

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: P643672

Luminaire Tested: GWS-SA6F-735-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-735-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

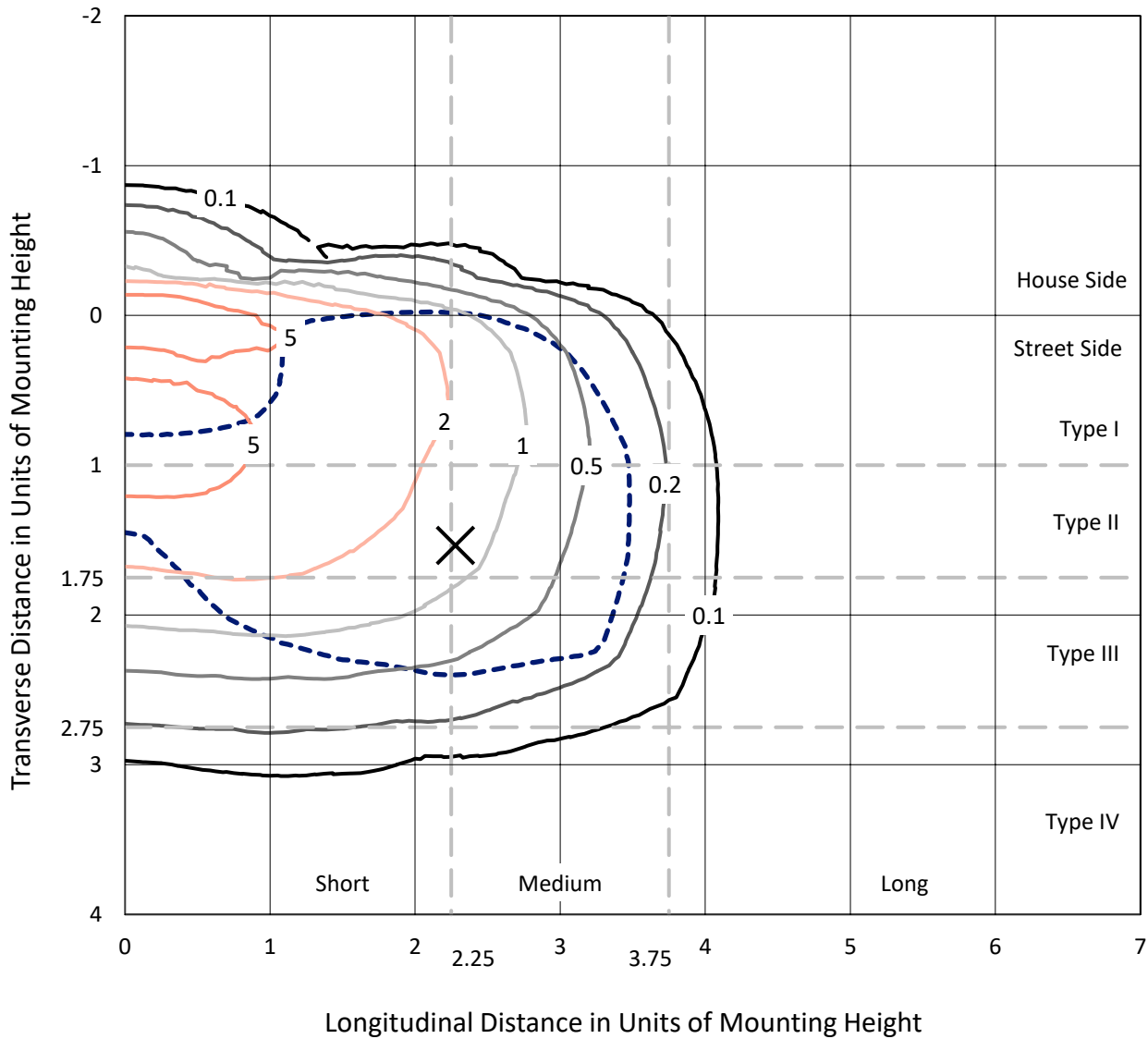
Lumens per Lamp: N/A  
Luminaire Lumens: 38427.2 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P643672  
 CATALOG NUMBER: GWS-SA6F-735-U-T3R-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

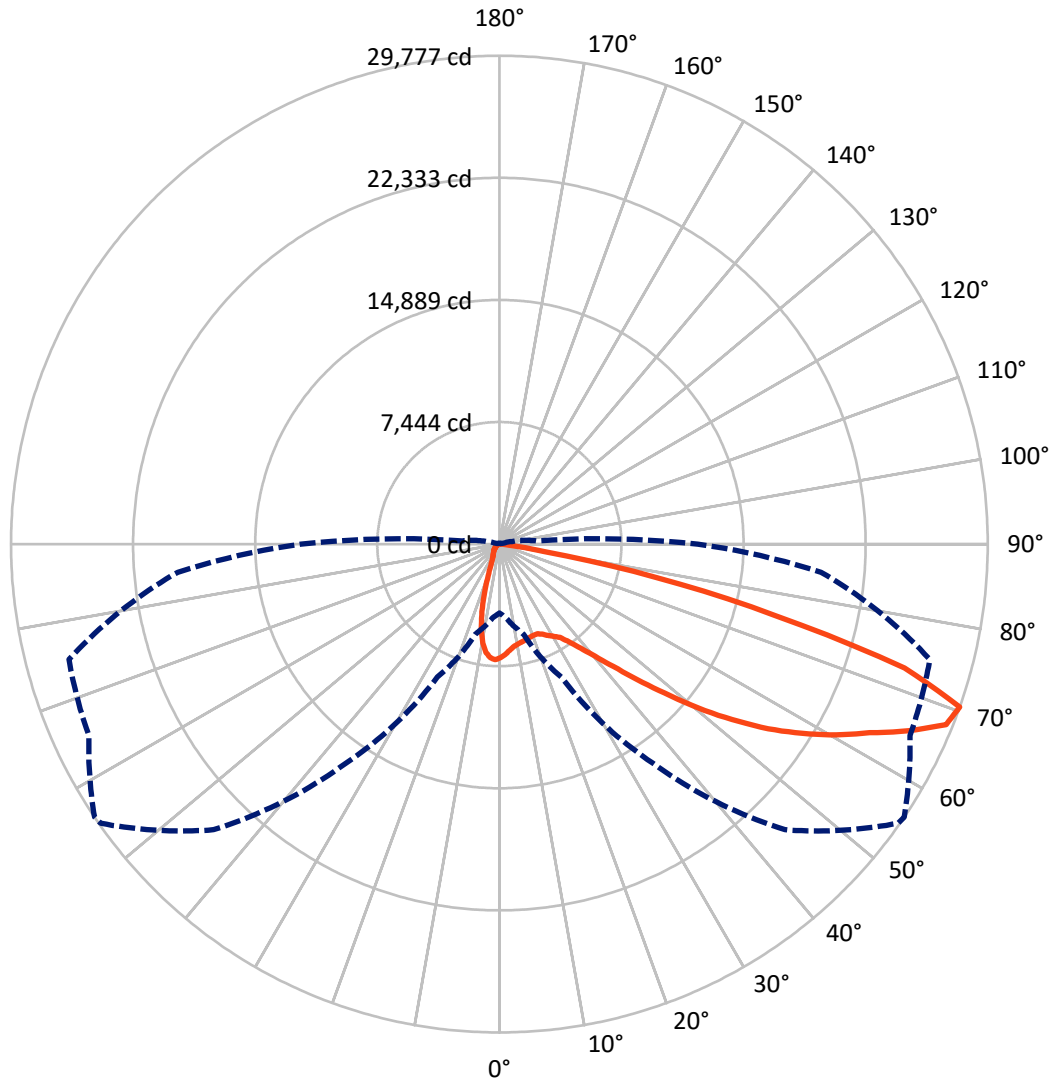
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P643672  
CATALOG NUMBER: GWS-SA6F-735-U-T3R-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P643672

CATALOG NUMBER: GWS-SA6F-735-U-T3R-W-HSS

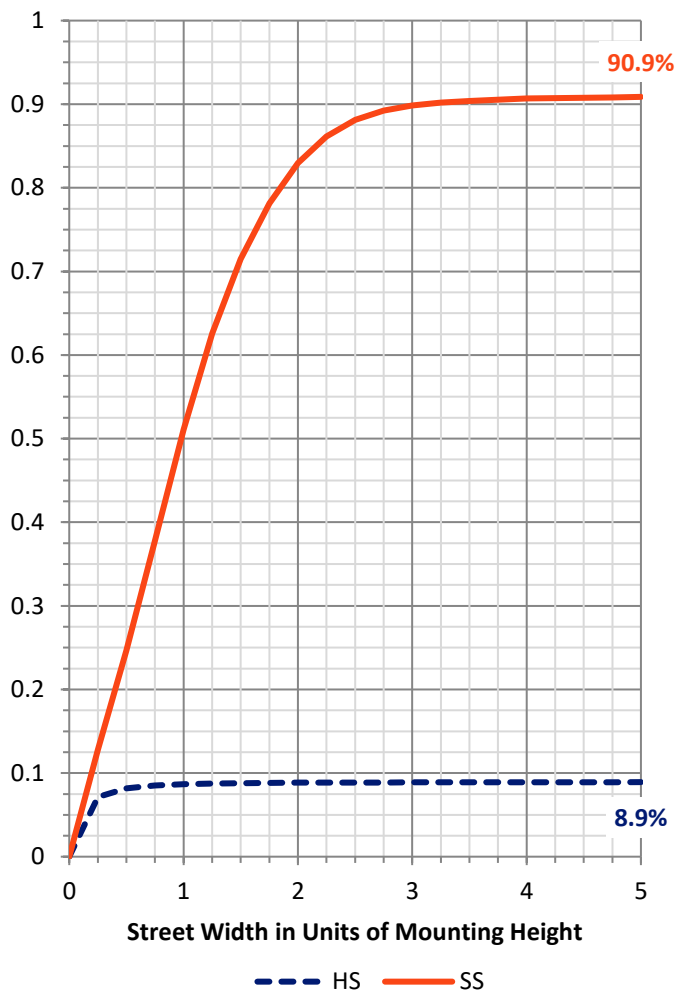
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3451.5	0.0	3451.5
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	34975.7	0.0	34975.7
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	38427.2	0.0	38427.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.9	1.5
10°-20°	1338.0	3.5
20°-30°	2119.4	5.5
30°-40°	3654.9	9.5
40°-50°	6171.8	16.1
50°-60°	9068.4	23.6
60°-70°	10751.1	28.0
70°-80°	4584.7	11.9
80°-90°	144.0	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°	38427.2	100.0
0°-180°	38427.2	100.0

**Coefficient of Utilization**



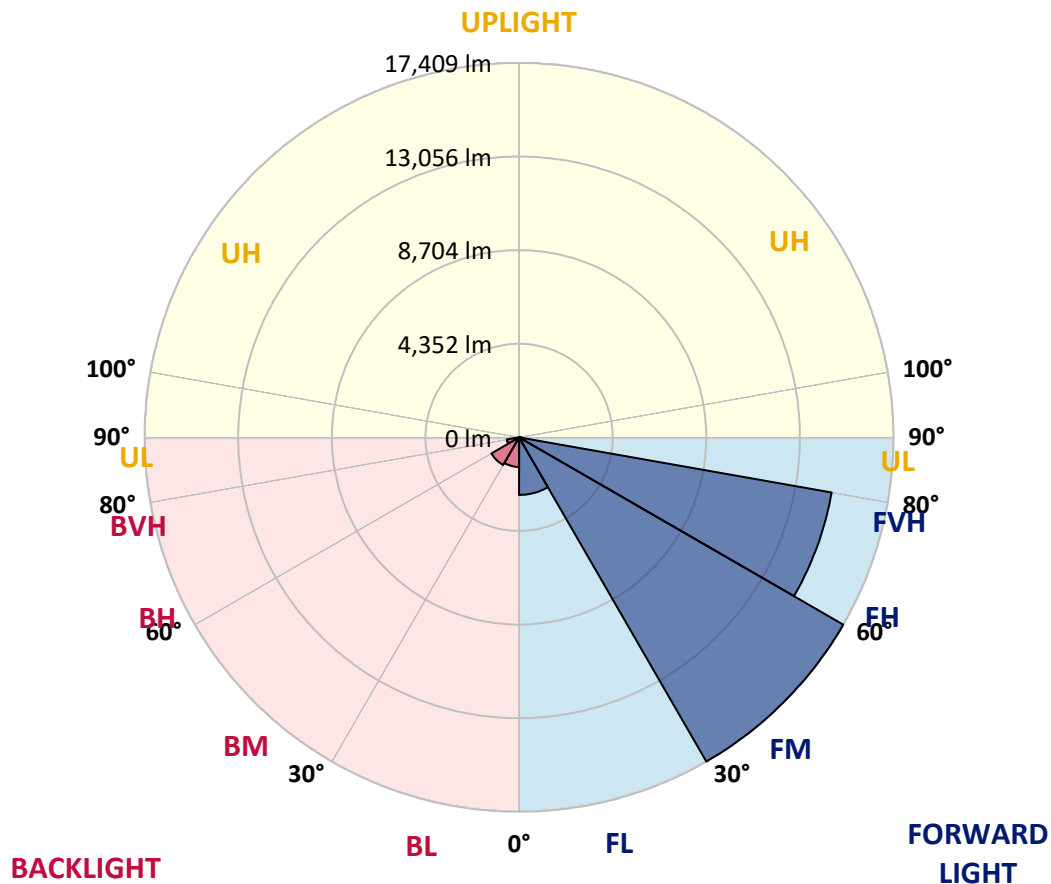
REPORT NUMBER: P643672

CATALOG NUMBER: GWS-SA6F-735-U-T3R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2677.7	7.0			
FM (30°-60°)	17408.5	45.3			
FH (60°-80°)	14760.2	38.4			G5
FVH (80°-90°)	129.3	0.3			G2/225
BL (0°-30°)	1374.6	3.6	B3/2500		
BM (30°-60°)	1486.6	3.9	B2/2500		
BH (60°-80°)	575.7	1.5	B2/1000		G2/1000
BVH (80°-90°)	14.6	0.0			G1/100
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





REPORT NUMBER: P643672

CATALOG NUMBER: GWS-SA6F-735-U-T3R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8
2.5°	6450.2	6439.7	6446.7	6499.5	6598.0	6643.8	6721.2	6735.3	6798.6	6879.5	6911.2
5°	6031.5	5996.3	6013.9	6087.8	6200.4	6327.1	6471.3	6510.1	6668.4	6847.9	6981.6
7.5°	5647.9	5609.2	5651.4	5767.6	5925.9	6063.1	6277.8	6302.4	6555.8	6872.5	7115.3
10°	5046.2	5056.7	5141.2	5345.3	5588.1	5873.1	6161.7	6196.9	6510.1	6953.4	7330.0
12.5°	4585.2	4560.6	4652.1	4884.3	5225.6	5640.9	6073.7	6119.5	6513.6	7076.6	7604.4
15°	4370.5	4363.5	4402.2	4571.1	4901.9	5391.0	5992.8	6052.6	6559.3	7189.2	7864.9
17.5°	4377.6	4367.0	4363.5	4462.0	4708.4	5204.5	5904.8	5982.2	6598.0	7312.4	8139.3
20°	4683.7	4634.5	4546.5	4500.7	4648.5	5084.9	5845.0	5932.9	6654.3	7442.6	8431.4
22.5°	5324.2	5341.8	5106.0	4859.7	4789.3	5099.0	5837.9	5940.0	6777.5	7646.7	8790.3
25°	6605.1	6576.9	6140.6	5588.1	5204.5	5260.8	5961.1	6084.3	7020.3	7938.7	9128.2
27.5°	8209.7	8234.3	7636.1	6756.4	5954.1	5595.1	6186.3	6309.5	7301.8	8121.7	9353.4
30°	9958.6	9934.0	9293.5	8318.8	7016.8	6151.1	6411.5	6520.6	7442.6	8220.3	9585.6
32.5°	11612.5	11556.2	10922.8	9902.3	8371.6	7027.3	6721.2	6784.5	7629.1	8434.9	9898.8
35°	13023.6	13020.1	12467.6	11380.3	9765.1	8125.3	7252.6	7305.3	7977.5	8776.3	10359.8
37.5°	14480.5	14431.2	13811.9	12819.5	11197.3	9328.7	8065.4	8044.3	8526.4	9279.5	10926.3
40°	15676.9	15645.2	15170.2	14216.6	12685.8	10658.9	9050.7	8987.4	9177.4	9976.2	11714.6
42.5°	16563.7	16567.2	16419.4	15838.8	14262.3	12196.7	10289.4	10190.9	10187.4	11028.4	12756.2
45°	17235.8	17281.6	17503.3	17415.3	16123.8	13987.8	11876.5	11774.4	11602.0	12393.7	13949.1
47.5°	17549.0	17608.8	18277.4	18629.3	17753.1	15764.9	13766.1	13551.5	13213.7	14209.5	15282.8
50°	17517.3	17622.9	18555.4	19625.2	19231.1	17566.6	15824.7	15722.7	15170.2	16130.9	16602.4
52.5°	16799.5	17024.7	18573.0	20230.4	20367.7	19227.5	17953.7	17763.7	17496.2	18136.7	17841.1
55°	14850.0	15124.4	17830.5	20424.0	21254.5	20677.3	20036.9	19882.1	19438.7	20029.9	18921.4
57.5°	13790.8	14026.5	16268.1	20329.0	22007.5	22018.1	21891.4	21764.7	21398.7	21901.9	20188.2
60°	13153.8	13389.6	15434.1	19980.6	22690.2	23432.7	23633.3	23619.2	23091.3	24030.9	21673.2
62.5°	12221.3	12545.1	14564.9	19076.2	23175.8	24826.2	25431.4	25336.4	24748.8	26247.8	23144.1
65°	10338.7	10620.2	12784.3	17584.2	22890.8	25980.4	27380.9	27430.2	26751.1	28334.6	24305.4
67.5°	7249.0	7456.7	9606.7	14452.3	20955.3	26360.4	29376.2	29372.7	28214.9	29404.3	23791.6
70°	4201.6	4486.7	5676.1	8934.6	16303.3	24632.6	29675.3	29777.3	27620.2	27169.8	19688.5
72.5°	1625.8	1861.5	3216.3	4747.1	8501.8	18868.6	25526.5	25825.6	23116.0	20958.9	13702.8
75°	485.6	541.9	1513.1	2526.6	3413.4	9114.1	17281.6	17366.0	15856.4	13072.9	7023.8
77.5°	362.5	401.2	661.6	1277.4	1196.4	2762.4	8941.6	9765.1	8417.3	4669.6	1935.4
80°	246.3	292.1	471.5	622.9	443.4	735.5	2512.5	2758.9	2568.8	1048.6	485.6
82.5°	109.1	140.8	334.3	313.2	161.9	211.1	774.2	823.4	531.4	316.7	168.9
85°	10.6	14.1	126.7	137.2	59.8	49.3	161.9	161.9	116.1	109.1	70.4
87.5°	0.0	0.0	3.5	7.0	7.0	10.6	14.1	17.6	21.1	28.2	35.2
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: P643672  
 CATALOG NUMBER: GWS-SA6F-735-U-T3R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8	6928.8
2.5°	6992.2	6949.9	7002.7	7044.9	7055.5	6978.1	6932.3	6865.5	6851.4	6854.9	6837.3
5°	7087.2	7066.0	7104.8	7059.0	6939.4	6714.2	6520.6	6306.0	6189.8	6123.0	6115.9
7.5°	7263.1	7252.6	7210.3	7002.7	6629.7	6130.0	5647.9	5176.4	4884.3	4778.7	4761.1
10°	7523.5	7502.4	7330.0	6837.3	6042.0	5081.4	4272.0	3596.4	3184.6	3065.0	2917.2
12.5°	7822.6	7780.4	7403.9	6481.9	5155.3	3825.1	2815.2	2058.6	1703.2	1597.6	1597.6
15°	8111.2	8019.7	7361.6	5894.2	4064.4	2487.9	1573.0	1189.4	1080.3	1052.2	1052.2
17.5°	8406.8	8230.8	7196.3	5091.9	2808.1	1470.9	1048.6	974.7	960.7	964.2	967.7
20°	8684.8	8410.3	6904.2	4127.7	1791.1	1027.5	939.6	922.0	914.9	922.0	918.4
22.5°	8987.4	8575.7	6460.8	3075.6	1164.8	925.5	893.8	879.7	872.7	883.3	883.3
25°	9286.5	8695.3	5873.1	2069.1	925.5	862.1	844.5	830.5	823.4	827.0	827.0
27.5°	9441.3	8649.6	5102.5	1319.6	830.5	798.8	781.2	763.6	753.1	749.5	753.1
30°	9546.9	8508.8	4159.4	939.6	753.1	714.3	696.8	682.7	654.5	636.9	644.0
32.5°	9712.3	8368.1	3135.4	788.2	689.7	629.9	601.7	566.6	527.8	510.2	510.2
35°	9909.4	8174.5	2199.3	710.8	622.9	559.5	506.7	446.9	401.2	387.1	387.1
37.5°	10169.8	7991.5	1463.9	658.0	566.6	499.7	425.8	355.4	306.1	299.1	295.6
40°	10560.4	7836.7	1031.1	619.3	517.3	436.3	348.4	274.5	239.3	228.7	228.7
42.5°	11067.1	7678.3	816.4	580.6	475.1	376.5	278.0	218.2	190.0	183.0	179.5
45°	11693.5	7491.8	710.8	545.4	432.8	313.2	221.7	183.0	161.9	154.8	154.8
47.5°	12372.6	7238.5	661.6	499.7	383.6	253.4	186.5	158.4	147.8	144.3	140.8
50°	13041.2	6897.1	619.3	457.5	327.3	207.6	161.9	144.3	137.2	133.7	133.7
52.5°	13625.4	6499.5	566.6	408.2	267.4	179.5	144.3	133.7	126.7	119.6	116.1
55°	14125.1	6066.7	499.7	351.9	218.2	158.4	133.7	123.2	116.1	109.1	105.6
57.5°	14769.0	5820.3	401.2	285.0	179.5	140.8	123.2	112.6	105.6	95.0	95.0
60°	15483.4	5640.9	299.1	225.2	154.8	130.2	112.6	102.0	95.0	84.5	84.5
62.5°	16057.0	5373.4	235.8	183.0	133.7	116.1	102.0	91.5	84.5	73.9	73.9
65°	16275.1	4821.0	193.5	144.3	109.1	102.0	91.5	84.5	73.9	63.3	63.3
67.5°	15289.8	3716.0	161.9	116.1	91.5	88.0	80.9	77.4	63.3	56.3	52.8
70°	12108.7	2266.2	133.7	95.0	77.4	73.9	73.9	66.9	56.3	52.8	49.3
72.5°	8297.7	1168.3	109.1	77.4	66.9	66.9	63.3	59.8	52.8	49.3	49.3
75°	4310.7	390.6	84.5	59.8	52.8	56.3	56.3	52.8	49.3	49.3	45.7
77.5°	1235.2	175.9	63.3	45.7	42.2	42.2	45.7	45.7	45.7	42.2	42.2
80°	320.2	102.0	45.7	35.2	35.2	35.2	35.2	38.7	42.2	38.7	38.7
82.5°	130.2	56.3	31.7	28.2	28.2	28.2	28.2	31.7	35.2	35.2	35.2
85°	80.9	28.2	24.6	24.6	24.6	21.1	21.1	24.6	24.6	28.2	28.2
87.5°	49.3	21.1	21.1	21.1	21.1	17.6	17.6	17.6	17.6	17.6	17.6
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)