

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: P638305

Luminaire Tested: GWS-SA4E-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638305  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

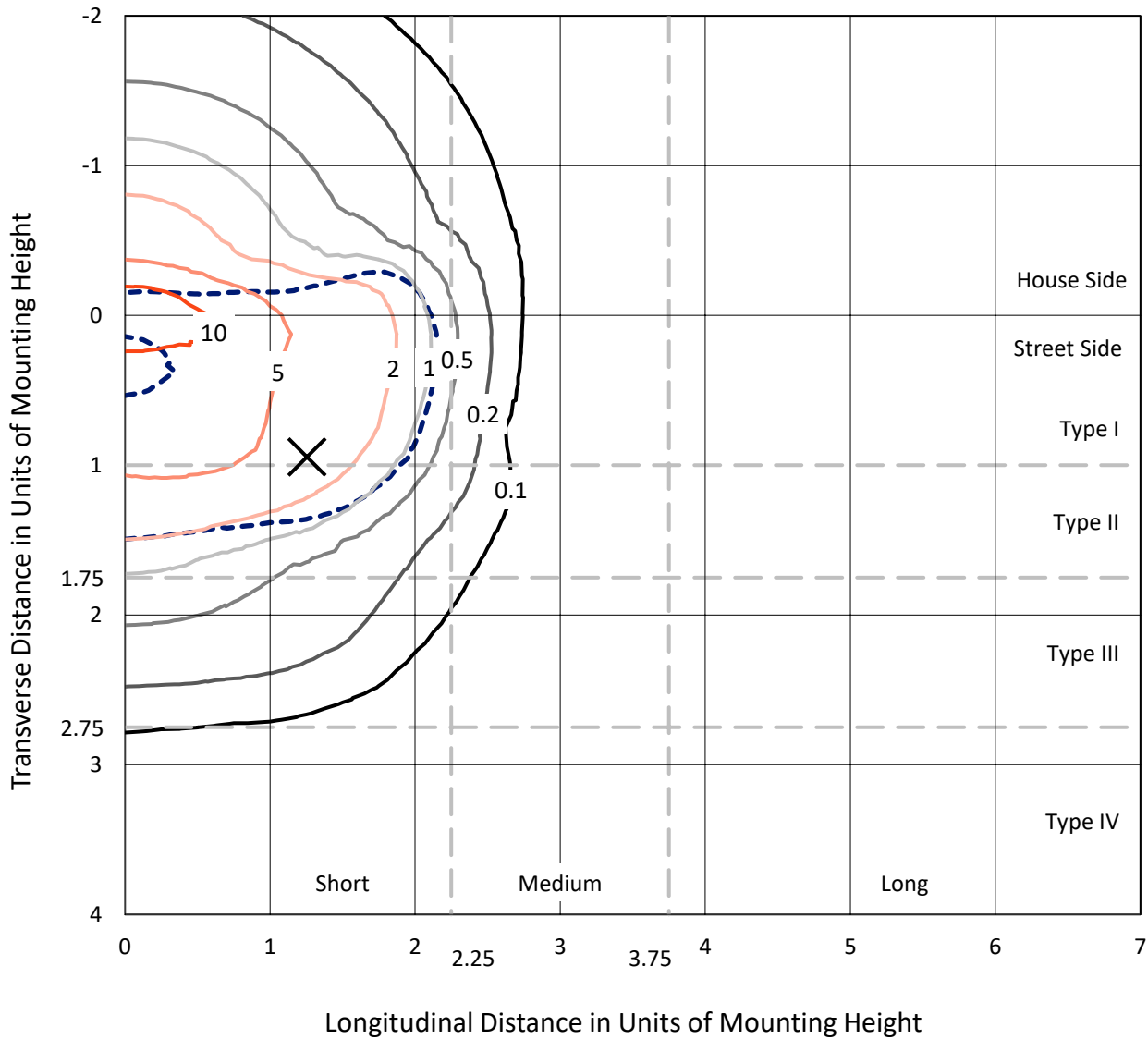
Lumens per Lamp: N/A  
Luminaire Lumens: 26662 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

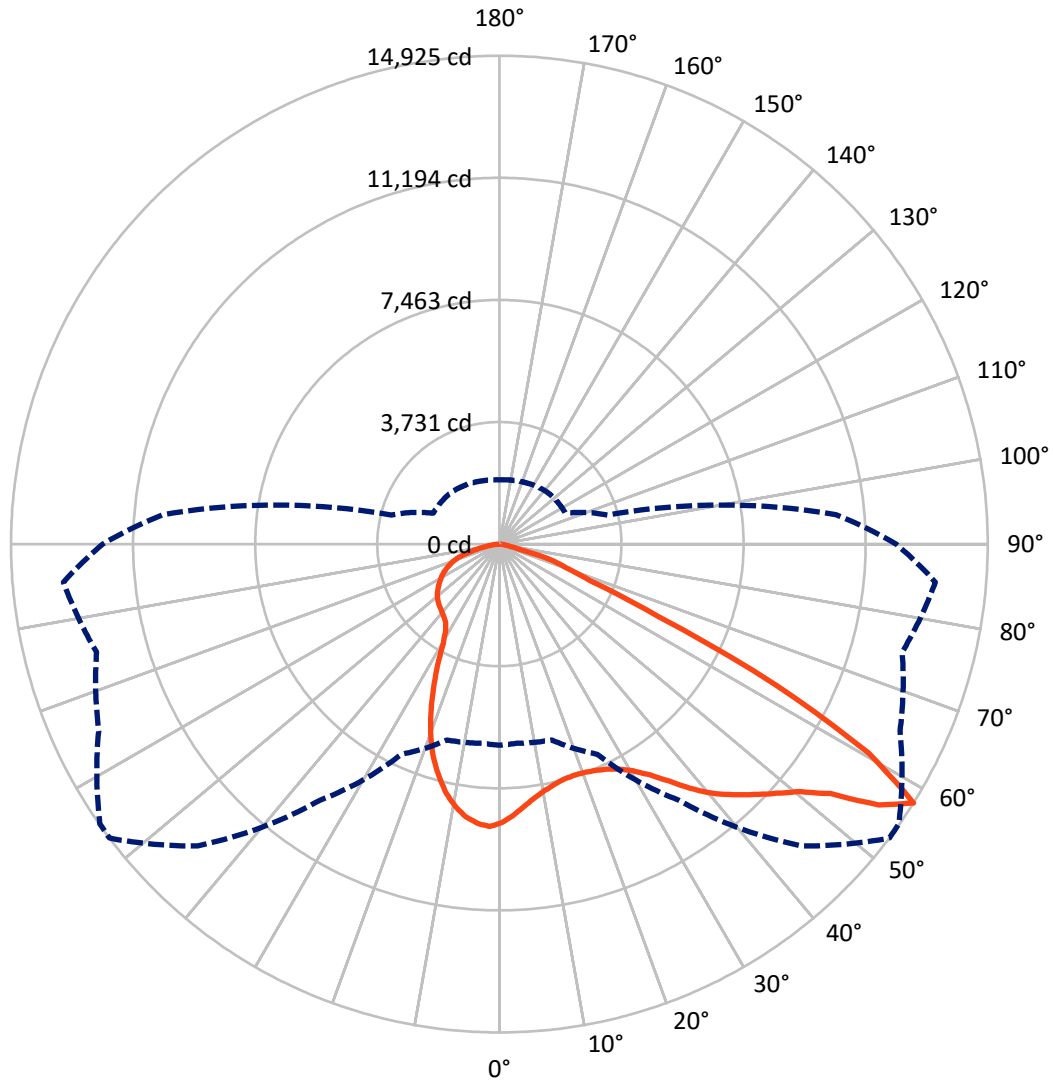
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	8336.2	0.0	8336.2
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	18325.8	0.0	18325.8
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	26662.0	0.0	26662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.9	2.9
10°-20°	2019.9	7.6
20°-30°	2976.0	11.2
30°-40°	4165.6	15.6
40°-50°	5476.0	20.5
50°-60°	6420.7	24.1
60°-70°	3782.5	14.2
70°-80°	941.0	3.5
80°-90°	110.4	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°	26662.0	100.0
0°-180°	26662.0	100.0

**Coefficient of Utilization**



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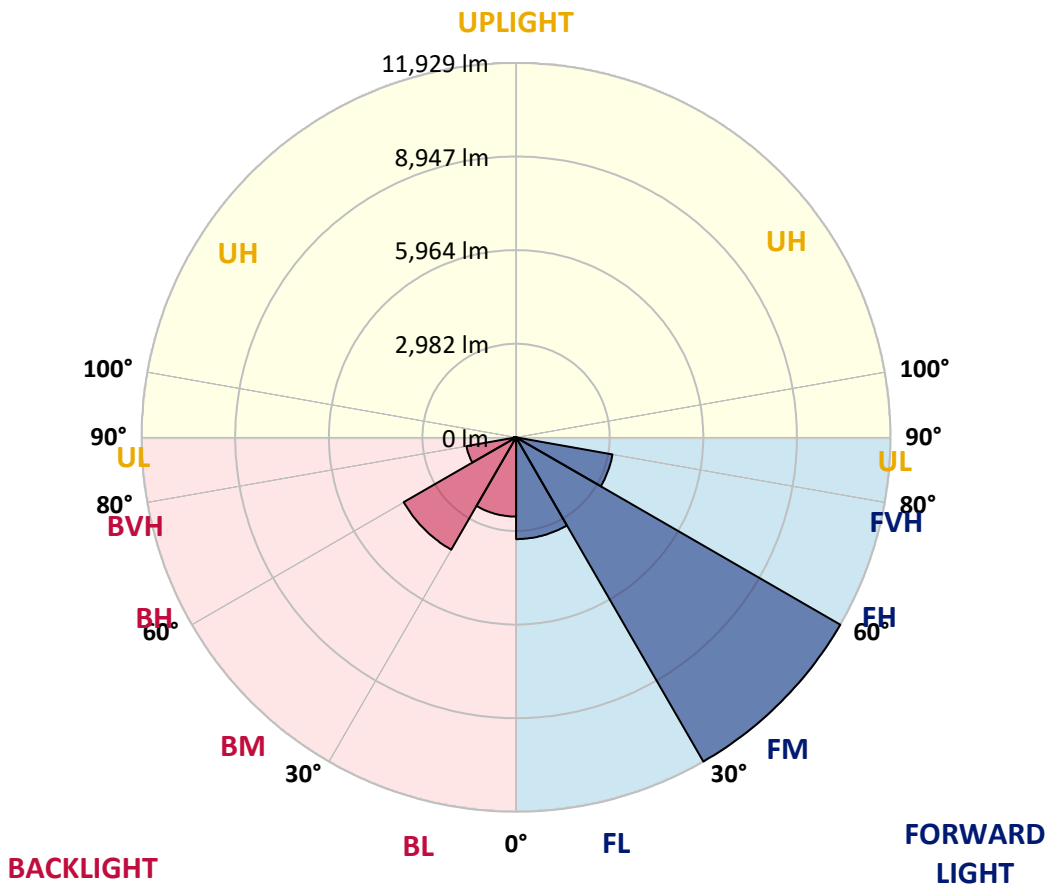
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3241.6	12.2			
FM (30°-60°)	11928.8	44.7			
FH (60°-80°)	3118.4	11.7			G2/5000
FVH (80°-90°)	36.9	0.1			G1/100
BL (0°-30°)	2524.2	9.5	B4/5000		
BM (30°-60°)	4133.5	15.5	B3/5000		
BH (60°-80°)	1605.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	73.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9
2.5°	8024.7	8047.1	8051.6	8121.2	8125.7	8226.7	8294.0	8280.5	8350.1	8435.4	8502.7
5°	7641.0	7643.2	7665.6	7748.7	7793.6	7926.0	8038.2	8038.2	8172.8	8347.8	8498.2
7.5°	7324.6	7322.3	7342.5	7434.5	7508.6	7667.9	7820.5	7838.4	8026.9	8282.8	8527.4
10°	7030.6	7046.3	7068.7	7180.9	7275.2	7472.7	7654.4	7683.6	7921.5	8237.9	8567.8
12.5°	6842.1	6844.3	6878.0	7003.7	7124.8	7335.8	7526.5	7562.4	7836.2	8195.2	8596.9
15°	6720.9	6723.2	6759.1	6898.2	7039.6	7252.7	7448.0	7488.4	7786.8	8188.5	8653.0
17.5°	6667.1	6664.8	6698.5	6837.6	6992.4	7214.6	7423.3	7472.7	7809.3	8240.1	8751.8
20°	6667.1	6669.3	6687.2	6812.9	6970.0	7205.6	7448.0	7508.6	7896.8	8356.8	8904.4
22.5°	6761.3	6770.3	6779.3	6864.5	6987.9	7219.1	7513.1	7593.8	8085.3	8552.0	9104.1
25°	6945.3	6947.6	6956.5	7026.1	7082.2	7257.2	7620.8	7741.9	8379.3	8837.0	9355.4
27.5°	7192.2	7223.6	7232.5	7277.4	7277.4	7351.5	7789.1	7964.1	8776.4	9247.7	9676.3
30°	7537.7	7549.0	7564.7	7614.0	7560.2	7528.8	8035.9	8260.3	9236.5	9743.6	10062.3
32.5°	7840.7	7865.4	7950.6	8031.4	7934.9	7836.2	8399.5	8664.2	9678.6	10259.8	10472.9
35°	8098.7	8159.3	8323.2	8502.7	8435.4	8336.6	8881.9	9157.9	10042.1	10630.0	10836.5
37.5°	8410.7	8457.8	8682.2	8973.9	9034.5	8987.4	9469.9	9667.3	10284.4	10724.3	11034.0
40°	8727.1	8798.9	9088.4	9492.3	9723.4	9757.1	10012.9	10145.3	10367.5	10540.3	10995.8
42.5°	9050.2	9173.6	9570.8	10042.1	10452.7	10529.0	10470.7	10526.8	10340.5	10286.7	10818.5
45°	9445.2	9591.0	10039.8	10641.2	11182.1	11301.0	10919.5	10867.9	10336.1	10190.2	10708.6
47.5°	9911.9	10057.8	10486.4	11186.6	11877.7	11965.2	11379.5	11285.3	10493.1	10338.3	10856.7
50°	10324.8	10425.8	10809.6	11592.7	12526.2	12577.9	11886.7	11772.2	10883.6	10749.0	11318.9
52.5°	9905.2	9894.0	10297.9	11262.8	12862.9	13484.5	12667.6	12557.7	11637.6	11431.2	12034.8
55°	8403.9	8276.0	8637.3	9586.5	11922.6	14290.1	14067.9	13848.0	12642.9	12117.8	12705.8
57.5°	6144.2	6108.3	6195.8	7086.7	9550.6	13042.4	14925.1	14904.9	13511.4	12746.2	13374.5
60°	4804.5	4750.6	4517.3	4541.9	6510.0	10188.0	12952.6	13547.3	14049.9	13123.2	13841.3
62.5°	4265.9	4225.5	4104.4	3770.0	3877.7	6830.9	9494.5	10039.8	12277.2	11590.5	11888.9
65°	3532.1	3520.9	3621.9	3608.4	3249.4	3772.2	5358.8	5908.6	7719.5	7816.0	7719.5
67.5°	2567.2	2547.0	2802.8	3307.7	3128.2	2847.7	2986.8	3177.6	3958.5	3554.6	3200.0
70°	1669.6	1640.4	1788.5	2389.9	2800.6	2481.9	2152.0	2120.6	2176.7	1353.2	1463.1
72.5°	1119.8	1086.1	1083.9	1315.0	1692.0	1671.8	1667.3	1651.6	1474.3	1068.2	1184.9
75°	623.8	596.9	590.2	567.7	605.9	617.1	657.5	679.9	736.0	810.1	897.6
77.5°	105.5	103.2	130.2	166.1	228.9	294.0	363.5	383.7	473.5	561.0	617.1
80°	58.3	60.6	78.5	96.5	127.9	175.0	224.4	237.9	291.7	338.9	383.7
82.5°	31.4	31.4	40.4	51.6	69.6	92.0	121.2	132.4	168.3	197.5	228.9
85°	11.2	11.2	15.7	20.2	29.2	38.1	47.1	53.9	74.1	101.0	114.4
87.5°	0.0	0.0	0.0	0.0	2.2	4.5	9.0	9.0	11.2	20.2	29.2
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°	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9	8513.9
2.5°	8558.8	8498.2	8581.2	8619.4	8632.8	8641.8	8583.5	8543.1	8529.6	8487.0	8462.3
5°	8590.2	8549.8	8628.3	8628.3	8572.2	8513.9	8395.0	8311.9	8253.6	8184.0	8172.8
7.5°	8644.1	8614.9	8657.5	8570.0	8428.6	8271.5	8065.1	7903.5	7773.4	7688.1	7690.3
10°	8715.9	8680.0	8646.3	8451.1	8193.0	7903.5	7587.1	7351.5	7136.1	7037.3	6983.5
12.5°	8763.0	8711.4	8570.0	8246.9	7867.6	7479.4	7032.8	6682.8	6370.8	6229.5	6218.2
15°	8821.3	8727.1	8444.3	7982.1	7454.7	6925.1	6350.6	5863.7	5441.8	5221.9	5210.7
17.5°	8897.6	8742.8	8294.0	7679.1	7019.4	6238.4	5515.9	4903.2	4454.4	4283.9	4313.0
20°	9005.3	8760.7	8123.4	7342.5	6478.6	5457.5	4557.7	3994.4	3821.6	3810.4	3787.9
22.5°	9126.5	8772.0	7934.9	6965.5	5823.3	4625.0	3765.5	3525.4	3523.1	3579.2	3592.7
25°	9263.4	8780.9	7721.7	6525.7	5114.2	3794.7	3330.2	3258.3	3314.5	3419.9	3433.4
27.5°	9438.4	8798.9	7463.7	6043.2	4360.2	3278.5	3090.0	3072.1	3139.4	3238.2	3233.7
30°	9696.5	8864.0	7189.9	5488.9	3586.0	3033.9	2944.2	2946.4	2973.4	3020.5	3027.2
32.5°	9959.1	8964.9	6922.9	4865.1	3141.7	2894.8	2854.4	2849.9	2849.9	2870.1	2874.6
35°	10208.1	9079.4	6633.4	4214.3	2926.2	2814.0	2787.1	2773.6	2766.9	2762.4	2755.7
37.5°	10347.3	9135.5	6350.6	3572.5	2811.8	2760.2	2733.2	2715.3	2690.6	2672.7	2668.2
40°	10286.7	9070.4	6023.0	3092.3	2742.2	2708.6	2677.1	2652.5	2618.8	2603.1	2594.1
42.5°	10084.7	8868.5	5666.2	2865.6	2686.1	2652.5	2614.3	2573.9	2551.5	2538.0	2535.8
45°	9871.5	8623.9	5235.4	2733.2	2632.3	2591.9	2547.0	2502.1	2477.4	2470.7	2468.4
47.5°	9864.8	8502.7	4777.6	2627.8	2567.2	2526.8	2470.7	2425.8	2398.9	2389.9	2380.9
50°	10161.0	8626.1	4261.4	2535.8	2499.9	2457.2	2394.4	2345.0	2311.4	2300.1	2297.9
52.5°	10775.9	9090.6	3799.2	2443.8	2410.1	2360.7	2309.1	2259.8	2219.4	2199.2	2196.9
55°	11440.1	9680.8	3511.9	2349.5	2304.6	2262.0	2214.9	2161.0	2116.1	2084.7	2080.2
57.5°	12126.8	10324.8	3424.4	2230.6	2196.9	2167.7	2111.6	2053.3	2001.7	1972.5	1965.8
60°	12692.3	10879.1	3588.2	2104.9	2087.0	2048.8	1997.2	1941.1	1905.2	1882.8	1878.3
62.5°	10625.5	8857.2	2897.1	1968.0	1968.0	1927.6	1869.3	1828.9	1804.2	1788.5	1784.0
65°	6743.3	5484.4	1977.0	1831.1	1828.9	1775.0	1725.7	1698.7	1687.5	1662.8	1658.3
67.5°	2937.5	2506.6	1689.8	1692.0	1683.0	1624.7	1575.3	1555.1	1532.7	1505.8	1503.5
70°	1523.7	1552.9	1512.5	1537.2	1521.5	1451.9	1404.8	1373.4	1326.2	1299.3	1301.5
72.5°	1229.7	1261.2	1306.0	1344.2	1310.5	1254.4	1180.4	1142.2	1081.6	1052.5	1054.7
75°	938.0	971.7	1014.3	1054.7	1027.8	958.2	911.1	872.9	803.4	769.7	776.4
77.5°	646.3	664.2	715.8	713.6	704.6	684.4	614.9	570.0	498.2	457.8	462.3
80°	401.7	412.9	437.6	448.8	444.3	417.4	361.3	327.6	285.0	260.3	262.6
82.5°	242.4	249.1	271.5	273.8	271.5	251.3	208.7	184.0	157.1	143.6	143.6
85°	123.4	127.9	141.4	141.4	127.9	107.7	96.5	85.3	69.6	62.8	62.8
87.5°	33.7	33.7	42.6	35.9	29.2	26.9	13.5	11.2	4.5	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)