

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: P641324

Luminaire Tested: GWS-SA5F-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

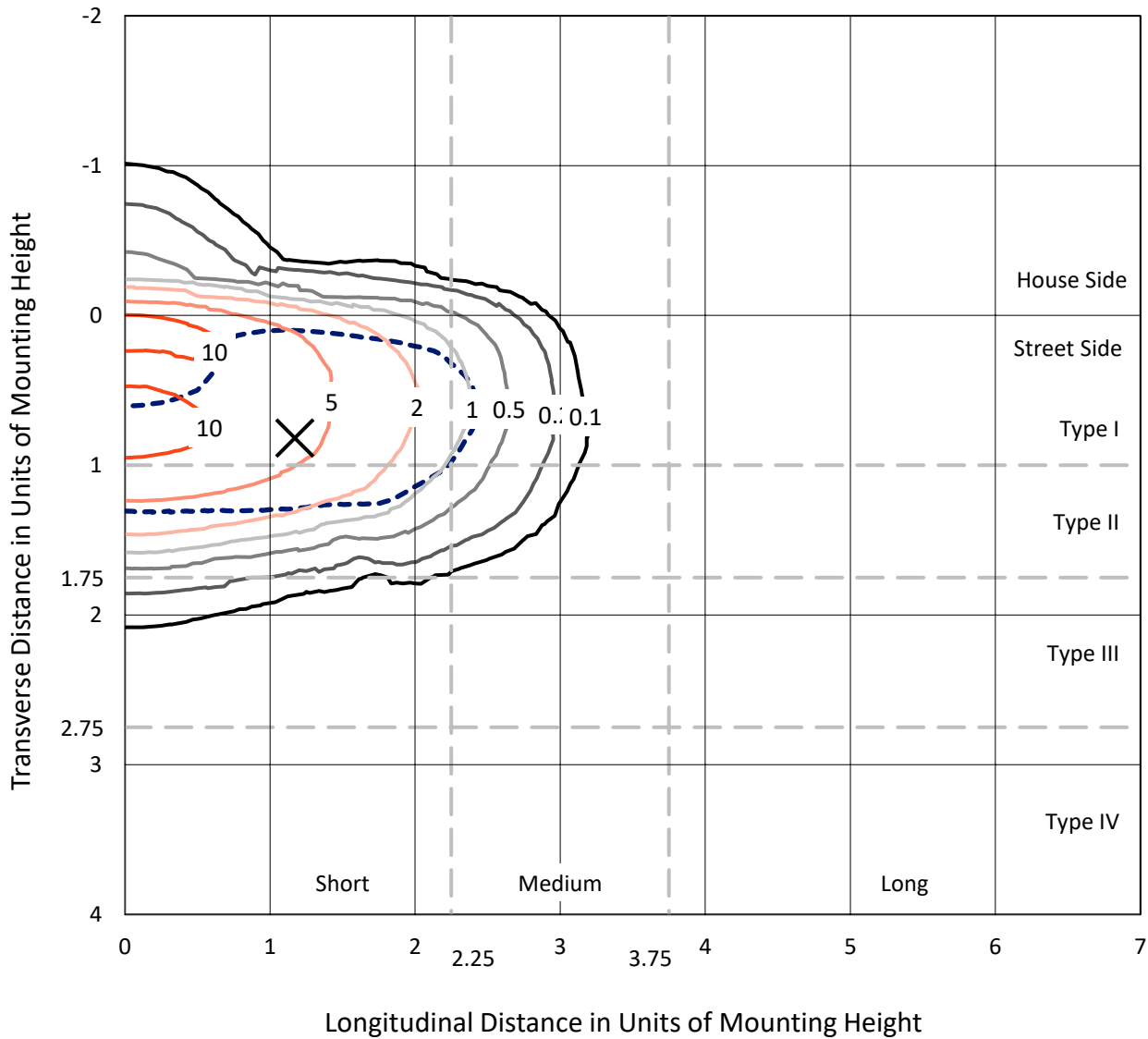
Lumens per Lamp: N/A  
Luminaire Lumens: 35313 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

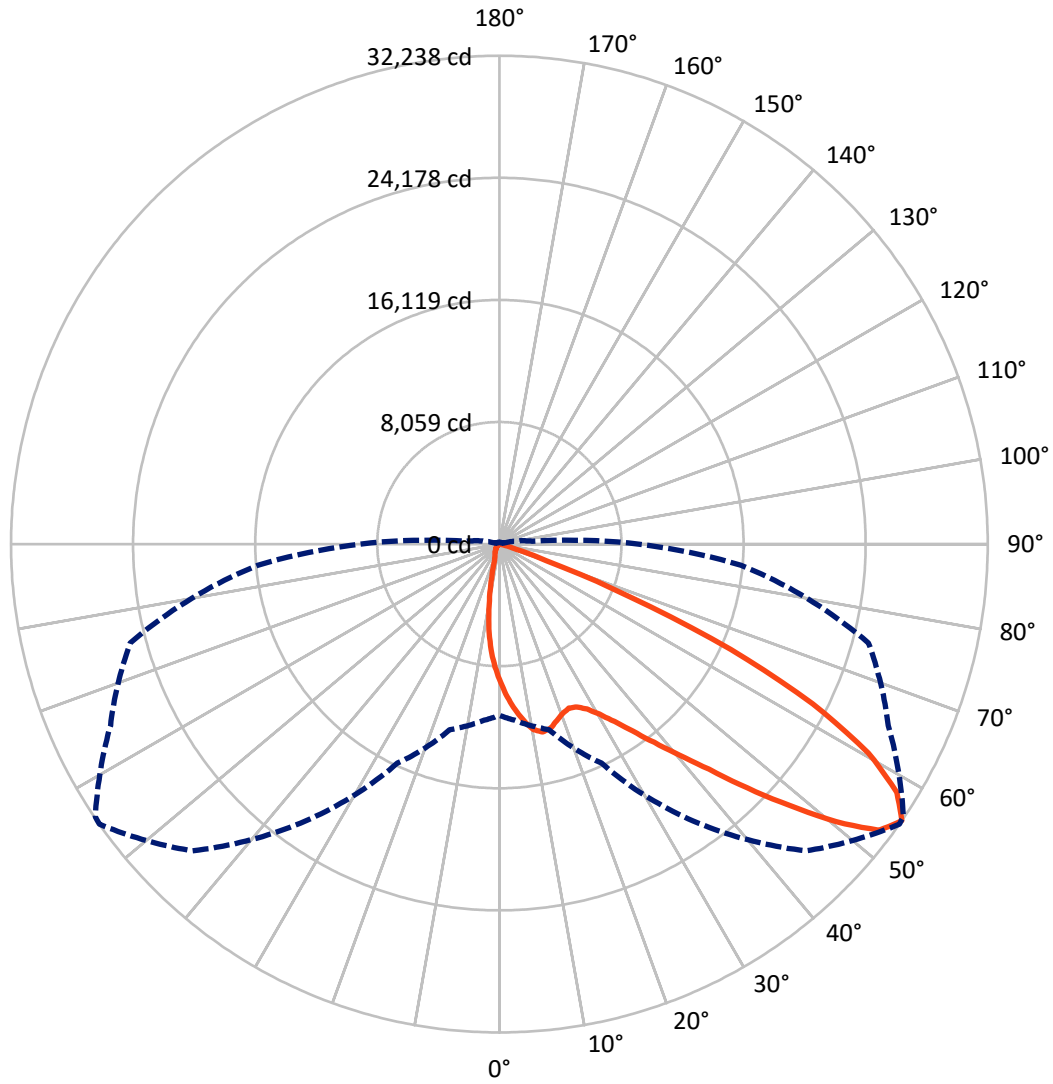
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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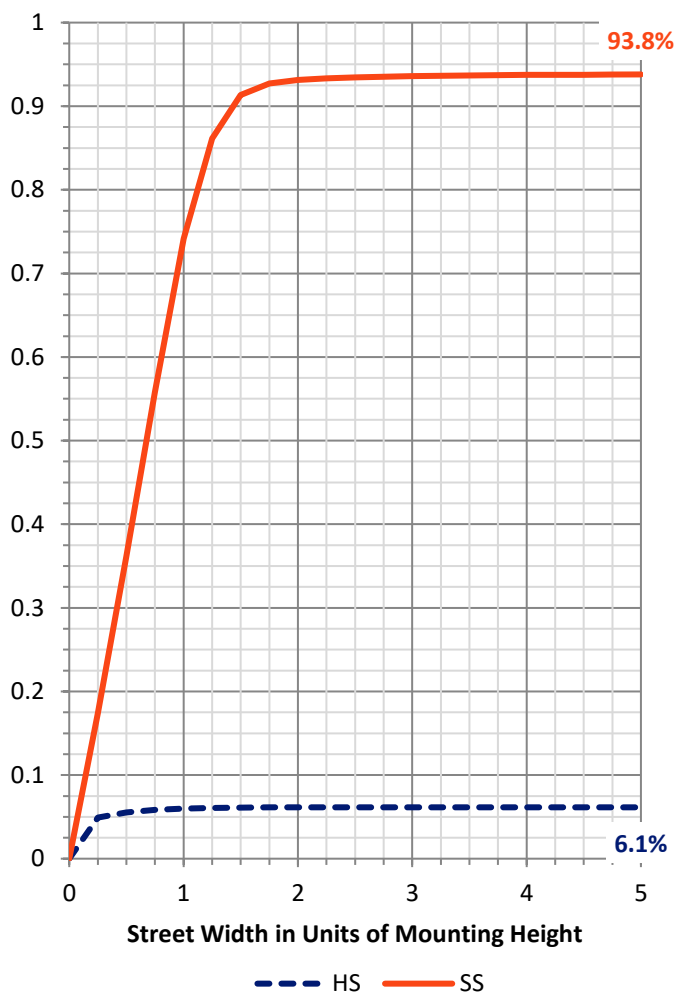
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2179.0	0.0	2179.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	33134.0	0.0	33134.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	35313.0	0.0	35313.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	806.2	2.3
10°-20°	1943.8	5.5
20°-30°	3237.1	9.2
30°-40°	5516.2	15.6
40°-50°	9004.4	25.5
50°-60°	9427.1	26.7
60°-70°	4754.8	13.5
70°-80°	600.6	1.7
80°-90°	22.8	0.1
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°	35313.0	100.0
0°-180°	35313.0	100.0

**Coefficient of Utilization**



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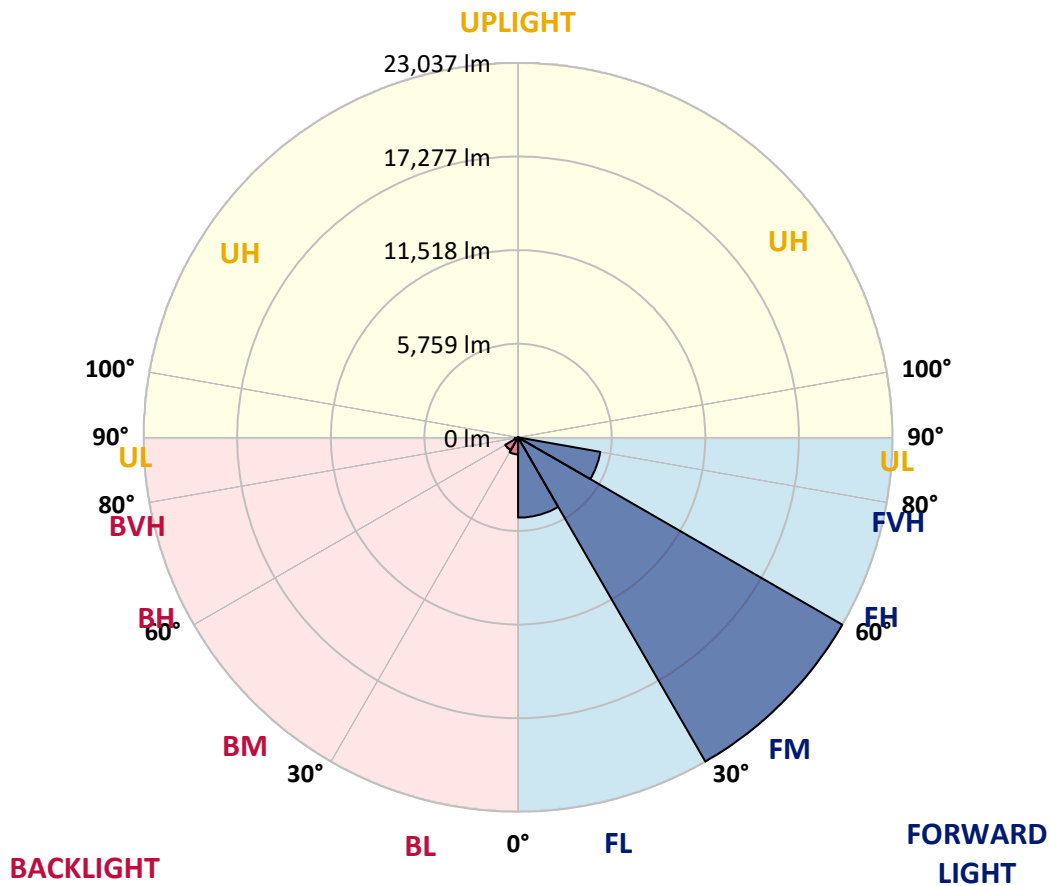
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4939.8	14.0			
FM (30°-60°)	23036.6	65.2			
FH (60°-80°)	5136.9	14.5			G3/7500
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1047.3	3.0	B3/2500		
BM (30°-60°)	911.0	2.6	B1/1000		
BH (60°-80°)	218.6	0.6	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
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°	56°	65°	75°	85°
0°	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8
2.5°	10635.2	10583.9	10662.4	10571.8	10417.9	10288.1	10119.0	10058.6	9786.9	9530.3	9282.8
5°	11927.3	11942.4	11918.2	11791.4	11574.1	11332.6	10991.4	10916.0	10442.0	9953.0	9424.7
7.5°	12247.3	12238.2	12289.5	12337.8	12301.6	12180.9	11809.5	11734.1	11145.4	10411.8	9642.0
10°	11260.1	11266.2	11371.8	11697.8	12102.4	12522.0	12464.6	12422.4	11845.8	10931.1	9883.5
12.5°	9865.4	9919.8	10031.5	10496.4	11181.6	12135.6	12727.3	12769.5	12488.8	11501.6	10167.3
15°	9261.7	9273.8	9364.3	9645.1	10155.2	11332.6	12615.6	12733.3	13026.1	12075.2	10475.2
17.5°	9246.6	9261.7	9300.9	9424.7	9756.8	10701.6	12256.3	12461.6	13430.6	12691.0	10843.5
20°	9814.1	9805.1	9777.9	9711.5	9856.4	10493.3	11924.3	12150.7	13651.0	13291.8	11214.8
22.5°	10843.5	10831.5	10710.7	10436.0	10318.3	10683.5	11761.2	11966.5	13783.8	13826.1	11519.7
25°	12029.9	12114.4	11888.0	11471.4	11181.6	11169.6	11906.1	12051.0	13898.6	14300.1	11728.0
27.5°	13331.0	13358.2	13165.0	12697.1	12277.5	11948.4	12325.8	12434.4	14025.3	14722.7	11845.8
30°	14758.9	14749.9	14529.5	13986.1	13475.9	13002.0	13032.2	13074.4	14321.2	15205.7	11975.6
32.5°	16543.0	16582.3	16189.8	15450.2	14837.4	14182.3	13955.9	13961.9	14855.5	15827.6	12171.8
35°	18967.1	18870.5	18351.3	17297.7	16253.2	15546.8	15160.4	15127.2	15679.6	16663.8	12512.9
37.5°	21276.5	21285.6	20742.2	19582.9	18263.7	17149.8	16603.4	16512.8	16838.9	17823.0	13080.5
40°	22879.5	22909.7	22683.3	22076.5	20678.8	19103.0	18300.0	18206.4	18342.2	19290.1	13823.1
42.5°	23727.8	23812.3	23875.7	24017.6	22958.0	21542.2	20307.5	20298.4	20156.5	20962.5	14683.4
45°	23761.0	23887.8	24274.2	25243.2	25364.0	24325.5	22982.1	22779.9	22233.5	22752.7	15453.2
47.5°	22447.8	22740.6	23561.7	25481.7	26749.6	27093.7	25762.4	25638.7	24105.1	24168.5	16029.8
50°	19386.7	19691.6	21204.0	24259.1	27099.8	29291.4	28814.4	28557.8	25668.8	25104.3	16307.6
52.5°	16247.2	16524.9	17551.3	21348.9	25647.7	29982.7	31386.5	31081.6	27072.6	25430.4	16192.8
55°	11305.4	11676.7	12679.0	15957.4	22302.9	28636.3	32237.8	32174.4	28325.4	25225.1	16014.7
57.5°	5542.5	5910.8	6910.0	9838.3	16521.9	25001.7	30936.7	31271.7	29074.1	25004.7	15869.8
60°	2315.4	2466.4	2810.5	4316.9	9243.6	18894.7	27999.4	28464.3	28615.2	24705.9	15854.7
62.5°	1343.4	1367.5	1403.7	1790.1	3595.4	10831.5	23226.6	23887.8	26203.2	24310.4	15616.2
65°	1014.3	1023.4	1008.3	1098.8	1485.2	4108.6	16781.5	17681.1	21871.2	22764.8	14674.4
67.5°	833.2	833.2	793.9	812.1	932.8	1539.6	9264.7	10520.5	16183.8	18710.5	12117.5
70°	664.1	679.2	661.1	637.0	667.2	851.3	3296.5	4087.5	9424.7	11048.8	7067.0
72.5°	504.1	504.1	534.3	516.2	495.1	534.3	1150.2	1292.0	3782.6	4606.7	2550.9
75°	389.4	401.5	422.6	404.5	374.3	317.0	552.4	585.6	1141.1	1071.7	570.6
77.5°	199.2	202.3	268.7	295.8	277.7	193.2	241.5	265.7	371.3	332.1	211.3
80°	120.8	126.8	150.9	232.4	184.1	102.6	99.6	105.7	175.1	150.9	87.5
82.5°	51.3	54.3	84.5	84.5	75.5	39.2	39.2	39.2	84.5	78.5	36.2
85°	0.0	0.0	15.1	12.1	12.1	15.1	15.1	15.1	21.1	30.2	18.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.1	9.1
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°	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8	9122.8
2.5°	9122.8	8929.6	8670.0	8434.5	8117.6	7939.4	7691.9	7489.6	7317.6	7263.2	7239.1
5°	9125.8	8793.8	8238.3	7682.8	7000.6	6463.2	5910.8	5473.1	5113.8	4999.1	4968.9
7.5°	9186.2	8697.2	7797.6	6789.3	5648.2	4706.3	3864.1	3109.4	2759.2	2641.4	2617.3
10°	9267.7	8615.7	7287.4	5717.6	4078.4	2867.9	2031.7	1548.6	1319.2	1192.4	1210.5
12.5°	9373.4	8549.2	6722.9	4558.4	2698.8	1575.8	1117.0	935.8	887.5	863.4	851.3
15°	9515.3	8470.8	6022.5	3408.2	1654.3	1014.3	860.4	812.1	793.9	781.9	778.9
17.5°	9660.2	8380.2	5310.1	2396.9	1098.8	842.2	772.8	748.7	736.6	727.5	724.5
20°	9814.1	8226.2	4473.9	1651.3	866.4	757.7	712.4	685.3	670.2	655.1	652.1
22.5°	9880.5	7978.7	3673.9	1156.2	769.8	697.3	640.0	606.8	588.7	576.6	576.6
25°	9817.1	7577.2	2846.7	878.5	700.4	630.9	573.6	537.3	522.3	510.2	510.2
27.5°	9648.1	7061.0	2076.9	727.5	624.9	561.5	507.2	474.0	461.9	455.8	455.8
30°	9460.9	6408.9	1464.1	624.9	540.4	489.0	443.8	422.6	419.6	413.6	413.6
32.5°	9300.9	5799.1	1008.3	549.4	477.0	425.7	395.5	386.4	389.4	383.4	386.4
35°	9213.4	5201.4	748.7	489.0	425.7	377.3	362.3	362.3	362.3	359.2	359.2
37.5°	9249.6	4612.7	609.8	446.8	380.4	344.1	329.0	335.1	341.1	341.1	341.1
40°	9430.7	4090.5	540.4	407.5	341.1	314.0	301.9	310.9	320.0	326.0	326.0
42.5°	9660.2	3667.8	489.0	374.3	314.0	283.8	277.7	286.8	295.8	301.9	301.9
45°	9805.1	3242.2	437.7	332.1	286.8	250.6	250.6	262.6	259.6	262.6	262.6
47.5°	9871.5	2904.1	386.4	286.8	244.5	217.4	220.4	226.4	220.4	226.4	226.4
50°	9708.5	2563.0	341.1	238.5	202.3	190.2	196.2	193.2	193.2	205.3	205.3
52.5°	9409.6	2309.4	301.9	202.3	172.1	169.1	175.1	163.0	166.0	166.0	163.0
55°	9189.2	2164.5	268.7	175.1	147.9	150.9	147.9	126.8	114.7	102.6	99.6
57.5°	9080.5	2107.1	244.5	157.0	132.8	132.8	120.8	87.5	66.4	51.3	45.3
60°	9056.4	2037.7	220.4	135.8	117.7	111.7	87.5	51.3	33.2	24.2	21.1
62.5°	8827.0	1868.6	199.2	108.7	102.6	90.6	54.3	30.2	18.1	12.1	9.1
65°	8075.3	1536.6	178.1	84.5	78.5	66.4	33.2	18.1	9.1	3.0	0.0
67.5°	6424.0	1089.8	157.0	63.4	54.3	42.3	21.1	12.1	3.0	0.0	0.0
70°	3704.1	588.7	129.8	45.3	36.2	27.2	15.1	6.0	0.0	0.0	0.0
72.5°	1237.7	274.7	99.6	30.2	27.2	21.1	9.1	3.0	0.0	0.0	0.0
75°	271.7	163.0	66.4	21.1	18.1	15.1	6.0	0.0	0.0	0.0	0.0
77.5°	102.6	114.7	33.2	15.1	12.1	9.1	3.0	0.0	0.0	0.0	0.0
80°	39.2	75.5	15.1	9.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.1	30.2	9.1	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.1	15.1	6.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	3.0	3.0	0.0	0.0	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)