

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: P638330

Luminaire Tested: GWS-SA4E-750-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638330  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-750-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

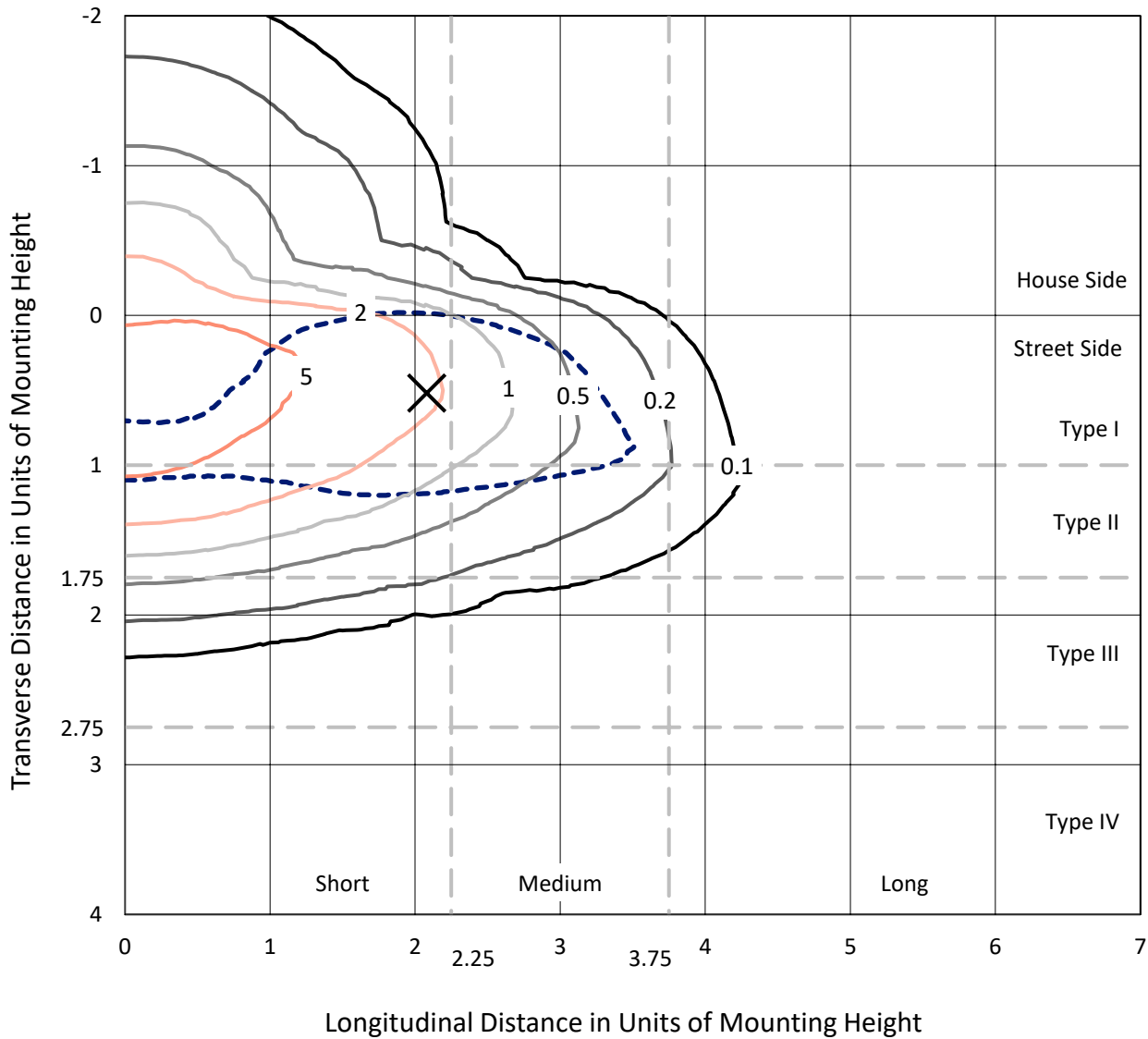
Lumens per Lamp: N/A  
Luminaire Lumens: 31919.9 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

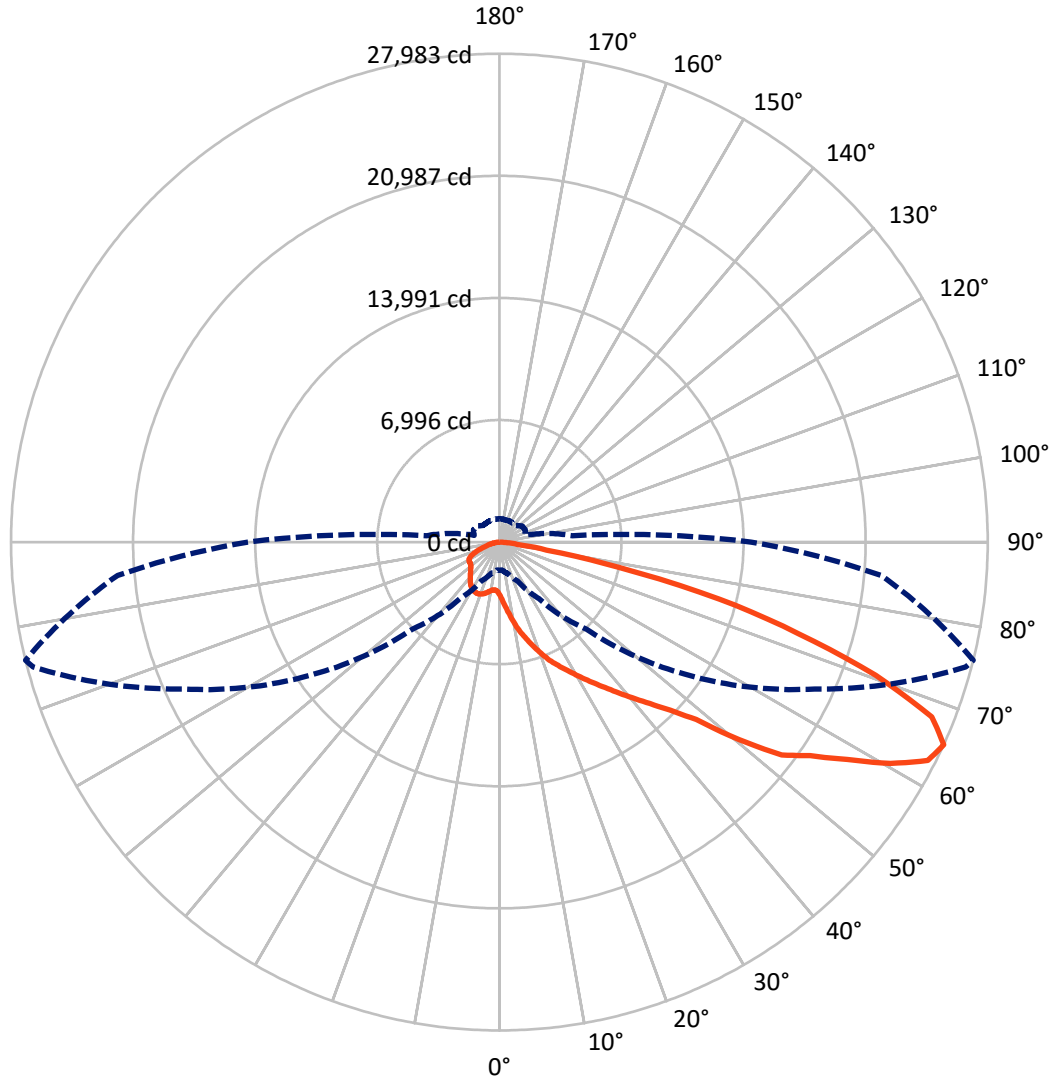
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5335.4	0.0	5335.4
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	26584.5	0.0	26584.5
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	31919.9	0.0	31919.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.1	1.1
10°-20°	1367.8	4.3
20°-30°	2665.7	8.4
30°-40°	4458.2	14.0
40°-50°	6383.3	20.0
50°-60°	7556.9	23.7
60°-70°	6283.6	19.7
70°-80°	2571.4	8.1
80°-90°	273.8	0.9
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°	31919.9	100.0
0°-180°	31919.9	100.0

**Coefficient of Utilization**



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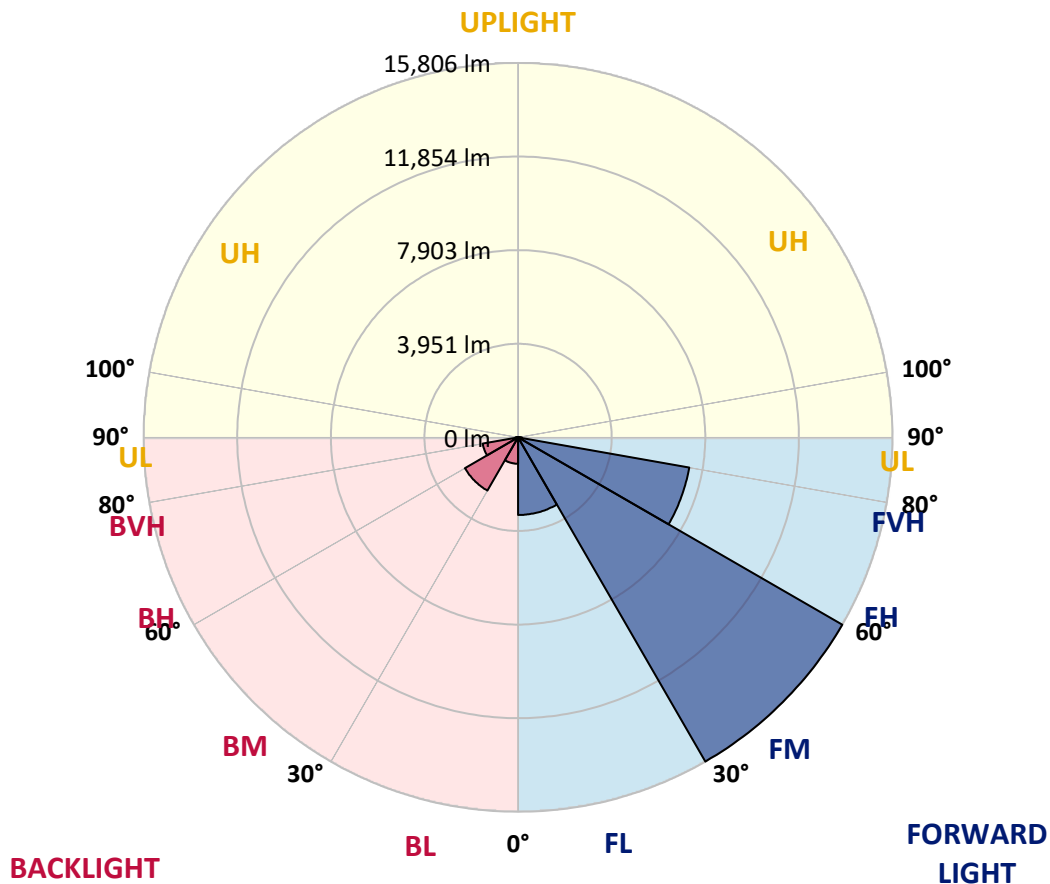
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3276.5	10.3			
FM (30°-60°)	15805.5	49.5			
FH (60°-80°)	7339.2	23.0			G3/7500
FVH (80°-90°)	163.3	0.5			G2/225
BL (0°-30°)	1116.2	3.5	B3/2500		
BM (30°-60°)	2592.9	8.1	B3/5000		
BH (60°-80°)	1515.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	110.5	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7
2.5°	4236.7	4252.4	4200.8	4182.9	4061.7	3897.9	3761.0	3554.5	3363.8	3334.6	3164.1
5°	5381.2	5313.8	5255.5	5217.3	5049.0	4862.8	4573.3	4185.1	3778.9	3729.6	3361.5
7.5°	6061.1	6049.9	5978.1	5955.6	5825.5	5639.2	5340.8	4858.3	4268.1	4187.3	3628.6
10°	6606.4	6599.7	6563.8	6584.0	6465.0	6283.3	5993.8	5495.6	4804.4	4723.7	3927.0
12.5°	7082.1	7093.4	7086.6	7160.7	7100.1	6958.7	6658.0	6110.5	5340.8	5253.3	4290.6
15°	7430.0	7438.9	7472.6	7634.2	7667.8	7638.6	7333.5	6714.1	5870.4	5744.7	4665.3
17.5°	7528.7	7546.6	7627.4	7887.7	8069.5	8190.7	7964.0	7329.0	6391.0	6254.1	5046.8
20°	7661.1	7681.3	7762.1	8033.6	8300.6	8576.6	8536.3	7952.8	6916.1	6803.9	5432.8
22.5°	8273.7	8258.0	8222.1	8352.2	8543.0	8886.3	8987.3	8552.0	7459.1	7351.4	5859.1
25°	9454.1	9424.9	9196.0	9077.1	9014.2	9222.9	9402.4	9097.3	7988.7	7827.1	6256.3
27.5°	10755.6	10739.9	10448.2	10165.4	9779.4	9689.7	9795.2	9573.0	8502.6	8338.8	6601.9
30°	11987.6	11940.4	11635.2	11280.7	10764.6	10378.6	10223.8	10039.8	9065.8	8895.3	7005.8
32.5°	13089.4	13028.8	12669.7	12277.0	11736.2	11280.7	10818.4	10535.7	9703.1	9505.7	7418.7
35°	13993.7	13933.1	13565.1	13147.7	12553.1	12216.5	11583.6	11074.2	10351.7	10152.0	7905.7
37.5°	14693.9	14637.8	14254.0	13843.4	13325.0	13058.0	12508.2	11680.1	11098.9	10890.2	8421.8
40°	15086.6	15046.2	14738.7	14413.3	13978.0	13746.9	13500.0	12445.3	11935.9	11727.3	9029.9
42.5°	15205.5	15178.6	14963.1	14794.8	14500.9	14325.8	14467.2	13345.2	12829.1	12647.3	9714.4
45°	14907.0	14907.0	14844.2	14929.5	14942.9	14940.7	15436.6	14361.7	13926.4	13726.7	10679.3
47.5°	14144.1	14193.4	14285.4	14705.1	15147.1	15517.4	16569.9	15717.1	15337.9	15174.1	12045.9
50°	12748.3	12882.9	13197.1	14016.2	14956.4	15898.9	17642.5	17721.0	18082.3	17792.8	14056.5
52.5°	10704.0	10683.8	11484.9	12651.8	14085.7	15914.6	18232.7	19489.3	20461.0	20261.3	15551.1
55°	8507.1	8473.4	9220.7	10829.6	12750.5	15313.2	18587.2	20299.4	21780.5	21600.9	16895.2
57.5°	6514.4	6471.8	7136.0	8587.9	10865.6	14036.4	18519.9	21264.3	23595.9	23503.9	18721.9
60°	4483.6	4431.9	5053.5	6323.7	8635.0	12084.1	17774.9	21760.3	25721.0	25752.4	20676.4
62.5°	2692.8	2663.7	3114.7	4099.8	6211.5	9665.0	16031.3	21459.6	27413.0	27554.3	21933.1
65°	1624.7	1604.5	1869.3	2446.0	3940.5	7053.0	13342.9	19922.4	27657.6	27982.9	21962.2
67.5°	1182.6	1184.8	1261.1	1490.0	2297.9	4555.4	10012.8	17166.8	26383.0	26719.6	20577.7
70°	1027.8	1032.2	1072.6	1124.3	1389.0	2607.6	6509.9	13551.6	22615.2	22875.6	17258.8
72.5°	913.3	913.3	940.2	967.2	1086.1	1588.8	3487.2	9472.0	17848.9	17918.5	13172.4
75°	803.4	796.6	810.1	823.6	942.5	1110.8	1696.5	6599.7	13183.6	13022.1	8513.8
77.5°	639.5	632.8	635.1	648.5	756.2	794.4	859.5	4122.3	7430.0	7012.6	3761.0
80°	455.5	451.0	475.7	509.4	558.8	487.0	538.6	1994.9	2946.4	2742.2	1458.6
82.5°	271.5	280.5	318.7	345.6	386.0	305.2	347.8	666.5	1043.5	1016.5	592.4
85°	38.1	40.4	114.4	132.4	166.1	118.9	184.0	300.7	417.4	446.6	208.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.7	53.9	118.9	121.2	51.6
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°	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7
2.5°	3076.6	2971.1	2820.7	2695.1	2589.6	2504.3	2432.5	2378.7	2363.0	2340.5	2340.5
5°	3188.8	2998.0	2728.7	2538.0	2428.0	2363.0	2318.1	2295.6	2284.4	2270.9	2264.2
7.5°	3343.6	3076.6	2713.0	2520.0	2434.8	2394.4	2365.2	2351.7	2342.8	2329.3	2329.3
10°	3556.8	3193.2	2762.4	2582.9	2515.5	2475.2	2441.5	2419.1	2398.9	2378.7	2374.2
12.5°	3787.9	3345.8	2852.2	2668.1	2596.3	2547.0	2499.8	2466.2	2441.5	2416.8	2410.1
15°	4043.7	3502.9	2948.6	2751.2	2661.4	2594.1	2538.0	2486.4	2452.7	2416.8	2412.3
17.5°	4295.1	3662.2	3029.4	2807.3	2692.8	2609.8	2529.0	2461.7	2419.1	2378.7	2367.4
20°	4595.8	3821.6	3085.5	2823.0	2686.1	2576.1	2479.6	2394.4	2347.2	2300.1	2293.4
22.5°	4871.8	3969.7	3112.5	2800.5	2634.5	2504.3	2392.1	2300.1	2248.5	2201.4	2192.4
25°	5138.8	4099.8	3101.2	2746.7	2555.9	2405.6	2288.9	2196.9	2147.5	2098.2	2084.7
27.5°	5396.9	4187.3	3056.4	2663.7	2457.2	2295.6	2183.4	2100.4	2057.8	2015.1	1997.2
30°	5650.4	4268.1	2986.8	2555.9	2331.5	2181.2	2089.2	2030.8	1988.2	1943.3	1929.9
32.5°	5906.3	4326.5	2881.3	2430.3	2203.6	2080.2	2024.1	1981.5	1936.6	1891.7	1878.2
35°	6164.3	4351.2	2753.4	2286.7	2095.9	2015.1	1994.9	1945.6	1885.0	1831.1	1813.2
37.5°	6471.8	4373.6	2594.1	2145.3	2001.7	1983.7	1979.2	1905.2	1833.4	1759.3	1739.1
40°	6842.0	4402.8	2430.3	2017.4	1925.4	1972.5	1954.5	1853.6	1709.9	1638.1	1615.7
42.5°	7295.3	4456.6	2259.7	1900.7	1869.3	1929.9	1909.7	1727.9	1631.4	1591.0	1579.8
45°	7961.8	4654.1	2089.2	1808.7	1826.6	1869.3	1837.9	1653.8	1615.7	1588.8	1575.3
47.5°	9148.9	4957.0	1941.1	1739.1	1793.0	1815.4	1694.2	1633.6	1604.5	1568.6	1552.9
50°	10383.1	5089.4	1822.1	1696.5	1754.8	1766.0	1615.7	1606.7	1586.5	1548.4	1532.7
52.5°	11217.9	5071.5	1750.3	1680.8	1723.4	1680.8	1579.8	1577.5	1564.1	1519.2	1501.3
55°	12160.4	5102.9	1718.9	1685.3	1709.9	1537.2	1534.9	1541.6	1534.9	1485.5	1476.6
57.5°	13432.7	5199.4	1703.2	1701.0	1701.0	1467.6	1492.3	1501.3	1487.8	1465.3	1458.6
60°	14655.7	5206.1	1674.0	1718.9	1694.2	1425.0	1442.9	1451.9	1436.2	1431.7	1429.4
62.5°	15115.7	4883.0	1609.0	1705.5	1667.3	1377.8	1391.3	1395.8	1380.1	1391.3	1389.0
65°	14431.3	4196.3	1501.3	1640.4	1584.3	1335.2	1326.2	1337.4	1310.5	1339.7	1341.9
67.5°	12813.4	3334.6	1337.4	1517.0	1467.6	1288.1	1270.1	1270.1	1225.2	1270.1	1267.9
70°	10331.5	2356.2	1097.3	1319.5	1339.7	1232.0	1223.0	1171.4	1099.6	1166.9	1160.2
72.5°	7831.6	1692.0	863.9	1043.5	1153.4	1153.4	1155.7	1068.2	985.1	1016.5	989.6
75°	4961.5	1191.6	691.2	798.9	904.3	1012.1	1063.7	902.1	828.0	814.6	801.1
77.5°	2235.0	783.2	538.6	612.6	641.8	798.9	971.7	776.4	675.5	646.3	637.3
80°	935.8	487.0	383.7	433.1	394.9	671.0	857.2	603.6	495.9	455.5	426.4
82.5°	410.7	289.5	244.6	233.4	246.8	498.2	639.5	401.7	309.7	419.6	424.1
85°	172.8	152.6	125.7	114.4	101.0	190.7	300.7	157.1	193.0	110.0	89.8
87.5°	40.4	44.9	33.7	22.4	13.5	2.2	0.0	0.0	0.0	0.0	0.0
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)