

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: P638228

Luminaire Tested: GWS-SA4E-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638228  
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-SA4E-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30684.1 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
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

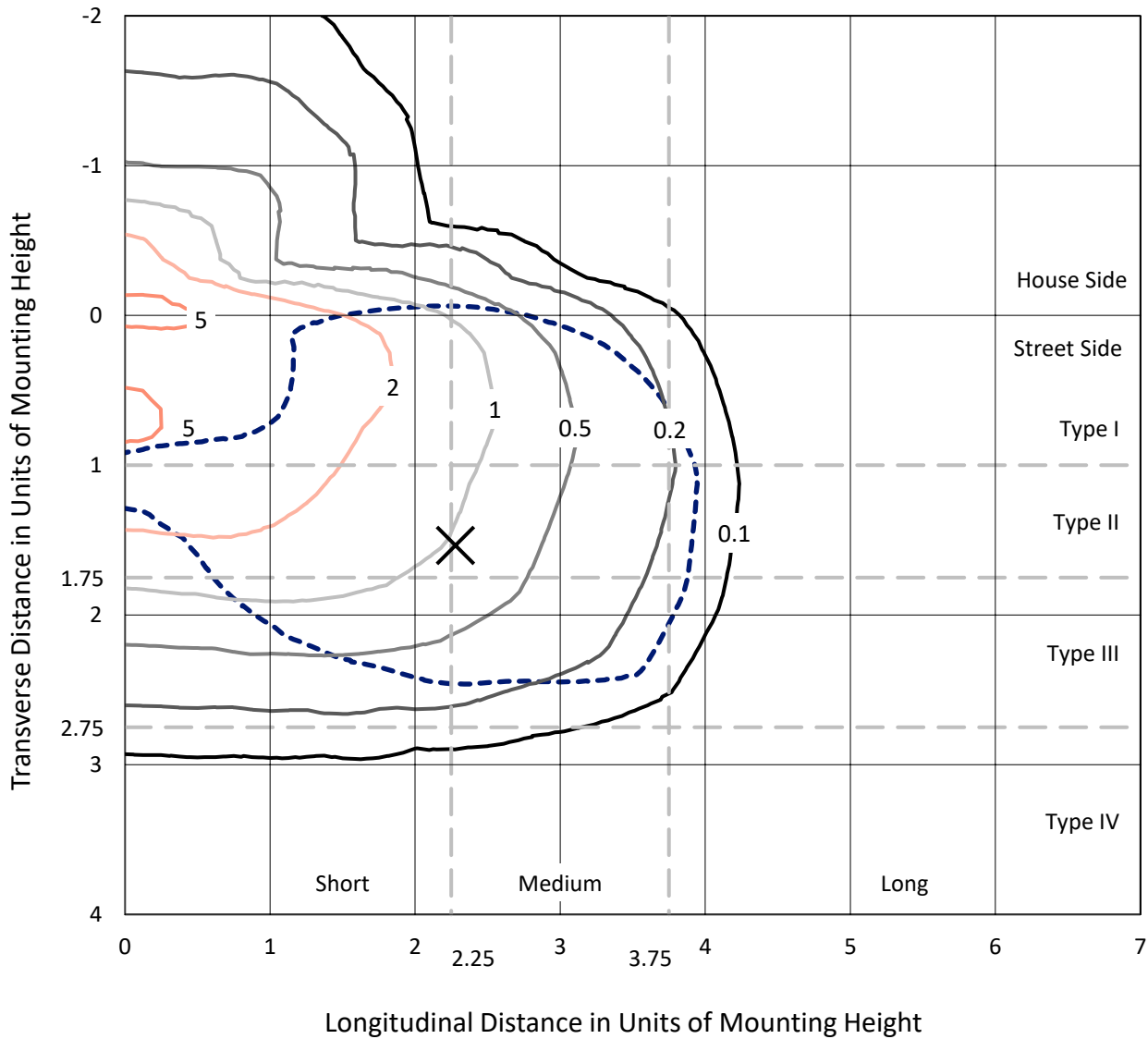


REPORT NUMBER: P638228

CATALOG NUMBER: GWS-SA4E-735-U-T3R-W

### Iso-Footcandle Lines of Horizontal Illumination

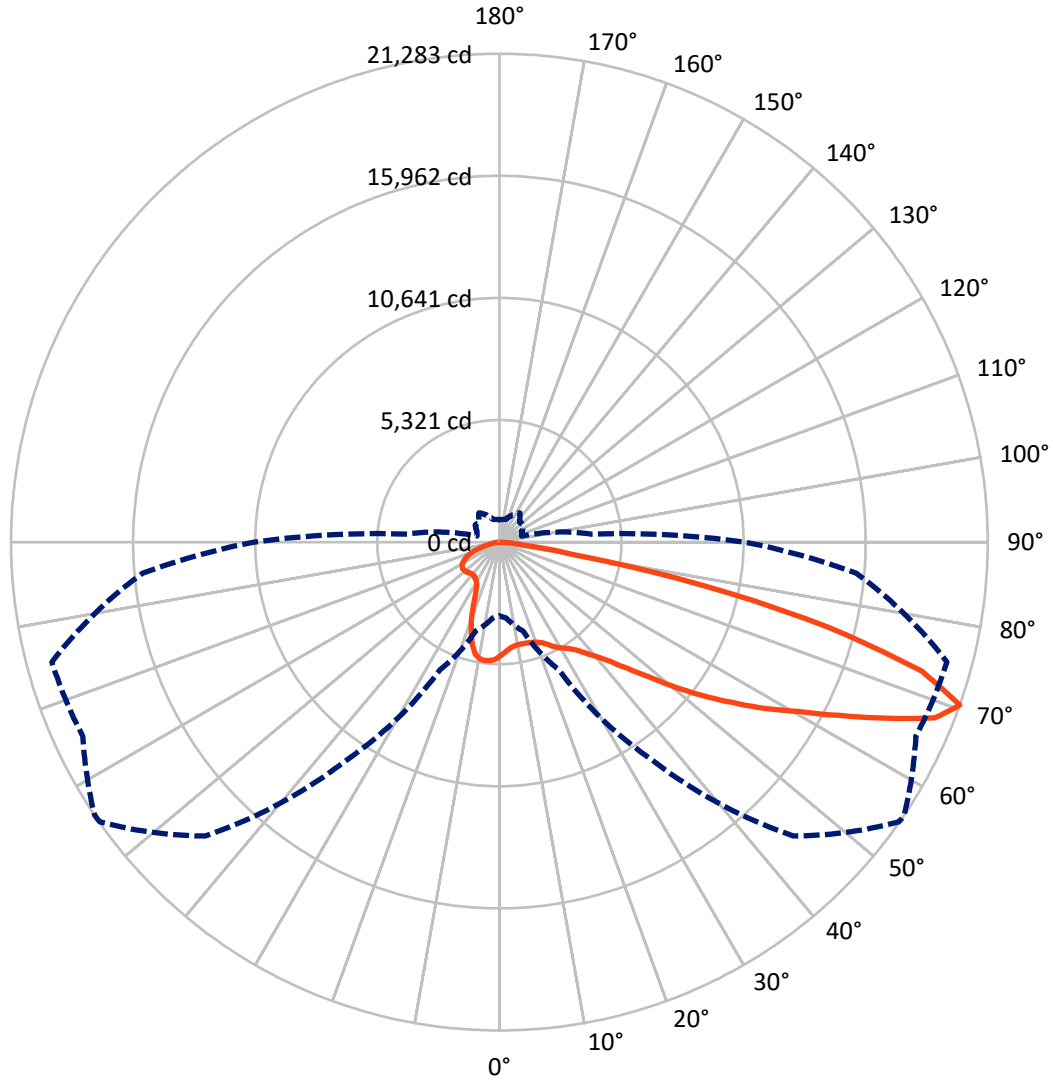
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P638228  
CATALOG NUMBER: GWS-SA4E-735-U-T3R-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638228

CATALOG NUMBER: GWS-SA4E-735-U-T3R-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5899.1	0.0	5899.1
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	24785.0	0.0	24785.0
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	30684.1	0.0	30684.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.3	1.5
10°-20°	1241.9	4.0
20°-30°	2053.2	6.7
30°-40°	3069.7	10.0
40°-50°	4568.2	14.9
50°-60°	6494.6	21.2
60°-70°	8043.8	26.2
70°-80°	4441.5	14.5
80°-90°	312.8	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°	30684.1	100.0
0°-180°	30684.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638228

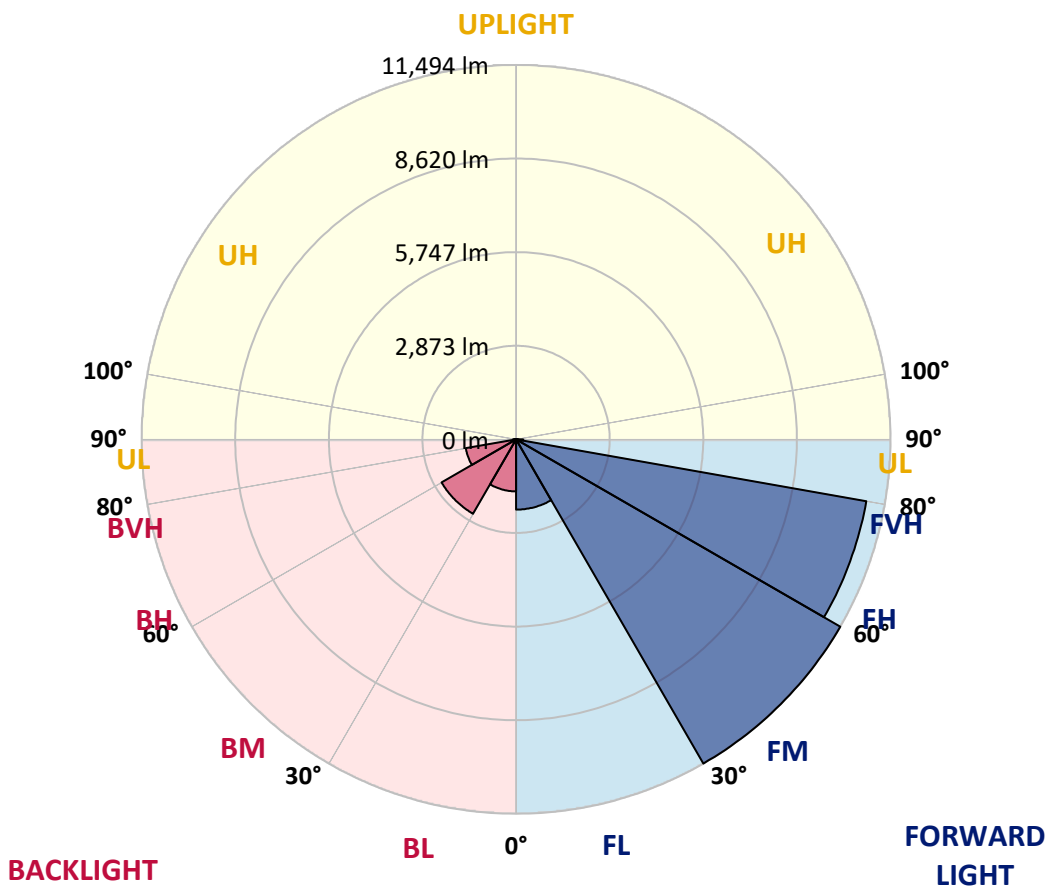
CATALOG NUMBER: GWS-SA4E-735-U-T3R-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2156.4	7.0			
FM (30°-60°)	11493.8	37.5			
FH (60°-80°)	10917.4	35.6			G4/12000
FVH (80°-90°)	217.4	0.7			G2/225
BL (0°-30°)	1596.9	5.2	B3/2500		
BM (30°-60°)	2638.8	8.6	B3/5000		
BH (60°-80°)	1567.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	95.4	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-G4**

Type III Medium





REPORT NUMBER: P638228  
 CATALOG NUMBER: GWS-SA4E-735-U-T3R-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9
2.5°	4634.8	4608.8	4639.1	4654.3	4693.2	4749.5	4799.3	4801.4	4827.4	4890.1	4950.7
5°	4424.9	4411.9	4420.6	4466.0	4507.1	4578.6	4654.3	4660.8	4734.3	4857.7	4978.9
7.5°	4262.6	4245.3	4277.8	4336.2	4388.1	4468.2	4567.7	4576.4	4680.2	4866.3	5052.4
10°	4029.0	4016.0	4076.6	4154.5	4267.0	4399.0	4530.9	4541.8	4678.1	4922.6	5182.2
12.5°	3927.3	3927.3	3953.2	4026.8	4150.1	4325.4	4524.5	4541.8	4712.7	5009.1	5348.9
15°	4085.2	4096.0	4074.4	4070.1	4119.8	4286.4	4533.1	4559.1	4777.6	5097.9	5513.3
17.5°	4403.3	4414.1	4357.8	4269.1	4219.4	4323.2	4565.6	4593.7	4846.9	5195.2	5690.7
20°	4849.0	4862.0	4738.7	4602.4	4431.4	4429.3	4628.3	4654.3	4935.6	5301.3	5879.0
22.5°	5370.5	5379.1	5223.4	5007.0	4745.2	4626.2	4736.5	4762.5	5050.3	5448.4	6082.4
25°	5974.2	6000.2	5811.9	5498.2	5143.3	4896.6	4916.1	4946.4	5255.8	5645.3	6322.6
27.5°	6619.0	6651.5	6435.1	6088.9	5599.9	5195.2	5147.6	5173.6	5474.4	5766.5	6450.2
30°	7278.9	7302.7	7086.4	6690.4	6091.0	5532.8	5342.4	5357.5	5569.6	5824.9	6580.0
32.5°	8012.5	7993.0	7785.3	7328.7	6657.9	5937.4	5524.1	5519.8	5675.6	5941.7	6766.1
35°	8700.5	8728.7	8508.0	8003.8	7281.1	6437.2	5796.8	5779.4	5900.6	6132.1	7027.9
37.5°	9533.6	9524.9	9261.0	8715.7	7906.4	6915.4	6179.7	6149.5	6192.7	6428.6	7393.6
40°	10128.6	10189.2	10018.3	9509.8	8637.8	7504.0	6627.6	6560.6	6571.4	6794.3	7882.6
42.5°	10615.5	10671.7	10689.1	10364.5	9475.2	8231.0	7185.9	7118.8	7125.3	7441.2	8484.2
45°	10989.8	11065.6	11310.1	11214.9	10418.6	9070.6	7941.1	7871.8	7876.1	8226.7	9211.2
47.5°	11143.5	11225.7	11721.2	11948.4	11420.4	10074.5	8880.1	8778.4	8793.6	9180.9	10042.1
50°	11093.7	11204.0	11874.8	12513.1	12260.0	11095.8	10003.1	9931.7	9873.3	10435.9	10944.4
52.5°	10665.3	10786.4	11859.7	12872.3	12945.9	12060.9	11162.9	11121.8	11108.8	11768.8	11952.7
55°	9403.8	9607.2	11338.2	12967.5	13482.5	12969.7	12420.1	12350.8	12417.9	13196.9	12971.8
57.5°	8704.9	8856.3	10316.9	12861.5	13921.7	13835.2	13675.1	13681.6	13757.3	14748.3	14207.4
60°	8306.7	8484.2	9750.0	12571.5	14343.7	14886.8	14988.5	14988.5	15124.8	16420.9	15462.4
62.5°	7778.8	7958.4	9219.9	12013.3	14733.2	16124.5	16639.4	16633.0	16687.0	18214.7	16689.2
65°	6707.7	6874.3	8155.3	11132.6	14923.6	17487.6	18515.4	18496.0	18387.8	19811.5	17500.6
67.5°	4870.7	5028.6	6246.8	9457.9	14237.7	18586.8	20447.7	20456.3	19809.4	20817.7	17543.9
70°	3211.0	3319.2	4016.0	6143.0	11578.4	18113.0	21256.9	21282.9	20027.9	20190.2	15613.8
72.5°	2003.7	2079.4	2507.8	3663.3	6841.9	14337.2	19179.7	19251.1	18017.8	17743.0	12829.0
75°	1330.7	1382.7	1668.3	2135.6	3165.6	7759.3	14579.5	14808.9	14441.0	13908.8	8938.6
77.5°	800.6	843.9	1062.4	1356.7	1402.1	3031.5	8510.1	9103.0	9154.9	7261.6	3743.3
80°	365.7	415.4	586.4	774.6	746.5	1055.9	3001.2	3139.6	3704.4	2306.6	1181.4
82.5°	216.4	238.0	389.5	385.2	318.1	512.8	1079.7	1107.9	941.2	843.9	504.2
85°	86.6	101.7	164.4	145.0	116.8	166.6	406.8	426.3	409.0	367.8	186.1
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	36.8	38.9	56.3	101.7	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638228  
 CATALOG NUMBER: GWS-SA4E-735-U-T3R-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9
2.5°	4989.7	4976.7	5041.6	5091.4	5113.0	5134.6	5115.2	5108.7	5108.7	5065.4	5043.8
5°	5043.8	5050.3	5139.0	5180.1	5180.1	5162.8	5110.8	5074.1	5061.1	5004.8	4989.7
7.5°	5145.5	5173.6	5255.8	5253.7	5193.1	5097.9	4968.0	4868.5	4777.6	4738.7	4714.9
10°	5312.1	5348.9	5405.1	5314.2	5145.5	4894.5	4619.7	4403.3	4273.5	4169.6	4169.6
12.5°	5502.5	5537.1	5526.3	5316.4	4968.0	4498.5	4102.5	3853.7	3671.9	3576.7	3576.7
15°	5692.9	5721.0	5604.2	5216.9	4598.0	3972.7	3539.9	3241.3	3083.4	2994.7	2994.7
17.5°	5885.5	5883.3	5636.6	4987.5	4115.5	3390.6	2966.5	2735.0	2680.9	2665.8	2663.6
20°	6071.6	6021.8	5595.5	4604.5	3555.1	2804.3	2535.9	2551.1	2631.2	2665.8	2670.1
22.5°	6281.4	6158.1	5474.4	4115.5	2918.9	2397.5	2414.8	2540.3	2657.1	2709.0	2715.5
25°	6495.7	6275.0	5271.0	3542.1	2386.6	2248.2	2382.3	2523.0	2655.0	2722.0	2728.5
27.5°	6582.2	6275.0	4924.8	2877.8	2103.2	2185.4	2332.6	2468.9	2607.4	2685.2	2700.4
30°	6653.6	6220.9	4440.1	2278.5	1986.3	2124.8	2252.5	2378.0	2514.3	2609.5	2626.8
32.5°	6753.1	6173.3	3853.7	1914.9	1932.3	2066.4	2155.1	2261.1	2384.5	2447.2	2440.7
35°	6870.0	6099.7	3146.1	1741.8	1886.8	2016.6	2079.4	2142.1	2085.9	2083.7	2090.2
37.5°	7036.6	6034.8	2529.5	1663.9	1856.5	1982.0	2034.0	1899.8	1821.9	1789.4	1776.5
40°	7276.8	6008.8	1995.0	1618.5	1852.2	1979.9	1943.1	1735.3	1629.3	1516.8	1514.6
42.5°	7579.7	5989.3	1648.8	1596.9	1867.3	2029.6	1817.6	1627.2	1408.6	1358.9	1354.5
45°	7969.2	5959.0	1475.7	1592.5	1904.1	2068.6	1804.6	1477.9	1328.6	1306.9	1306.9
47.5°	8438.7	5911.4	1397.8	1592.5	1945.2	2051.3	1765.6	1445.4	1291.8	1315.6	1330.7
50°	8977.5	5850.9	1356.7	1588.2	1986.3	2051.3	1683.4	1438.9	1283.1	1406.5	1456.2
52.5°	9553.1	5781.6	1328.6	1570.9	2014.5	2053.4	1687.7	1460.5	1291.8	1428.1	1469.2
55°	10189.2	5770.8	1289.6	1534.1	2023.1	1997.2	1698.6	1508.2	1304.8	1293.9	1296.1
57.5°	10992.0	5900.6	1261.5	1480.0	1988.5	1882.5	1720.2	1542.8	1289.6	1291.8	1306.9
60°	11831.5	6145.1	1285.3	1428.1	1917.1	1774.3	1735.3	1525.5	1216.0	1181.4	1185.7
62.5°	12545.6	6331.2	1304.8	1404.3	1813.2	1679.1	1720.2	1486.5	1174.9	1166.3	1185.7
65°	12844.2	6177.6	1257.2	1354.5	1661.8	1562.2	1687.7	1436.7	1140.3	1107.9	1110.0
67.5°	12513.1	5457.0	1164.1	1244.2	1490.8	1412.9	1635.8	1371.8	1092.7	1053.8	1045.1
70°	10689.1	4009.5	1004.0	1068.9	1283.1	1237.7	1555.8	1287.4	1017.0	988.8	969.4
72.5°	8614.0	2838.9	833.1	850.4	1006.2	1042.9	1417.3	1181.4	930.4	850.4	822.2
75°	5995.8	1783.0	694.6	677.3	727.0	796.3	1105.7	980.2	802.8	718.4	692.4
77.5°	2579.2	915.3	543.1	534.5	484.7	551.8	848.2	817.9	672.9	575.6	560.4
80°	863.3	530.1	391.6	376.5	322.4	387.3	597.2	653.5	528.0	426.3	400.3
82.5°	432.8	307.3	248.8	225.0	216.4	244.5	352.7	406.8	365.7	294.3	248.8
85°	212.1	175.3	136.3	134.2	112.5	106.0	147.1	173.1	164.4	121.2	114.7
87.5°	77.9	69.2	43.3	34.6	21.6	15.1	8.7	8.7	6.5	6.5	6.5
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)