

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: P643837

Luminaire Tested: GWS-SA6F-760-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643837  
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-SA6F-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

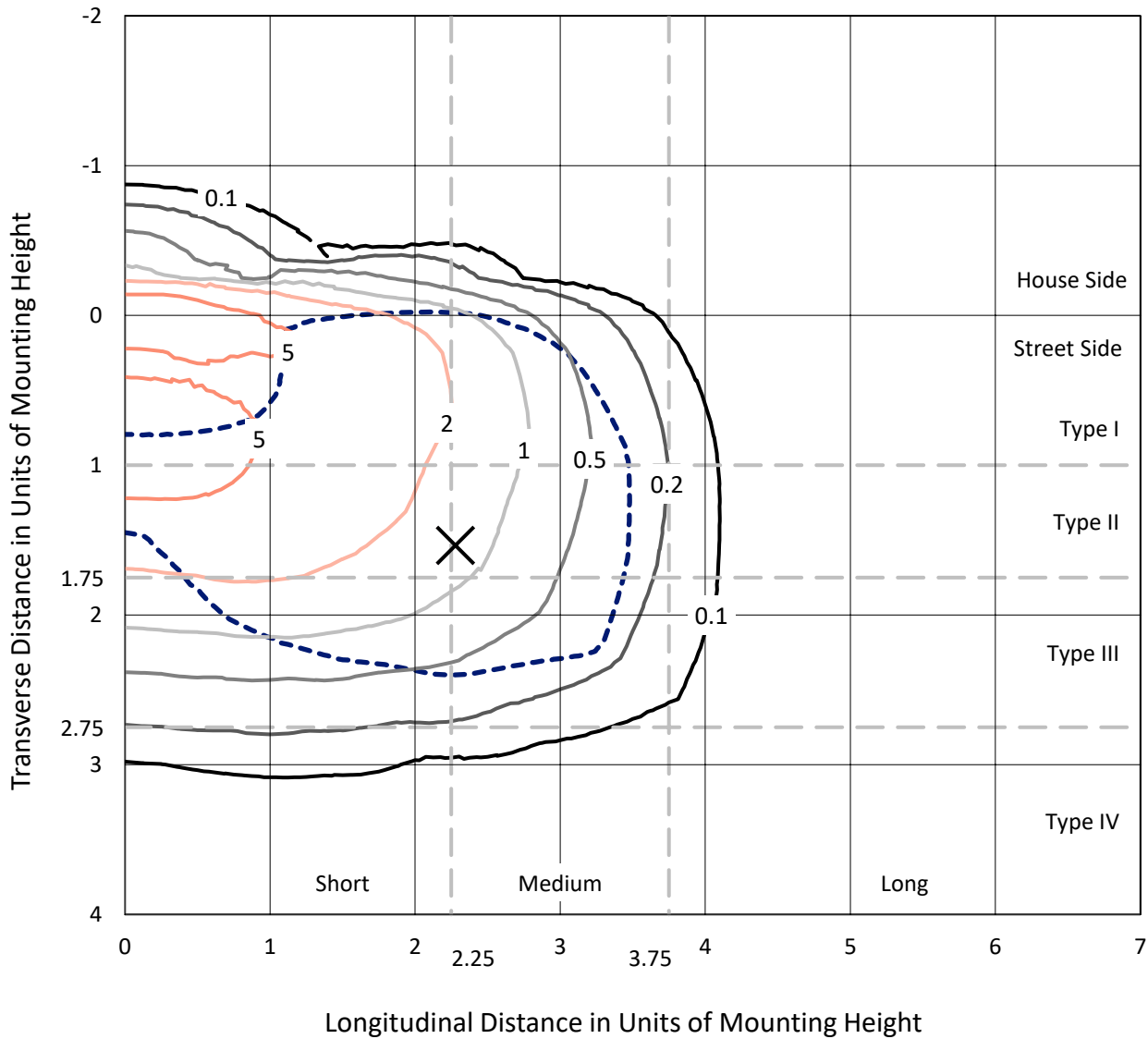
Lumens per Lamp: N/A  
Luminaire Lumens: 39307.8 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

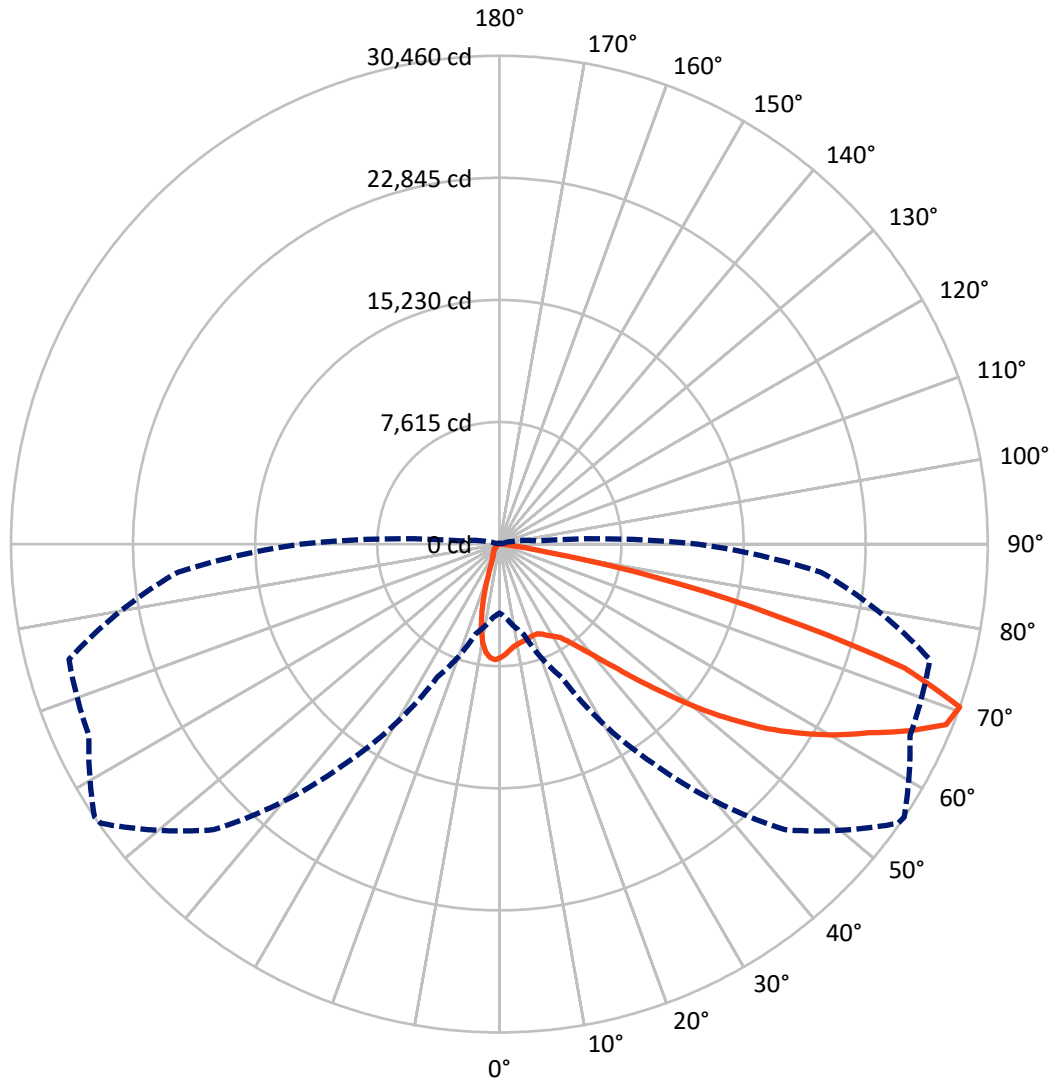
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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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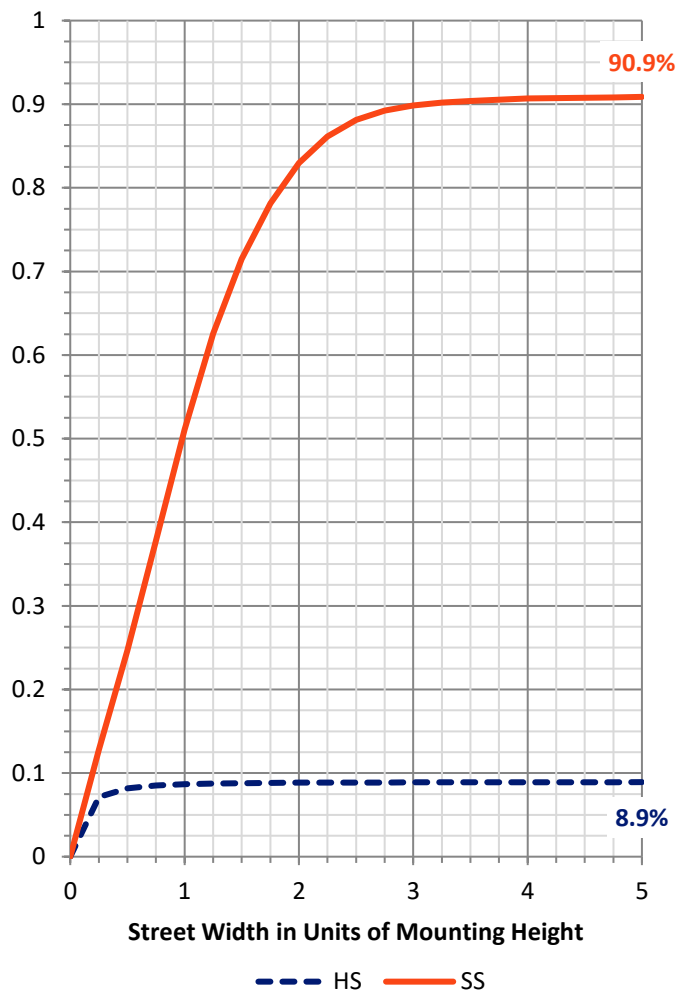
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3530.6	0.0	3530.6
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	35777.2	0.0	35777.2
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	39307.8	0.0	39307.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.5	1.5
10°-20°	1368.7	3.5
20°-30°	2168.0	5.5
30°-40°	3738.6	9.5
40°-50°	6313.3	16.1
50°-60°	9276.3	23.6
60°-70°	10997.5	28.0
70°-80°	4689.8	11.9
80°-90°	147.3	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°	39307.8	100.0
0°-180°	39307.8	100.0

**Coefficient of Utilization**



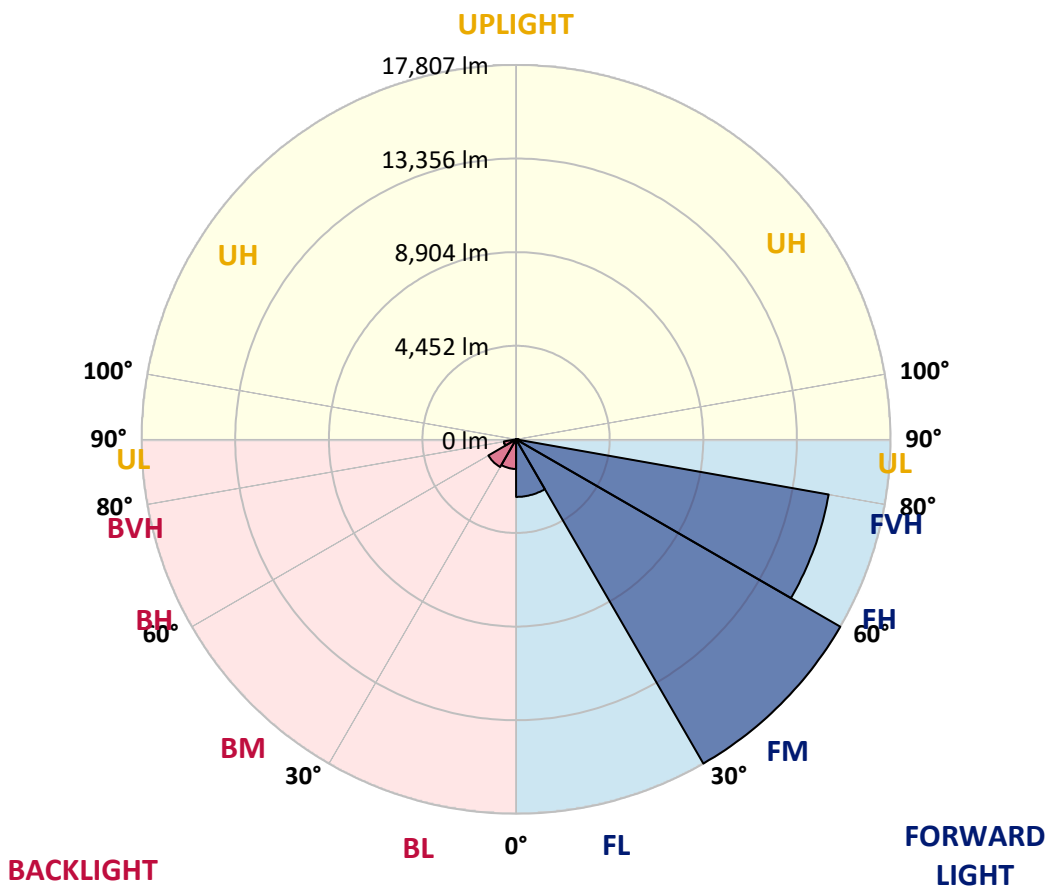
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.0	7.0			
FM (30°-60°)	17807.5	45.3			
FH (60°-80°)	15098.4	38.4			G5
FVH (80°-90°)	132.3	0.3			G2/225
BL (0°-30°)	1406.1	3.6	B3/2500		
BM (30°-60°)	1520.7	3.9	B2/2500		
BH (60°-80°)	588.9	1.5	B2/1000		G2/1000
BVH (80°-90°)	15.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6
2.5°	6598.0	6587.2	6594.4	6648.4	6749.2	6796.0	6875.2	6889.6	6954.4	7037.2	7069.6
5°	6169.7	6133.7	6151.7	6227.3	6342.5	6472.1	6619.6	6659.2	6821.2	7004.8	7141.6
7.5°	5777.3	5737.7	5780.9	5899.7	6061.7	6202.1	6421.7	6446.9	6706.0	7030.0	7278.4
10°	5161.8	5172.6	5259.0	5467.8	5716.1	6007.7	6302.9	6338.9	6659.2	7112.8	7497.9
12.5°	4690.3	4665.1	4758.7	4996.2	5345.4	5770.1	6212.9	6259.7	6662.8	7238.8	7778.7
15°	4470.7	4463.5	4503.1	4675.9	5014.2	5514.6	6130.1	6191.3	6709.6	7354.0	8045.1
17.5°	4477.9	4467.1	4463.5	4564.3	4816.3	5323.8	6040.1	6119.3	6749.2	7479.9	8325.9
20°	4791.1	4740.7	4650.7	4603.9	4755.1	5201.4	5978.9	6068.9	6806.8	7613.1	8624.6
22.5°	5446.2	5464.2	5223.0	4971.0	4899.0	5215.8	5971.7	6076.1	6932.8	7821.9	8991.8
25°	6756.4	6727.6	6281.3	5716.1	5323.8	5381.4	6097.7	6223.7	7181.2	8120.7	9337.3
27.5°	8397.8	8423.0	7811.1	6911.2	6090.5	5723.3	6328.1	6454.1	7469.1	8307.9	9567.7
30°	10186.8	10161.6	9506.5	8509.4	7177.6	6292.1	6558.5	6670.0	7613.1	8408.6	9805.3
32.5°	11878.6	11821.1	11173.1	10129.2	8563.4	7188.4	6875.2	6940.0	7803.9	8628.2	10125.6
35°	13322.1	13318.5	12753.3	11641.1	9988.9	8311.5	7418.8	7472.7	8160.3	8977.4	10597.2
37.5°	14812.3	14761.9	14128.4	13113.3	11453.9	9542.5	8250.3	8228.7	8721.8	9492.1	11176.7
40°	16036.2	16003.8	15517.8	14542.3	12976.5	10903.2	9258.1	9193.4	9387.7	10204.8	11983.0
42.5°	16943.3	16946.9	16795.7	16201.8	14589.1	12476.2	10525.2	10424.4	10420.8	11281.1	13048.5
45°	17630.8	17677.6	17904.4	17814.4	16493.3	14308.4	12148.6	12044.2	11867.8	12677.8	14268.8
47.5°	17951.2	18012.3	18696.3	19056.2	18159.9	16126.2	14081.6	13862.0	13516.5	14535.1	15633.0
50°	17918.8	18026.7	18980.6	20074.9	19671.8	17969.2	16187.4	16083.0	15517.8	16500.5	16982.9
52.5°	17184.4	17414.8	18998.6	20694.0	20834.4	19668.2	18365.1	18170.7	17897.2	18552.3	18249.9
55°	15190.3	15471.0	18239.1	20892.0	21741.5	21151.2	20496.1	20337.7	19884.1	20488.9	19355.0
57.5°	14106.8	14348.0	16640.9	20794.8	22511.8	22522.6	22393.0	22263.5	21889.1	22403.8	20650.8
60°	13455.3	13696.4	15787.8	20438.5	23210.2	23969.7	24174.8	24160.4	23620.5	24581.6	22169.9
62.5°	12501.4	12832.5	14898.7	19513.4	23706.9	25395.1	26014.2	25917.0	25315.9	26849.3	23674.5
65°	10575.6	10863.6	13077.3	17987.1	23415.3	26575.8	28008.4	28058.8	27364.1	28983.9	24862.4
67.5°	7415.2	7627.5	9826.9	14783.5	21435.6	26964.5	30049.4	30045.8	28861.5	30078.2	24336.8
70°	4297.9	4589.5	5806.1	9139.4	16676.9	25197.1	30355.3	30459.7	28253.2	27792.4	20139.7
72.5°	1663.0	1904.2	3290.0	4855.8	8696.6	19301.0	26111.4	26417.4	23645.7	21439.2	14016.8
75°	496.7	554.3	1547.8	2584.5	3491.6	9322.9	17677.6	17764.0	16219.8	13372.5	7184.8
77.5°	370.8	410.4	676.7	1306.7	1223.9	2825.7	9146.6	9988.9	8610.2	4776.7	1979.8
80°	252.0	298.8	482.3	637.1	453.5	752.3	2570.1	2822.1	2627.7	1072.7	496.7
82.5°	111.6	144.0	342.0	320.4	165.6	216.0	791.9	842.3	543.5	324.0	172.8
85°	10.8	14.4	129.6	140.4	61.2	50.4	165.6	165.6	118.8	111.6	72.0
87.5°	0.0	0.0	3.6	7.2	7.2	10.8	14.4	18.0	21.6	28.8	36.0
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°	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6
2.5°	7152.4	7109.2	7163.2	7206.4	7217.2	7138.0	7091.2	7022.8	7008.4	7012.0	6994.0
5°	7249.6	7228.0	7267.6	7220.8	7098.4	6868.0	6670.0	6450.5	6331.7	6263.3	6256.1
7.5°	7429.6	7418.8	7375.6	7163.2	6781.6	6270.5	5777.3	5295.0	4996.2	4888.2	4870.2
10°	7695.9	7674.3	7497.9	6994.0	6180.5	5197.8	4369.9	3678.8	3257.6	3135.2	2984.1
12.5°	8001.9	7958.7	7573.5	6630.4	5273.4	3912.8	2879.7	2105.8	1742.2	1634.2	1634.2
15°	8297.1	8203.5	7530.3	6029.3	4157.5	2544.9	1609.0	1216.7	1105.1	1076.3	1076.3
17.5°	8599.4	8419.4	7361.2	5208.6	2872.5	1504.6	1072.7	997.1	982.7	986.3	989.9
20°	8883.8	8603.0	7062.4	4222.3	1832.2	1051.1	961.1	943.1	935.9	943.1	939.5
22.5°	9193.4	8772.2	6608.8	3146.0	1191.5	946.7	914.3	899.9	892.7	903.5	903.5
25°	9499.3	8894.6	6007.7	2116.6	946.7	881.9	863.9	849.5	842.3	845.9	845.9
27.5°	9657.7	8847.8	5219.4	1349.8	849.5	817.1	799.1	781.1	770.3	766.7	770.3
30°	9765.7	8703.8	4254.7	961.1	770.3	730.7	712.7	698.3	669.5	651.5	658.7
32.5°	9934.9	8559.8	3207.2	806.3	705.5	644.3	615.5	579.5	539.9	521.9	521.9
35°	10136.4	8361.8	2249.7	727.1	637.1	572.3	518.3	457.1	410.4	396.0	396.0
37.5°	10402.8	8174.7	1497.4	673.1	579.5	511.1	435.6	363.6	313.2	306.0	302.4
40°	10802.4	8016.3	1054.7	633.5	529.1	446.3	356.4	280.8	244.8	234.0	234.0
42.5°	11320.7	7854.3	835.1	593.9	485.9	385.2	284.4	223.2	194.4	187.2	183.6
45°	11961.4	7663.5	727.1	557.9	442.7	320.4	226.8	187.2	165.6	158.4	158.4
47.5°	12656.2	7404.4	676.7	511.1	392.4	259.2	190.8	162.0	151.2	147.6	144.0
50°	13340.1	7055.2	633.5	467.9	334.8	212.4	165.6	147.6	140.4	136.8	136.8
52.5°	13937.6	6648.4	579.5	417.6	273.6	183.6	147.6	136.8	129.6	122.4	118.8
55°	14448.8	6205.7	511.1	360.0	223.2	162.0	136.8	126.0	118.8	111.6	108.0
57.5°	15107.5	5953.7	410.4	291.6	183.6	144.0	126.0	115.2	108.0	97.2	97.2
60°	15838.2	5770.1	306.0	230.4	158.4	133.2	115.2	104.4	97.2	86.4	86.4
62.5°	16424.9	5496.6	241.2	187.2	136.8	118.8	104.4	93.6	86.4	75.6	75.6
65°	16648.1	4931.4	198.0	147.6	111.6	104.4	93.6	86.4	75.6	64.8	64.8
67.5°	15640.2	3801.2	165.6	118.8	93.6	90.0	82.8	79.2	64.8	57.6	54.0
70°	12386.2	2318.1	136.8	97.2	79.2	75.6	75.6	68.4	57.6	54.0	50.4
72.5°	8487.8	1195.1	111.6	79.2	68.4	68.4	64.8	61.2	54.0	50.4	50.4
75°	4409.5	399.6	86.4	61.2	54.0	57.6	57.6	54.0	50.4	50.4	46.8
77.5°	1263.5	180.0	64.8	46.8	43.2	43.2	46.8	46.8	46.8	43.2	43.2
80°	327.6	104.4	46.8	36.0	36.0	36.0	36.0	39.6	43.2	39.6	39.6
82.5°	133.2	57.6	32.4	28.8	28.8	28.8	28.8	32.4	36.0	36.0	36.0
85°	82.8	28.8	25.2	25.2	25.2	21.6	21.6	25.2	25.2	28.8	28.8
87.5°	50.4	21.6	21.6	21.6	21.6	18.0	18.0	18.0	18.0	18.0	18.0
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)