

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: P643660

Luminaire Tested: GWS-SA6F-735-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-735-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

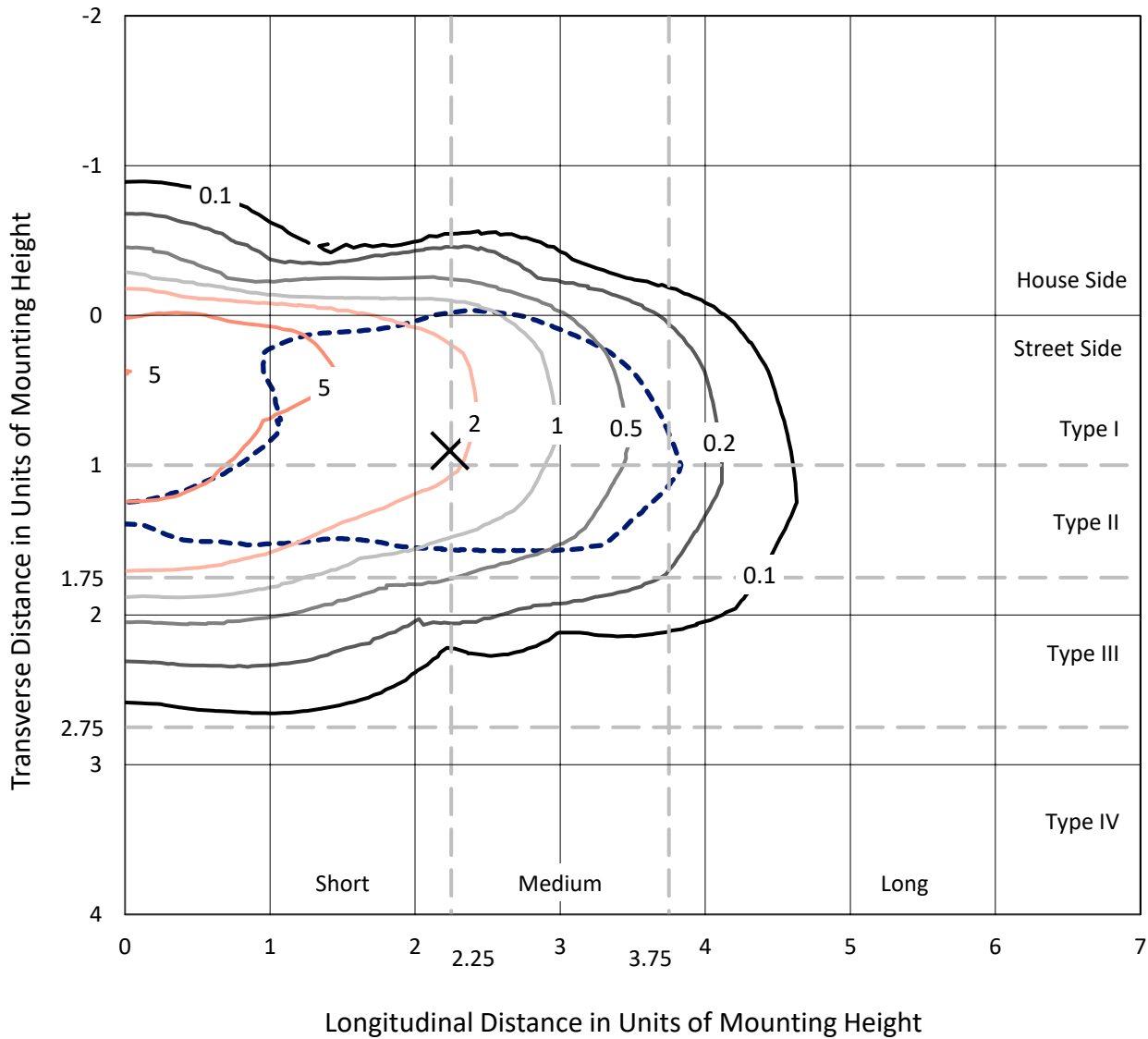
Lumens per Lamp: N/A  
Luminaire Lumens: 36769.8 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

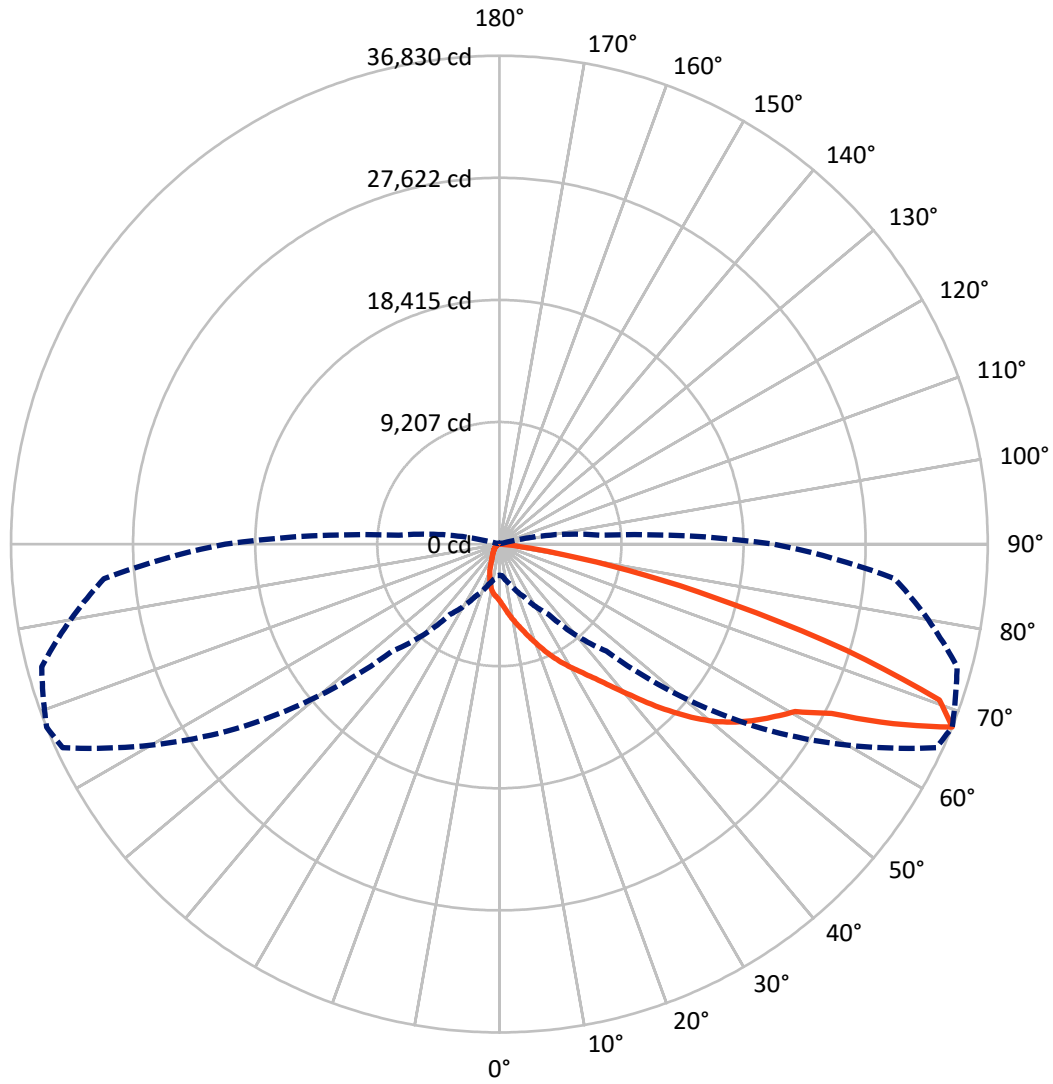
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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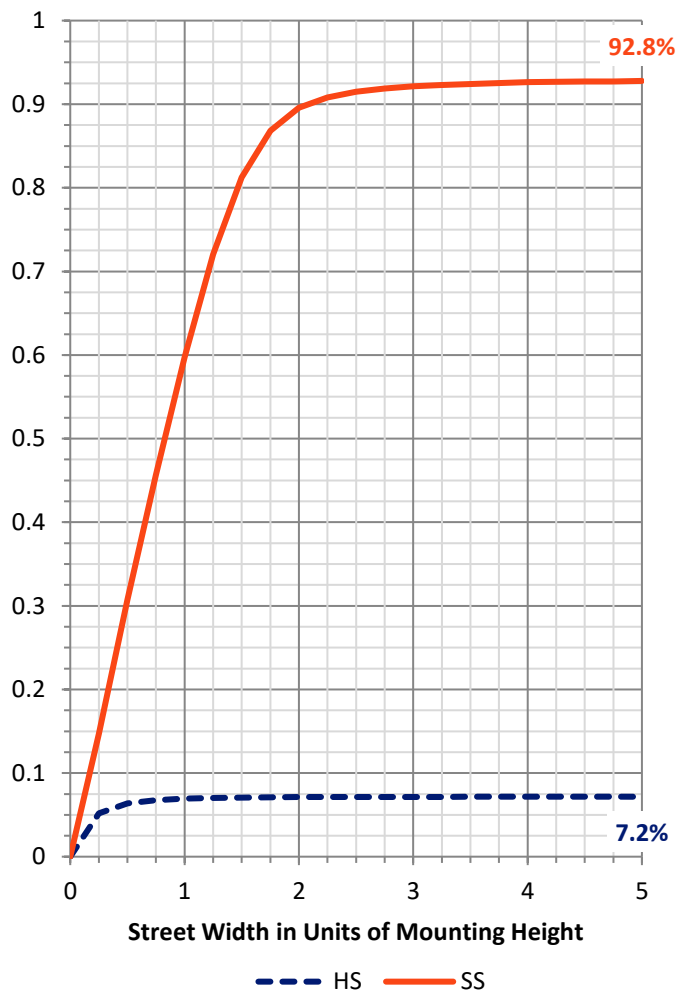
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2655.2	0.0	2655.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	34114.6	0.0	34114.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	36769.8	0.0	36769.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.3	1.1
10°-20°	1198.5	3.3
20°-30°	2059.6	5.6
30°-40°	3580.8	9.7
40°-50°	6248.2	17.0
50°-60°	9423.9	25.6
60°-70°	9449.7	25.7
70°-80°	4169.2	11.3
80°-90°	222.7	0.6
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°	36769.8	100.0
0°-180°	36769.8	100.0

**Coefficient of Utilization**



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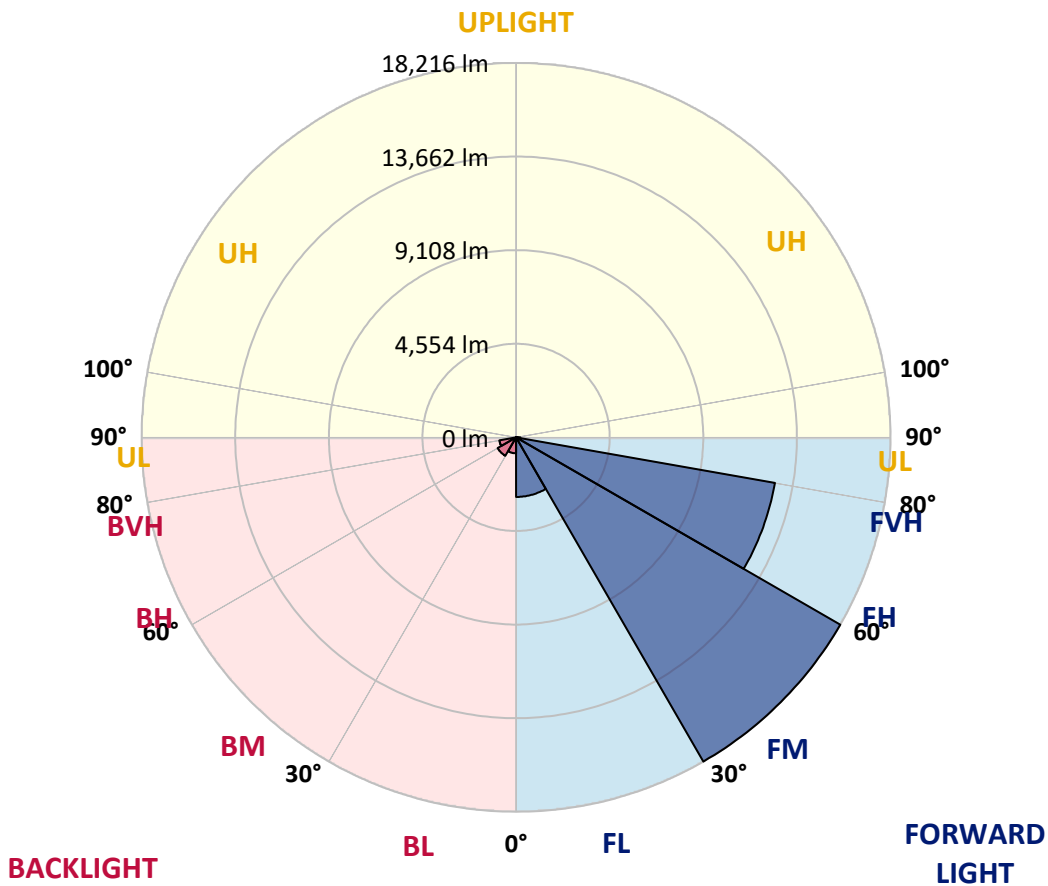
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2898.6	7.9			
FM (30°-60°)	18215.7	49.5			
FH (60°-80°)	12790.2	34.8			G5
FVH (80°-90°)	210.1	0.6			G2/225
BL (0°-30°)	776.8	2.1	B2/1000		
BM (30°-60°)	1037.2	2.8	B2/2500		
BH (60°-80°)	828.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	12.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1
2.5°	4982.9	5014.5	4982.9	4989.9	4898.4	4856.2	4764.7	4638.0	4606.3	4525.4	4402.2
5°	5591.6	5619.8	5588.1	5581.1	5475.5	5398.1	5246.8	5028.6	4965.3	4806.9	4564.1
7.5°	5922.4	5940.0	5950.6	5968.2	5929.5	5866.1	5728.9	5457.9	5391.1	5134.2	4792.8
10°	5957.6	5971.7	6024.5	6130.0	6207.5	6246.2	6168.8	5918.9	5813.3	5563.5	5074.4
12.5°	5859.1	5880.2	5964.7	6140.6	6355.3	6552.3	6601.6	6383.4	6288.4	5968.2	5405.1
15°	5728.9	5746.5	5862.6	6101.9	6425.6	6788.1	6992.2	6897.2	6791.6	6457.3	5771.1
17.5°	5528.3	5552.9	5714.8	6038.6	6457.3	6974.6	7414.5	7446.1	7372.2	7009.8	6175.8
20°	5415.7	5433.3	5577.6	5911.9	6436.2	7111.8	7808.6	8107.7	8026.8	7646.7	6640.3
22.5°	5510.7	5524.8	5619.8	5880.2	6365.8	7189.3	8174.6	8769.3	8723.5	8329.4	7129.4
25°	6010.4	6056.2	5999.8	6045.6	6397.5	7231.5	8470.2	9430.8	9441.4	9043.8	7636.2
27.5°	7023.9	6964.0	6830.3	6601.6	6643.8	7344.1	8723.5	10053.7	10145.2	9740.5	8086.6
30°	8054.9	8019.7	7938.8	7583.4	7287.8	7593.9	8938.2	10690.6	10834.9	10426.7	8487.8
32.5°	9212.7	9247.9	9103.6	8677.8	8174.6	8100.7	9159.9	11295.9	11566.9	11204.4	8959.3
35°	10595.6	10606.2	10321.1	9849.6	9279.5	8938.2	9557.5	11964.5	12464.2	12196.8	9589.2
37.5°	11943.4	12006.7	11851.9	11109.4	10602.7	9979.8	10215.6	12823.1	13526.9	13421.4	10381.0
40°	13136.3	13234.9	13185.6	12467.7	11802.6	11278.3	11236.1	13829.6	14811.4	14931.0	11426.1
42.5°	14086.4	14149.8	14188.5	13678.2	13090.6	12795.0	12495.9	14997.9	16328.0	16817.2	12707.0
45°	15089.4	15110.5	15191.4	14846.5	14332.8	14357.4	13984.4	16416.0	17925.6	18907.4	14177.9
47.5°	16366.7	16437.1	16398.4	16036.0	15571.5	15849.4	15522.2	17876.4	19502.1	21138.5	15684.1
50°	17922.1	17996.0	17960.8	17538.6	17021.3	17137.4	16933.3	19294.5	21022.3	23242.8	16936.8
52.5°	18724.4	18784.3	19220.6	19410.6	19139.7	18400.7	18136.8	20853.4	22306.8	24974.1	18087.5
55°	18337.4	18379.6	19329.7	20132.0	21124.4	20385.4	19347.3	22056.9	23439.9	26325.4	18942.6
57.5°	16732.7	16961.4	18252.9	19611.2	21698.0	22345.5	21310.9	23366.0	24530.8	27265.0	19783.7
60°	13442.5	13431.9	15282.9	17721.5	20578.9	22883.9	24083.8	25136.0	25625.2	27986.4	20909.7
62.5°	7428.5	7495.4	9958.7	13171.5	17468.2	21490.4	26163.6	28194.0	28120.1	29246.2	22672.7
65°	3698.4	3832.2	5169.4	7544.7	11623.2	17760.3	26522.5	32860.2	32649.0	32212.7	26314.9
67.5°	2347.2	2399.9	3138.9	4384.6	6460.8	11415.5	24287.9	36340.4	36829.6	35731.6	29928.9
70°	1520.2	1608.2	2181.8	2998.2	3899.0	5883.7	17791.9	34084.8	35207.3	35344.6	27676.7
72.5°	827.0	890.3	1393.5	2139.5	2815.2	2941.9	9993.9	25579.4	27384.6	29981.6	21652.2
75°	471.5	517.3	763.6	1453.3	2065.6	1791.2	4430.4	17123.3	18274.0	21427.0	15515.1
77.5°	285.0	323.7	429.3	707.3	1295.0	1196.5	1675.0	10423.2	11155.1	12784.4	8142.9
80°	130.2	154.8	271.0	390.6	707.3	566.6	640.5	4859.7	5018.1	5246.8	2695.5
82.5°	59.8	70.4	123.2	232.3	401.2	327.3	246.3	1122.6	1580.0	1495.6	686.2
85°	7.0	7.0	45.7	95.0	112.6	84.5	102.1	253.4	320.2	450.4	197.1
87.5°	0.0	0.0	3.5	3.5	7.0	10.6	21.1	31.7	45.7	73.9	49.3
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°	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1	4279.1
2.5°	4345.9	4247.4	4159.4	4029.2	3941.2	3842.7	3775.9	3694.9	3663.2	3638.6	3603.4
5°	4444.5	4286.1	4071.5	3832.2	3635.1	3448.6	3276.2	3163.6	3065.0	3050.9	3001.7
7.5°	4606.3	4370.6	4008.1	3617.5	3283.2	2973.5	2730.7	2533.7	2435.1	2403.5	2347.2
10°	4821.0	4497.2	3913.1	3314.9	2832.8	2463.3	2188.8	1967.1	1812.3	1756.0	1713.7
12.5°	5060.3	4613.4	3761.8	2941.9	2392.9	1970.6	1622.2	1386.5	1287.9	1252.8	1221.1
15°	5334.8	4722.5	3522.5	2568.8	1963.6	1449.8	1203.5	1101.4	1059.2	1048.7	1038.1
17.5°	5598.7	4792.8	3237.5	2181.8	1509.6	1126.1	1009.9	971.2	960.7	950.1	943.1
20°	5897.8	4842.1	2903.2	1815.8	1171.8	953.6	897.3	869.2	848.1	827.0	823.4
22.5°	6203.9	4842.1	2540.7	1456.9	981.8	855.1	791.8	739.0	700.3	679.2	672.1
25°	6496.0	4775.2	2181.8	1164.8	865.7	760.1	679.2	619.3	566.6	541.9	534.9
27.5°	6703.6	4602.8	1868.6	985.3	784.7	675.6	577.1	510.3	468.0	443.4	439.9
30°	6833.8	4345.9	1580.0	879.7	714.4	587.7	489.1	432.8	401.2	383.6	376.5
32.5°	6932.4	4029.2	1323.1	805.8	647.5	510.3	425.8	380.0	351.9	337.8	334.3
35°	7129.4	3730.1	1133.1	739.0	577.1	446.9	373.0	337.8	316.7	299.1	295.6
37.5°	7403.9	3480.3	981.8	679.2	510.3	397.6	337.8	306.2	288.6	271.0	267.4
40°	7808.6	3321.9	869.2	619.3	450.4	358.9	309.7	281.5	256.9	239.3	235.8
42.5°	8431.5	3248.0	795.3	559.5	397.6	323.7	285.0	249.8	225.2	207.6	204.1
45°	9174.0	3286.7	731.9	499.7	362.5	299.1	253.4	218.2	193.5	175.9	172.4
47.5°	9969.2	3424.0	679.2	443.4	327.3	274.5	225.2	186.5	165.4	147.8	144.3
50°	10799.7	3649.2	633.4	390.6	299.1	246.3	193.5	161.9	140.8	126.7	123.2
52.5°	11521.1	3955.3	587.7	351.9	274.5	218.2	168.9	140.8	119.6	105.6	102.1
55°	12210.8	4243.9	552.5	316.7	246.3	190.0	147.8	119.6	102.1	88.0	84.5
57.5°	12960.4	4550.0	510.3	285.0	221.7	168.9	130.2	102.1	88.0	73.9	70.4
60°	14051.3	5004.0	446.9	260.4	193.5	147.8	112.6	91.5	77.4	59.8	56.3
62.5°	15624.2	5830.9	376.5	225.2	165.4	126.7	95.0	77.4	63.3	49.3	42.2
65°	18566.1	7238.5	309.7	186.5	133.7	105.6	80.9	63.3	49.3	35.2	31.7
67.5°	20684.5	7604.5	249.8	151.3	109.1	80.9	66.9	49.3	35.2	24.6	21.1
70°	18084.0	5461.4	193.5	123.2	91.5	63.3	52.8	38.7	24.6	17.6	14.1
72.5°	13625.5	3568.2	144.3	95.0	70.4	52.8	38.7	31.7	21.1	14.1	10.6
75°	9603.3	2062.1	105.6	70.4	49.3	38.7	31.7	24.6	17.6	10.6	10.6
77.5°	4923.0	851.6	73.9	49.3	35.2	24.6	21.1	14.1	14.1	10.6	7.0
80°	1495.6	281.5	42.2	31.7	24.6	17.6	10.6	10.6	10.6	7.0	3.5
82.5°	341.3	91.5	24.6	24.6	17.6	14.1	10.6	3.5	3.5	0.0	0.0
85°	88.0	28.2	21.1	17.6	17.6	14.1	7.0	3.5	0.0	0.0	0.0
87.5°	31.7	17.6	17.6	17.6	14.1	10.6	7.0	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)