

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: P640813

Luminaire Tested: GWS-SA5E-750-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

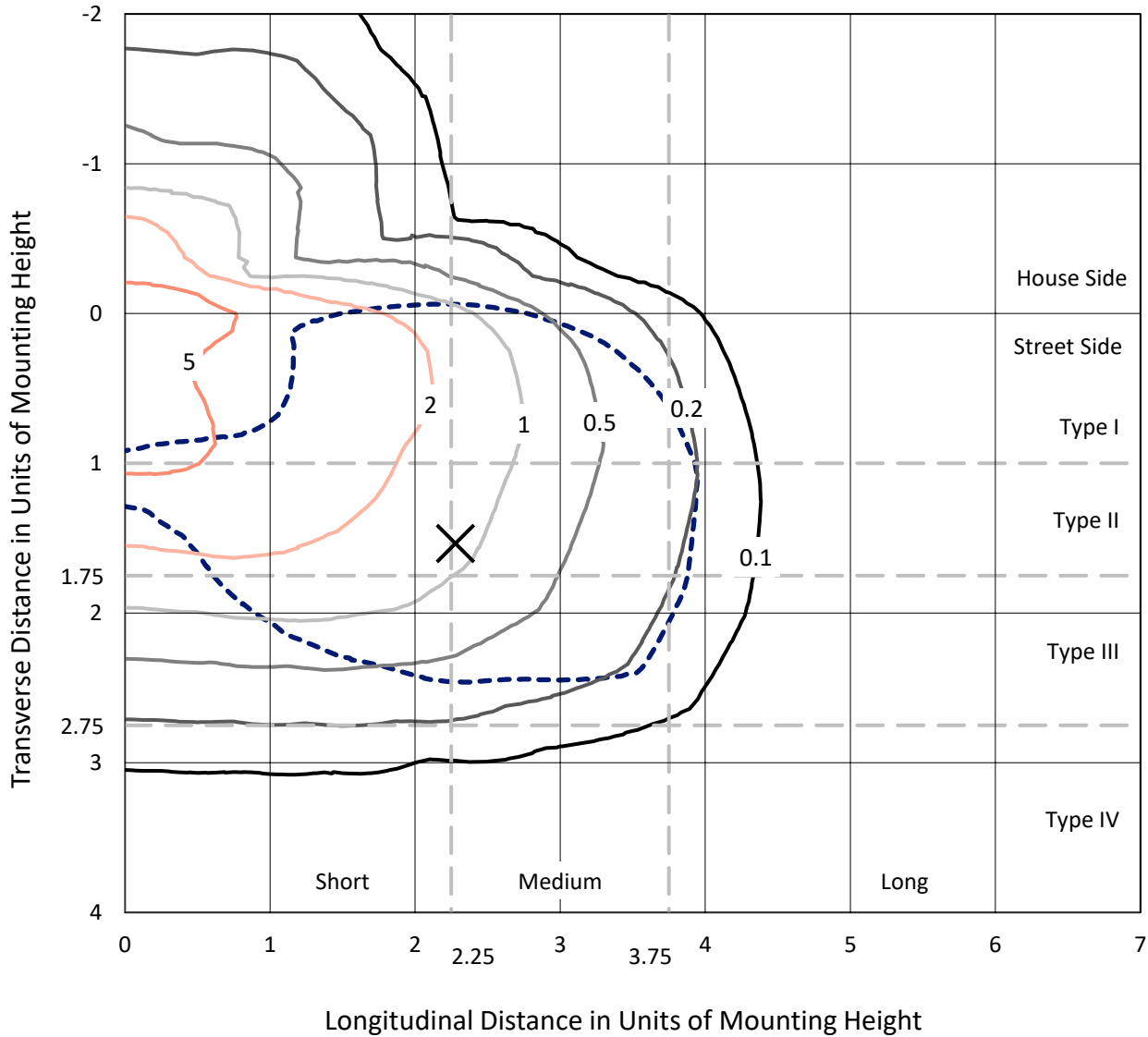
Lumens per Lamp: N/A  
Luminaire Lumens: 39038.2 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

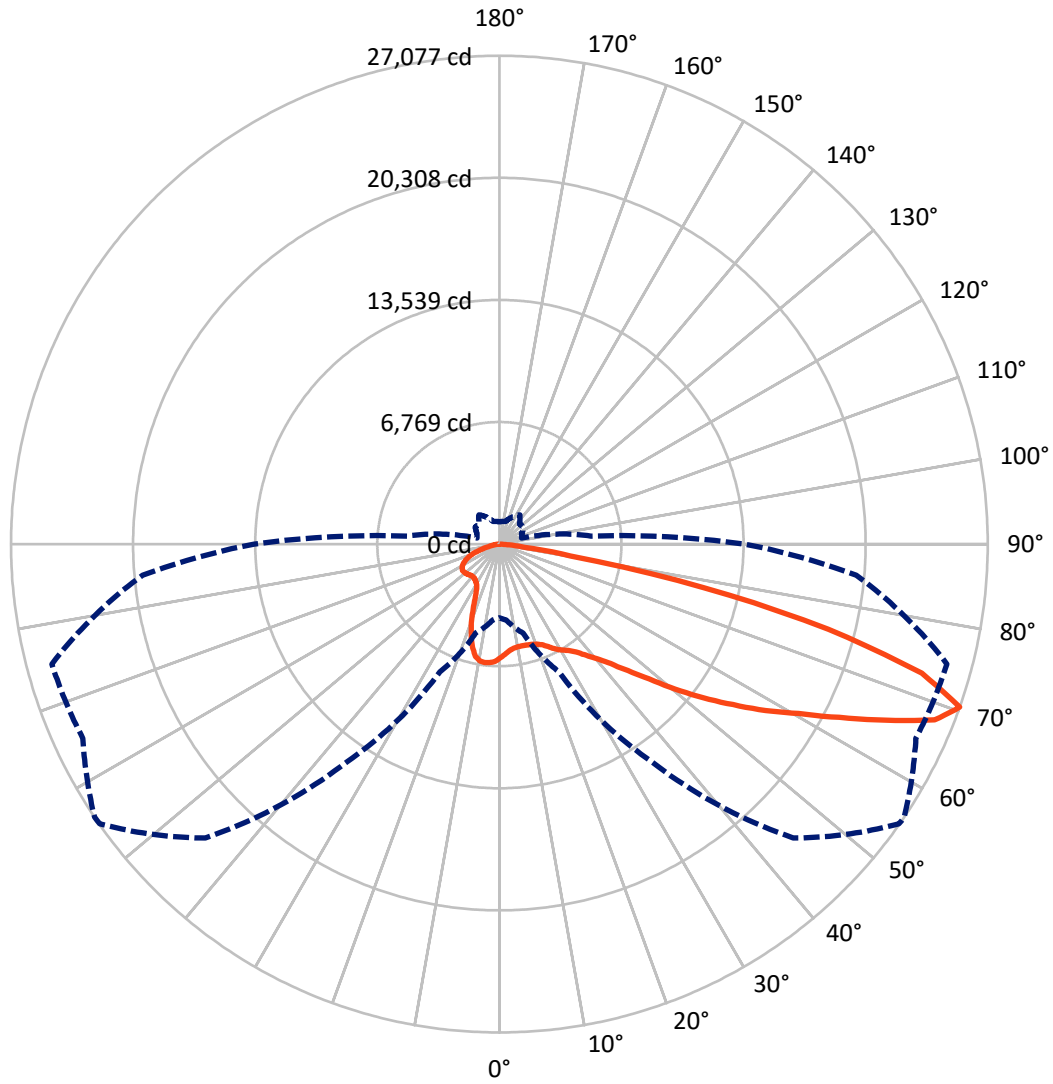
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7505.2	0.0	7505.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	31533.0	0.0	31533.0
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	39038.2	0.0	39038.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.1	1.5
10°-20°	1580.0	4.0
20°-30°	2612.1	6.7
30°-40°	3905.5	10.0
40°-50°	5811.9	14.9
50°-60°	8262.9	21.2
60°-70°	10233.8	26.2
70°-80°	5650.8	14.5
80°-90°	398.0	1.0
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°	39038.2	100.0
0°-180°	39038.2	100.0

**Coefficient of Utilization**



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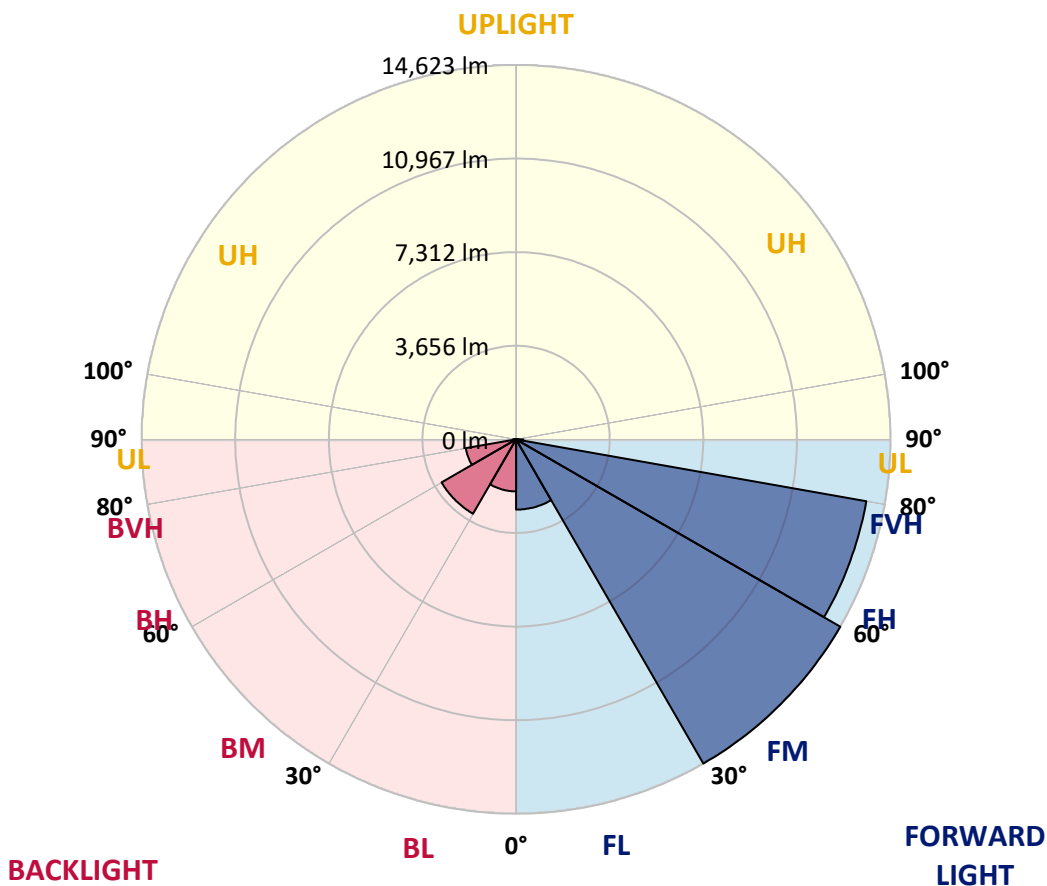
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2743.6	7.0			
FM (30°-60°)	14623.1	37.5			
FH (60°-80°)	13889.8	35.6			G5
FVH (80°-90°)	276.6	0.7			G3/500
BL (0°-30°)	2031.7	5.2	B3/2500		
BM (30°-60°)	3357.2	8.6	B3/5000		
BH (60°-80°)	1994.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	121.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4
2.5°	5896.7	5863.7	5902.2	5921.5	5971.0	6042.6	6105.9	6108.7	6141.7	6221.5	6298.6
5°	5629.7	5613.1	5624.2	5682.0	5734.3	5825.1	5921.5	5929.7	6023.3	6180.2	6334.4
7.5°	5423.2	5401.2	5442.5	5516.8	5582.9	5684.7	5811.4	5822.4	5954.5	6191.3	6428.0
10°	5125.9	5109.4	5186.4	5285.5	5428.7	5596.6	5764.6	5778.3	5951.7	6262.8	6593.2
12.5°	4996.5	4996.5	5029.5	5123.1	5280.0	5503.0	5756.3	5778.3	5995.8	6372.9	6805.1
15°	5197.5	5211.2	5183.7	5178.2	5241.5	5453.5	5767.3	5800.3	6078.4	6485.8	7014.4
17.5°	5602.1	5615.9	5544.3	5431.5	5368.1	5500.3	5808.6	5844.4	6166.5	6609.7	7240.1
20°	6169.2	6185.7	6028.8	5855.4	5637.9	5635.2	5888.4	5921.5	6279.3	6744.6	7479.6
22.5°	6832.7	6843.7	6645.5	6370.2	6037.1	5885.7	6026.1	6059.1	6425.2	6931.8	7738.4
25°	7600.7	7633.8	7394.3	6995.1	6543.6	6229.8	6254.6	6293.1	6686.8	7182.3	8043.9
27.5°	8421.1	8462.4	8187.1	7746.6	7124.5	6609.7	6549.1	6582.2	6964.8	7336.5	8206.4
30°	9260.7	9291.0	9015.7	8511.9	7749.4	7039.1	6796.9	6816.2	7085.9	7410.8	8371.5
32.5°	10194.0	10169.2	9904.9	9324.0	8470.6	7553.9	7028.1	7022.6	7220.8	7559.4	8608.3
35°	11069.4	11105.2	10824.4	10182.9	9263.5	8189.8	7375.0	7353.0	7507.1	7801.7	8941.4
37.5°	12129.2	12118.2	11782.4	11088.6	10059.1	8798.2	7862.3	7823.7	7878.8	8178.8	9406.6
40°	12886.3	12963.4	12745.9	12099.0	10989.5	9547.0	8432.1	8346.8	8360.5	8644.1	10028.8
42.5°	13505.7	13577.3	13599.3	13186.3	12054.9	10472.0	9142.3	9057.0	9065.3	9467.2	10794.1
45°	13981.9	14078.3	14389.4	14268.2	13255.2	11540.1	10103.1	10015.0	10020.5	10466.5	11719.1
47.5°	14177.4	14282.0	14912.4	15201.5	14529.8	12817.5	11297.9	11168.5	11187.7	11680.5	12776.2
50°	14114.1	14254.5	15107.9	15920.0	15597.9	14116.8	12726.6	12635.8	12561.4	13277.2	13924.1
52.5°	13569.0	13723.2	15088.6	16376.9	16470.5	15344.6	14202.2	14149.9	14133.3	14973.0	15207.0
55°	11964.1	12222.8	14425.1	16498.1	17153.3	16500.8	15801.6	15713.5	15798.8	16789.9	16503.6
57.5°	11074.9	11267.6	13125.8	16363.2	17712.1	17602.0	17398.3	17406.5	17502.9	18763.7	18075.5
60°	10568.3	10794.1	12404.5	15994.3	18248.9	18939.9	19069.3	19069.3	19242.7	20891.7	19672.2
62.5°	9896.6	10125.1	11730.1	15284.0	18744.4	20514.5	21169.7	21161.5	21230.3	23173.8	21233.0
65°	8534.0	8745.9	10375.6	14163.6	18986.7	22248.9	23556.5	23531.7	23394.1	25205.5	22265.4
67.5°	6196.8	6397.7	7947.6	12032.9	18114.0	23647.3	26014.8	26025.8	25202.7	26485.6	22320.4
70°	4085.3	4222.9	5109.4	7815.5	14730.7	23044.4	27044.4	27077.4	25480.8	25687.2	19864.9
72.5°	2549.2	2645.5	3190.6	4660.6	8704.6	18240.7	24401.6	24492.5	22923.3	22573.7	16321.9
75°	1693.0	1759.1	2122.5	2717.1	4027.5	9871.9	18549.0	18840.8	18372.8	17695.6	11372.2
77.5°	1018.6	1073.6	1351.7	1726.1	1783.9	3856.8	10827.1	11581.4	11647.5	9238.7	4762.5
80°	465.2	528.6	746.0	985.5	949.7	1343.4	3818.3	3994.4	4712.9	2934.6	1503.1
82.5°	275.3	302.8	495.5	490.0	404.7	652.4	1373.7	1409.5	1197.5	1073.6	641.4
85°	110.1	129.4	209.2	184.4	148.7	212.0	517.5	542.3	520.3	468.0	236.7
87.5°	0.0	0.0	0.0	0.0	2.8	5.5	46.8	49.6	71.6	129.4	71.6
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°	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4	6301.4
2.5°	6348.2	6331.6	6414.2	6477.6	6505.1	6532.6	6507.8	6499.6	6499.6	6444.5	6417.0
5°	6417.0	6425.2	6538.1	6590.4	6590.4	6568.4	6502.3	6455.5	6439.0	6367.4	6348.2
7.5°	6546.4	6582.2	6686.8	6684.0	6606.9	6485.8	6320.6	6194.0	6078.4	6028.8	5998.5
10°	6758.3	6805.1	6876.7	6761.1	6546.4	6227.0	5877.4	5602.1	5437.0	5304.8	5304.8
12.5°	7000.6	7044.6	7030.9	6763.9	6320.6	5723.3	5219.5	4902.9	4671.7	4550.5	4550.5
15°	7242.9	7278.6	7130.0	6637.2	5849.9	5054.3	4503.7	4123.8	3922.9	3810.0	3810.0
17.5°	7487.9	7485.1	7171.3	6345.4	5236.0	4313.8	3774.2	3479.7	3410.8	3391.6	3388.8
20°	7724.6	7661.3	7119.0	5858.2	4523.0	3567.7	3226.4	3245.7	3347.5	3391.6	3397.1
22.5°	7991.6	7834.7	6964.8	5236.0	3713.6	3050.2	3072.2	3231.9	3380.5	3446.6	3454.9
25°	8264.2	7983.4	6706.0	4506.5	3036.4	2860.3	3030.9	3209.9	3377.8	3463.1	3471.4
27.5°	8374.3	7983.4	6265.6	3661.3	2675.8	2780.4	2967.6	3141.0	3317.2	3416.3	3435.6
30°	8465.1	7914.6	5648.9	2898.8	2527.2	2703.3	2865.8	3025.4	3198.9	3320.0	3342.0
32.5°	8591.8	7854.0	4902.9	2436.3	2458.3	2629.0	2741.9	2876.8	3033.7	3113.5	3105.3
35°	8740.4	7760.4	4002.7	2216.1	2400.5	2565.7	2645.5	2725.4	2653.8	2651.0	2659.3
37.5°	8952.4	7677.8	3218.1	2117.0	2362.0	2521.6	2587.7	2417.0	2317.9	2276.6	2260.1
40°	9258.0	7644.8	2538.2	2059.2	2356.5	2518.9	2472.1	2207.8	2072.9	1929.8	1927.0
42.5°	9643.4	7620.0	2097.7	2031.6	2375.7	2582.2	2312.4	2070.2	1792.1	1728.8	1723.3
45°	10138.9	7581.5	1877.5	2026.1	2422.5	2631.8	2295.9	1880.2	1690.3	1662.7	1662.7
47.5°	10736.3	7520.9	1778.4	2026.1	2474.8	2609.7	2246.4	1838.9	1643.5	1673.8	1693.0
50°	11421.7	7443.8	1726.1	2020.6	2527.2	2609.7	2141.7	1830.7	1632.5	1789.4	1852.7
52.5°	12154.0	7355.7	1690.3	1998.6	2562.9	2612.5	2147.3	1858.2	1643.5	1816.9	1869.2
55°	12963.4	7342.0	1640.7	1951.8	2574.0	2540.9	2161.0	1918.8	1660.0	1646.2	1649.0
57.5°	13984.7	7507.1	1604.9	1883.0	2529.9	2395.0	2188.5	1962.8	1640.7	1643.5	1662.7
60°	15052.8	7818.2	1635.2	1816.9	2439.1	2257.4	2207.8	1940.8	1547.1	1503.1	1508.6
62.5°	15961.3	8055.0	1660.0	1786.6	2306.9	2136.2	2188.5	1891.2	1494.8	1483.8	1508.6
65°	16341.2	7859.5	1599.4	1723.3	2114.2	1987.6	2147.3	1827.9	1450.8	1409.5	1412.2
67.5°	15920.0	6942.8	1481.1	1582.9	1896.7	1797.6	2081.2	1745.3	1390.2	1340.7	1329.6
70°	13599.3	5101.1	1277.3	1359.9	1632.5	1574.7	1979.3	1638.0	1293.9	1258.1	1233.3
72.5°	10959.3	3611.8	1059.9	1081.9	1280.1	1326.9	1803.1	1503.1	1183.7	1081.9	1046.1
75°	7628.3	2268.4	883.7	861.7	925.0	1013.1	1406.7	1247.1	1021.3	914.0	880.9
77.5°	3281.4	1164.5	691.0	680.0	616.6	702.0	1079.1	1040.6	856.1	732.3	713.0
80°	1098.4	674.5	498.3	479.0	410.2	492.8	759.8	831.4	671.7	542.3	509.3
82.5°	550.6	390.9	316.6	286.3	275.3	311.1	448.7	517.5	465.2	374.4	316.6
85°	269.8	223.0	173.4	170.7	143.2	134.9	187.2	220.2	209.2	154.2	145.9
87.5°	99.1	88.1	55.1	44.0	27.5	19.3	11.0	11.0	8.3	8.3	8.3
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)