

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: P638385

Luminaire Tested: GWS-SA4E-760-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638385  
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-760-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

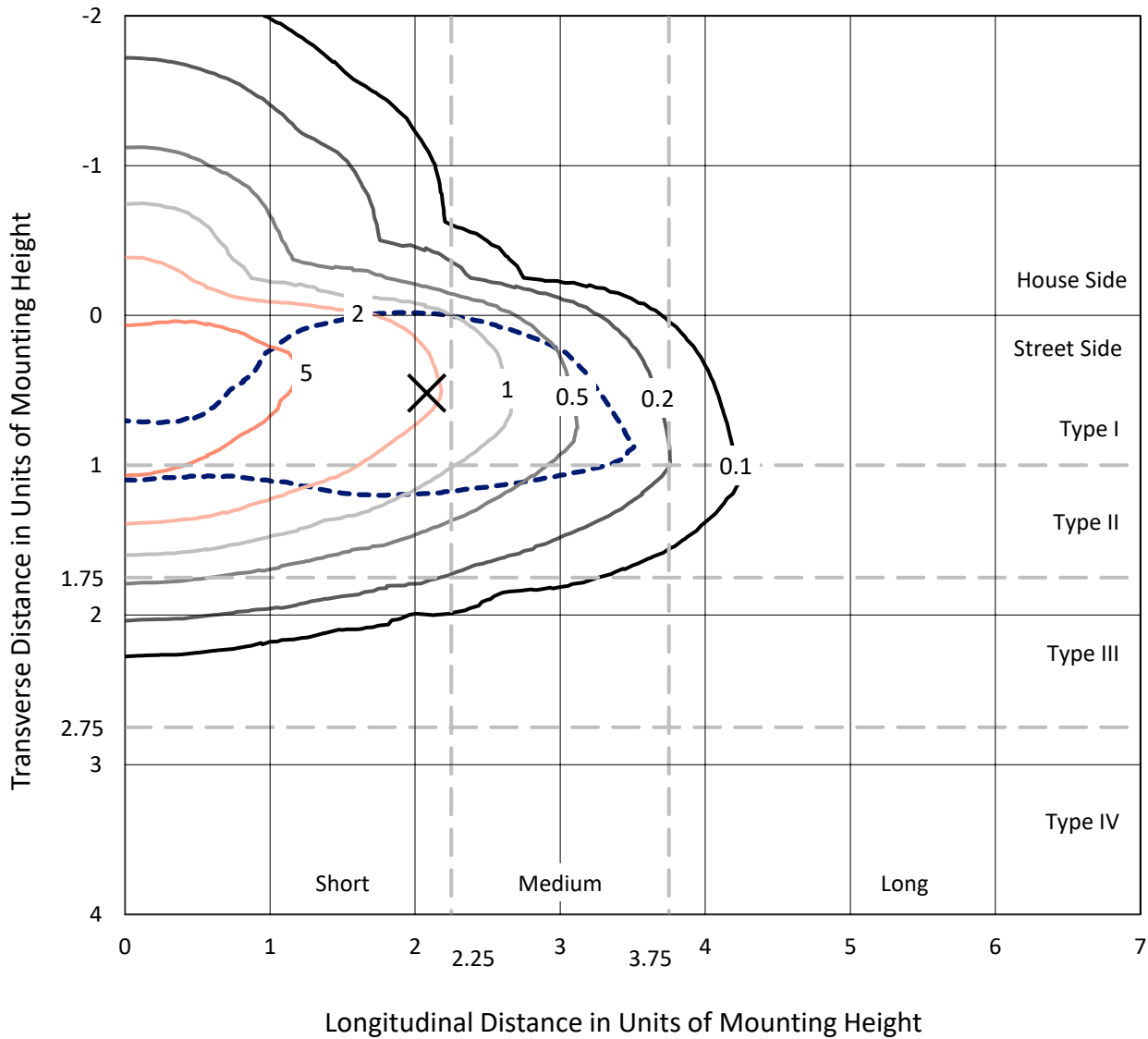
Lumens per Lamp: N/A  
Luminaire Lumens: 31482.4 lumens  
Efficiency: N/A  
Efficacy: 155.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

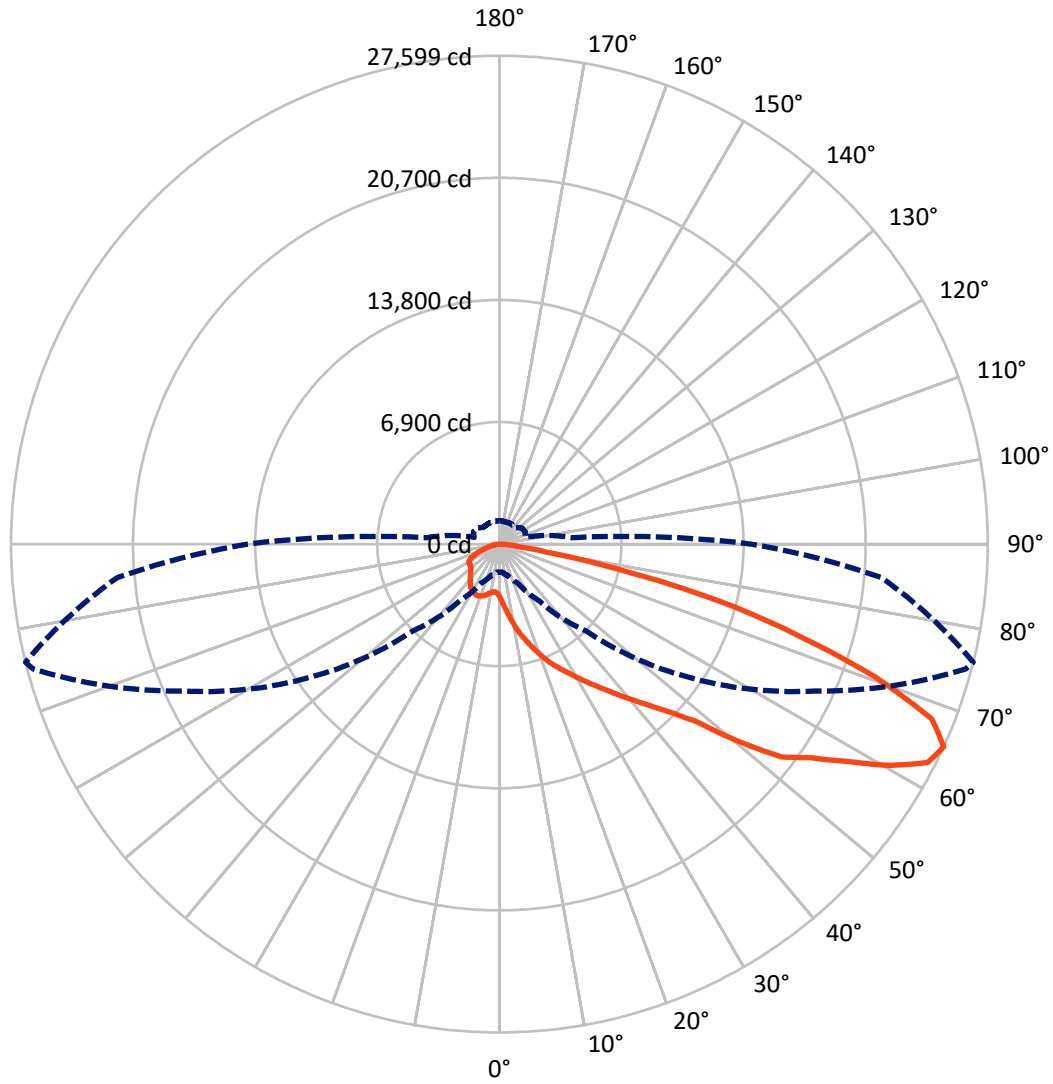
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	5262.3	0.0	5262.3
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	26220.1	0.0	26220.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	31482.4	0.0	31482.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.2	1.1
10°-20°	1349.1	4.3
20°-30°	2629.2	8.4
30°-40°	4397.1	14.0
40°-50°	6295.8	20.0
50°-60°	7453.4	23.7
60°-70°	6197.5	19.7
70°-80°	2536.2	8.1
80°-90°	270.0	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°	31482.4	100.0
0°-180°	31482.4	100.0

**Coefficient of Utilization**



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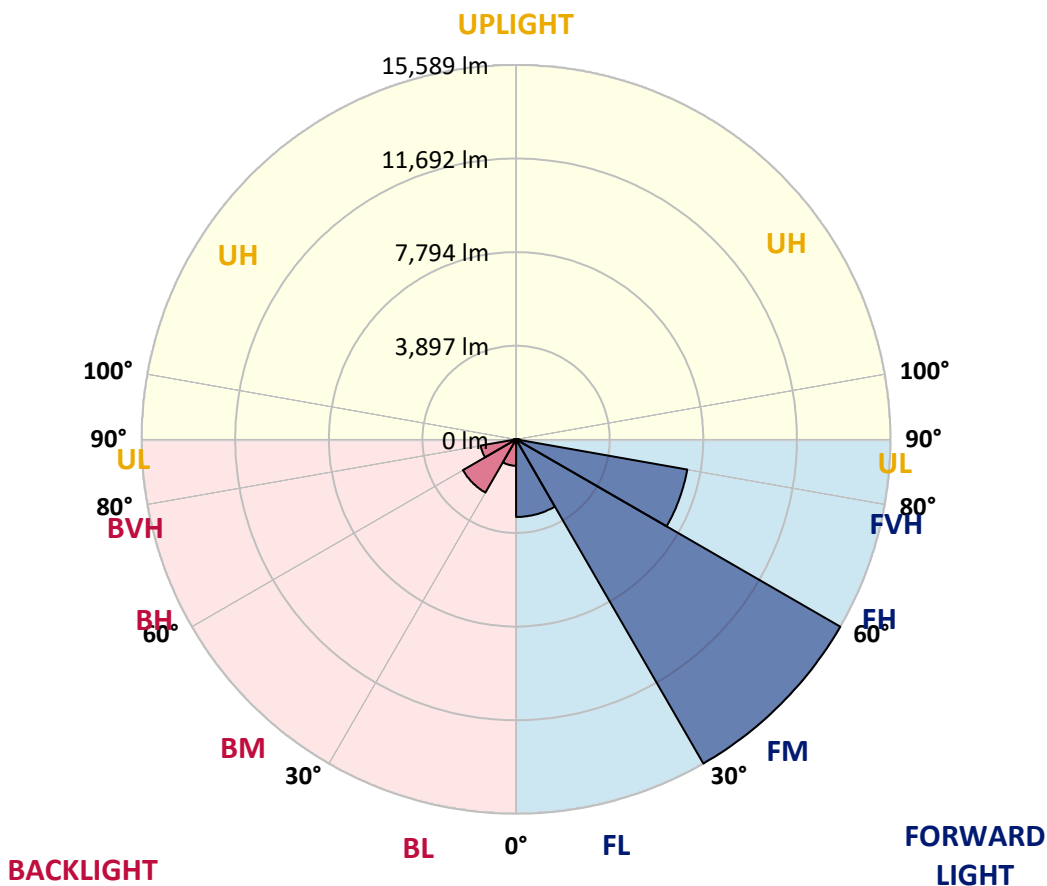
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3231.5	10.3			
FM (30°-60°)	15588.9	49.5			
FH (60°-80°)	7238.6	23.0			G3/7500
FVH (80°-90°)	161.0	0.5			G2/225
BL (0°-30°)	1100.9	3.5	B3/2500		
BM (30°-60°)	2557.4	8.1	B3/5000		
BH (60°-80°)	1495.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	109.0	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°	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3
2.5°	4178.6	4194.1	4143.2	4125.5	4006.0	3844.4	3709.4	3505.8	3317.7	3288.9	3120.7
5°	5307.4	5241.0	5183.5	5145.8	4979.8	4796.1	4510.6	4127.7	3727.1	3678.4	3315.5
7.5°	5978.0	5967.0	5896.1	5874.0	5745.6	5561.9	5267.6	4791.7	4209.6	4130.0	3578.8
10°	6515.8	6509.2	6473.8	6493.7	6376.4	6197.1	5911.6	5420.3	4738.6	4658.9	3873.2
12.5°	6985.1	6996.1	6989.5	7062.5	7002.8	6863.3	6566.8	6026.7	5267.6	5181.3	4231.8
15°	7328.1	7337.0	7370.2	7529.5	7562.7	7534.0	7232.9	6622.1	5789.9	5666.0	4601.4
17.5°	7425.5	7443.2	7522.9	7779.6	7958.9	8078.4	7854.9	7228.5	6303.4	6168.4	4977.6
20°	7556.1	7576.0	7655.7	7923.5	8186.9	8459.1	8419.3	7843.8	6821.3	6710.6	5358.3
22.5°	8160.3	8144.8	8109.4	8237.8	8425.9	8764.5	8864.1	8434.7	7356.9	7250.7	5778.8
25°	9324.5	9295.7	9070.0	8952.7	8890.7	9096.5	9273.6	8972.6	7879.2	7719.9	6170.6
27.5°	10608.2	10592.7	10305.0	10026.1	9645.4	9556.9	9660.9	9441.8	8386.1	8224.5	6511.4
30°	11823.3	11776.8	11475.8	11126.1	10617.0	10236.3	10083.6	9902.1	8941.6	8773.4	6909.8
32.5°	12910.0	12850.2	12496.1	12108.8	11575.4	11126.1	10670.1	10391.3	9570.2	9375.4	7317.1
35°	13801.9	13742.2	13379.2	12967.5	12381.0	12049.0	11424.9	10922.5	10209.8	10012.8	7797.3
37.5°	14492.5	14437.1	14058.7	13653.6	13142.4	12879.0	12336.7	11520.0	10946.8	10741.0	8306.4
40°	14879.8	14839.9	14536.7	14215.8	13786.4	13558.5	13315.0	12274.8	11772.4	11566.5	8906.2
42.5°	14997.1	14970.5	14758.0	14592.1	14302.1	14129.5	14268.9	13162.3	12653.2	12474.0	9581.2
45°	14702.7	14702.7	14640.7	14724.8	14738.1	14735.9	15225.0	14164.9	13735.5	13538.5	10532.9
47.5°	13950.2	13998.9	14089.6	14503.5	14939.5	15304.7	16342.7	15501.7	15127.7	14966.1	11880.8
50°	12573.6	12706.3	13016.2	13824.0	14751.4	15681.0	17400.7	17478.1	17834.5	17549.0	13863.9
52.5°	10557.3	10537.4	11327.5	12478.4	13892.7	15696.5	17982.8	19222.2	20180.5	19983.6	15337.9
55°	8390.5	8357.3	9094.3	10681.2	12575.8	15103.3	18332.5	20021.2	21481.9	21304.9	16663.7
57.5°	6425.1	6383.1	7038.2	8470.2	10716.6	13844.0	18266.1	20972.9	23272.5	23181.7	18465.3
60°	4422.1	4371.2	4984.3	6237.0	8516.6	11918.4	17531.3	21462.0	25368.4	25399.4	20393.0
62.5°	2655.9	2627.1	3072.0	4043.6	6126.3	9532.5	15811.6	21165.4	27037.2	27176.7	21632.4
65°	1602.4	1582.5	1843.6	2412.5	3886.5	6956.3	13160.1	19649.4	27278.5	27599.4	21661.2
67.5°	1166.4	1168.6	1243.9	1469.6	2266.4	4492.9	9875.6	16931.5	26021.3	26353.3	20295.6
70°	1013.7	1018.1	1057.9	1108.8	1370.0	2571.8	6420.7	13365.9	22305.3	22562.0	17022.2
72.5°	900.8	900.8	927.4	953.9	1071.2	1567.0	3439.4	9342.2	17604.3	17672.9	12991.9
75°	792.3	785.7	799.0	812.3	929.6	1095.6	1673.2	6509.2	13002.9	12843.6	8397.1
77.5°	630.8	624.1	626.4	639.6	745.9	783.5	847.7	4065.8	7328.1	6916.5	3709.4
80°	449.3	444.9	469.2	502.4	551.1	480.3	531.2	1967.6	2906.0	2704.6	1438.6
82.5°	267.8	276.7	314.3	340.8	380.7	301.0	343.1	657.3	1029.2	1002.6	584.3
85°	37.6	39.8	112.9	130.6	163.8	117.3	181.5	296.6	411.7	440.4	205.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.5	53.1	117.3	119.5	50.9
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°	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3	2981.3
2.5°	3034.4	2930.4	2782.1	2658.1	2554.1	2470.0	2399.2	2346.1	2330.6	2308.4	2308.4
5°	3145.0	2956.9	2691.3	2503.2	2394.8	2330.6	2286.3	2264.2	2253.1	2239.8	2233.2
7.5°	3297.8	3034.4	2675.8	2485.5	2401.4	2361.6	2332.8	2319.5	2310.6	2297.4	2297.4
10°	3508.0	3149.5	2724.5	2547.5	2481.1	2441.2	2408.0	2385.9	2366.0	2346.1	2341.6
12.5°	3736.0	3300.0	2813.1	2631.6	2560.7	2512.1	2465.6	2432.4	2408.0	2383.7	2377.0
15°	3988.3	3454.9	2908.2	2713.5	2624.9	2558.5	2503.2	2452.3	2419.1	2383.7	2379.3
17.5°	4236.2	3612.0	2987.9	2768.8	2655.9	2574.0	2494.3	2428.0	2385.9	2346.1	2335.0
20°	4532.8	3769.2	3043.2	2784.3	2649.3	2540.8	2445.7	2361.6	2315.1	2268.6	2262.0
22.5°	4805.0	3915.3	3069.8	2762.2	2598.4	2470.0	2359.3	2268.6	2217.7	2171.2	2162.4
25°	5068.4	4043.6	3058.7	2709.0	2520.9	2372.6	2257.5	2166.8	2118.1	2069.4	2056.1
27.5°	5322.9	4130.0	3014.5	2627.1	2423.5	2264.2	2153.5	2071.6	2029.6	1987.5	1969.8
30°	5573.0	4209.6	2945.9	2520.9	2299.6	2151.3	2060.5	2003.0	1961.0	1916.7	1903.4
32.5°	5825.3	4267.2	2841.8	2397.0	2173.4	2051.7	1996.4	1954.3	1910.0	1865.8	1852.5
35°	6079.8	4291.5	2715.7	2255.3	2067.2	1987.5	1967.6	1918.9	1859.1	1806.0	1788.3
37.5°	6383.1	4313.7	2558.5	2115.9	1974.2	1956.5	1952.1	1879.1	1808.2	1735.2	1715.3
40°	6748.2	4342.4	2397.0	1989.7	1899.0	1945.5	1927.8	1828.2	1686.5	1615.7	1593.6
42.5°	7195.3	4395.5	2228.8	1874.6	1843.6	1903.4	1883.5	1704.2	1609.0	1569.2	1558.1
45°	7852.7	4590.3	2060.5	1783.9	1801.6	1843.6	1812.7	1631.2	1593.6	1567.0	1553.7
47.5°	9023.5	4889.1	1914.5	1715.3	1768.4	1790.5	1671.0	1611.3	1582.5	1547.1	1531.6
50°	10240.8	5019.7	1797.2	1673.2	1730.8	1741.8	1593.6	1584.7	1564.8	1527.2	1511.7
52.5°	11064.1	5002.0	1726.3	1657.7	1699.8	1657.7	1558.1	1555.9	1542.6	1498.4	1480.7
55°	11993.7	5033.0	1695.4	1662.2	1686.5	1516.1	1513.9	1520.5	1513.9	1465.2	1456.3
57.5°	13248.6	5128.1	1679.9	1677.7	1677.7	1447.5	1471.8	1480.7	1467.4	1445.3	1438.6
60°	14454.8	5134.8	1651.1	1695.4	1671.0	1405.4	1423.1	1432.0	1416.5	1412.1	1409.8
62.5°	14908.5	4816.1	1586.9	1682.1	1644.5	1358.9	1372.2	1376.7	1361.2	1372.2	1370.0
65°	14233.5	4138.8	1480.7	1617.9	1562.6	1316.9	1308.0	1319.1	1292.5	1321.3	1323.5
67.5°	12637.7	3288.9	1319.1	1496.2	1447.5	1270.4	1252.7	1252.7	1208.4	1252.7	1250.5
70°	10189.9	2323.9	1082.3	1301.4	1321.3	1215.1	1206.2	1155.3	1084.5	1150.9	1144.3
72.5°	7724.3	1668.8	852.1	1029.2	1137.6	1137.6	1139.8	1053.5	971.6	1002.6	976.0
75°	4893.5	1175.2	681.7	787.9	891.9	998.2	1049.1	889.7	816.7	803.4	790.1
77.5°	2204.4	772.4	531.2	604.2	633.0	787.9	958.3	765.8	666.2	637.4	628.6
80°	922.9	480.3	378.5	427.2	389.5	661.8	845.5	595.4	489.1	449.3	420.5
82.5°	405.0	285.5	241.2	230.2	243.5	491.3	630.8	396.2	305.4	413.9	418.3
85°	170.4	150.5	123.9	112.9	99.6	188.1	296.6	154.9	190.3	108.4	88.5
87.5°	39.8	44.3	33.2	22.1	13.3	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)