556.3	2512.1	2467.8	2443.5	2436.8	2434.6
47.5°	9729.6	8386.1	4712.1	2591.8	2532.0	2492.2	2436.8	2392.6	2366.0	2357.2	2348.3
50°	10021.8	8507.9	4203.0	2501.0	2465.6	2423.6	2361.6	2312.9	2279.7	2268.6	2266.4
52.5°	10628.2	8966.0	3747.1	2410.3	2377.1	2328.4	2277.5	2228.8	2188.9	2169.0	2166.8
55°	11283.3	9548.1	3463.8	2317.3	2273.0	2231.0	2184.5	2131.4	2087.1	2056.1	2051.7
57.5°	11960.6	10183.3	3377.5	2200.0	2166.8	2138.0	2082.7	2025.2	1974.3	1945.5	1938.8
60°	12518.4	10730.0	3539.0	2076.1	2058.4	2020.7	1969.8	1914.5	1879.1	1856.9	1852.5
62.5°	10479.9	8735.8	2857.4	1941.1	1941.1	1901.2	1843.7	1803.8	1779.5	1764.0	1759.6
65°	6650.9	5409.3	1949.9	1806.0	1803.8	1750.7	1702.0	1675.5	1664.4	1640.0	1635.6
67.5°	2897.2	2472.2	1666.6	1668.8	1660.0	1602.4	1553.7	1533.8	1511.7	1485.1	1482.9
70°	1502.8	1531.6	1491.8	1516.1	1500.6	1432.0	1385.5	1354.5	1308.1	1281.5	1283.7
72.5°	1212.9	1243.9	1288.1	1325.8	1292.6	1237.2	1164.2	1126.6	1066.8	1038.0	1040.2
75°	925.2	958.4	1000.4	1040.2	1013.7	945.1	898.6	861.0	792.4	759.2	765.8
77.5°	637.4	655.1	706.0	703.8	695.0	675.1	606.4	562.2	491.3	451.5	455.9
80°	396.2	407.2	431.6	442.7	438.2	411.7	356.3	323.1	281.1	256.7	259.0
82.5°	239.0	245.7	267.8	270.0	267.8	247.9	205.8	181.5	154.9	141.7	141.7
85°	121.7	126.2	139.4	139.4	126.2	106.2	95.2	84.1	68.6	62.0	62.0
87.5°	33.2	33.2	42.1	35.4	28.8	26.6	13.3	11.1	4.4	2.2	2.2
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)