

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: P638746

Luminaire Tested: GWS-SA4F-740-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

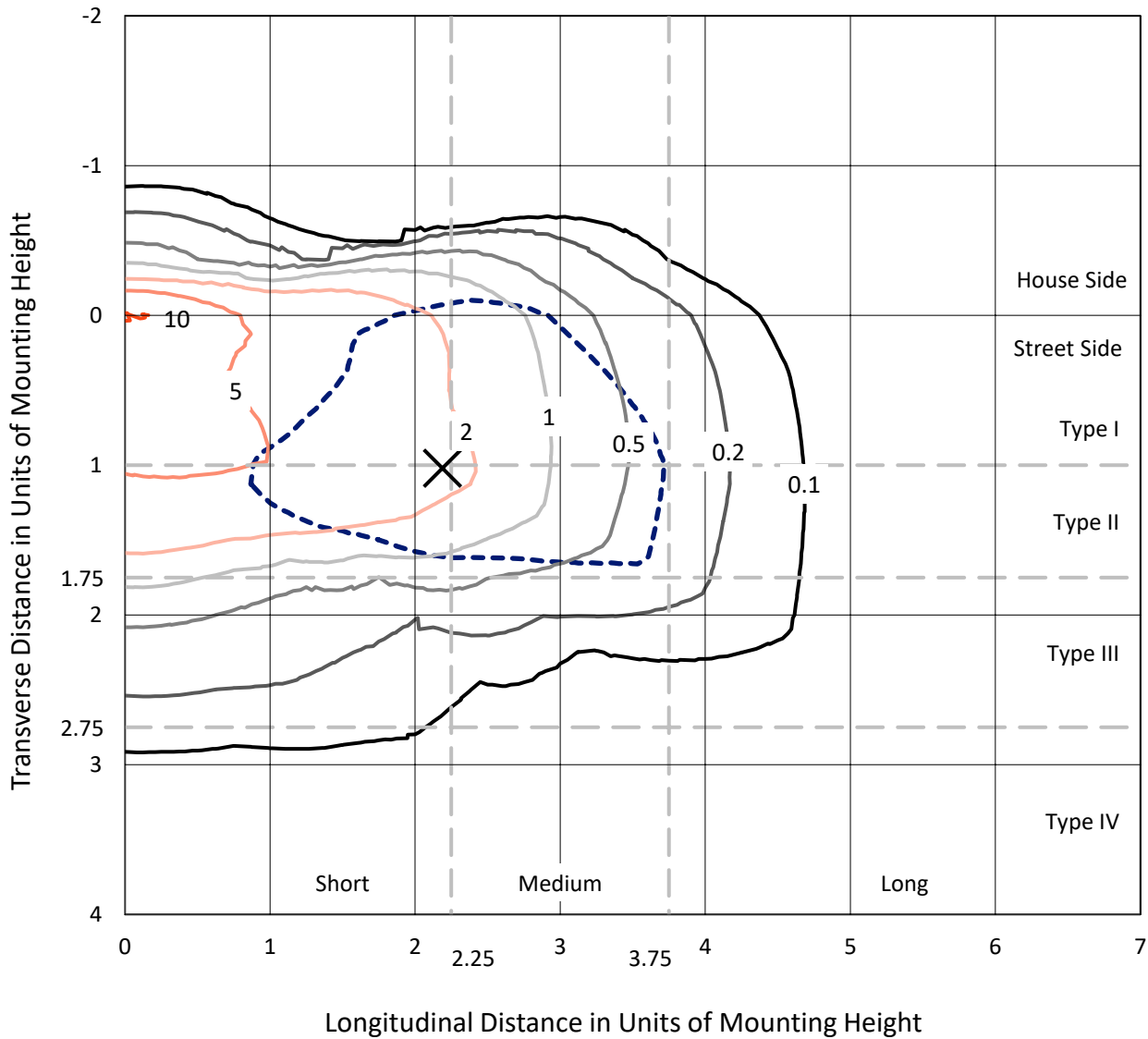
Lumens per Lamp: N/A  
Luminaire Lumens: 26971.8 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

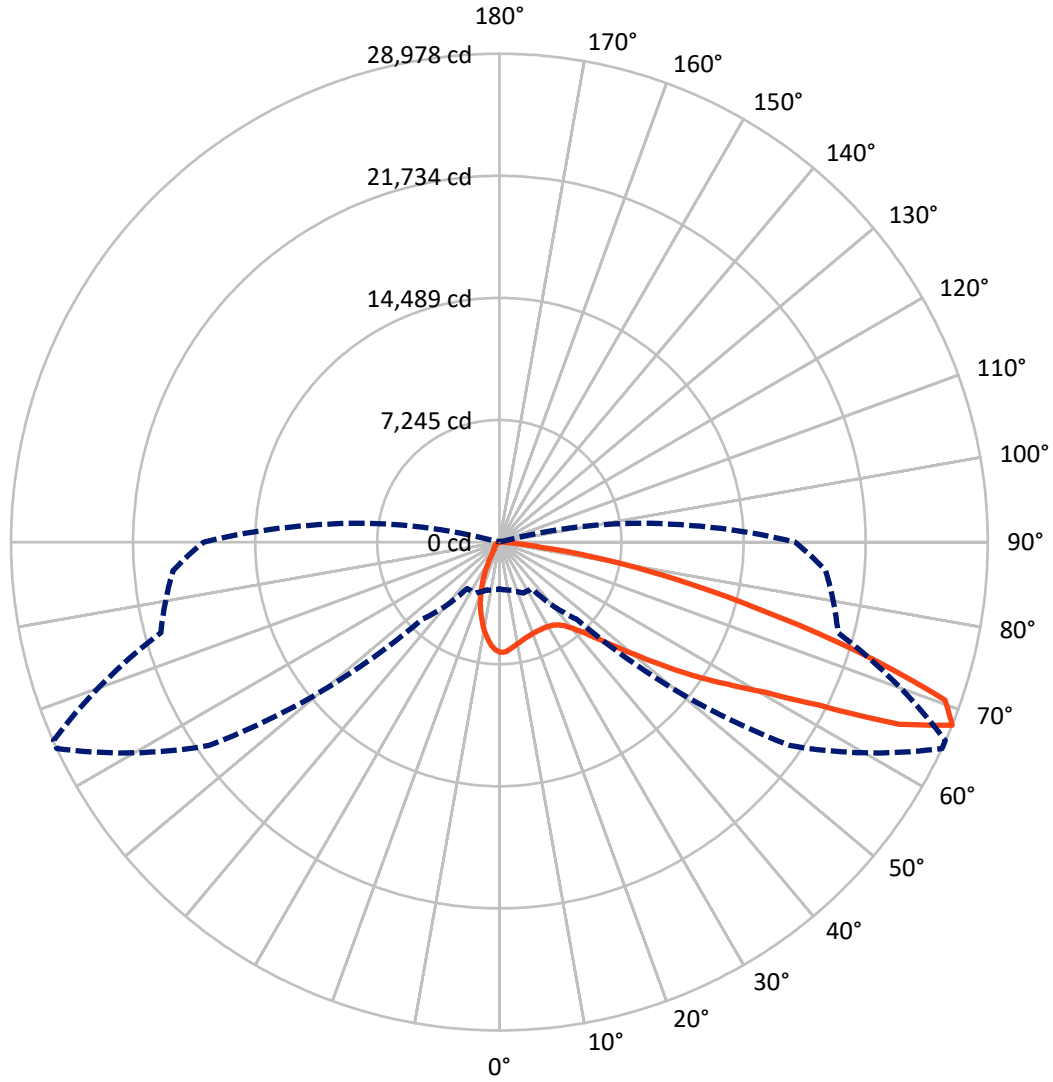
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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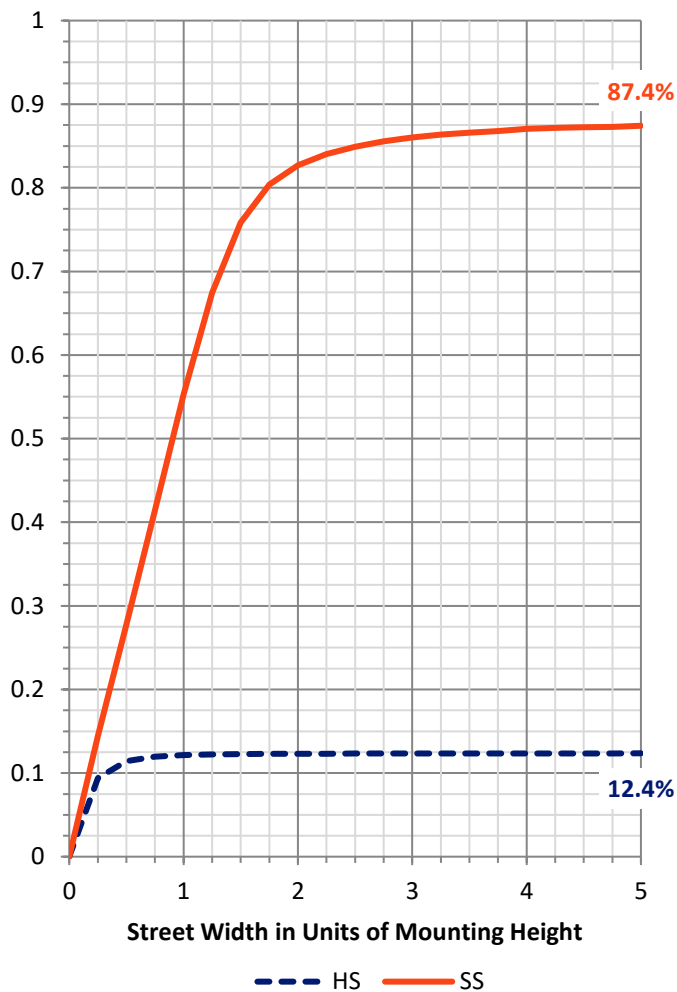
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3368.0	0.0	3368.0
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	23603.8	0.0	23603.8
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	26971.8	0.0	26971.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.3	2.0
10°-20°	1221.3	4.5
20°-30°	1745.2	6.5
30°-40°	2539.0	9.4
40°-50°	3976.6	14.7
50°-60°	6203.6	23.0
60°-70°	6814.3	25.3
70°-80°	3626.5	13.4
80°-90°	301.9	1.1
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°	26971.8	100.0
0°-180°	26971.8	100.0

**Coefficient of Utilization**



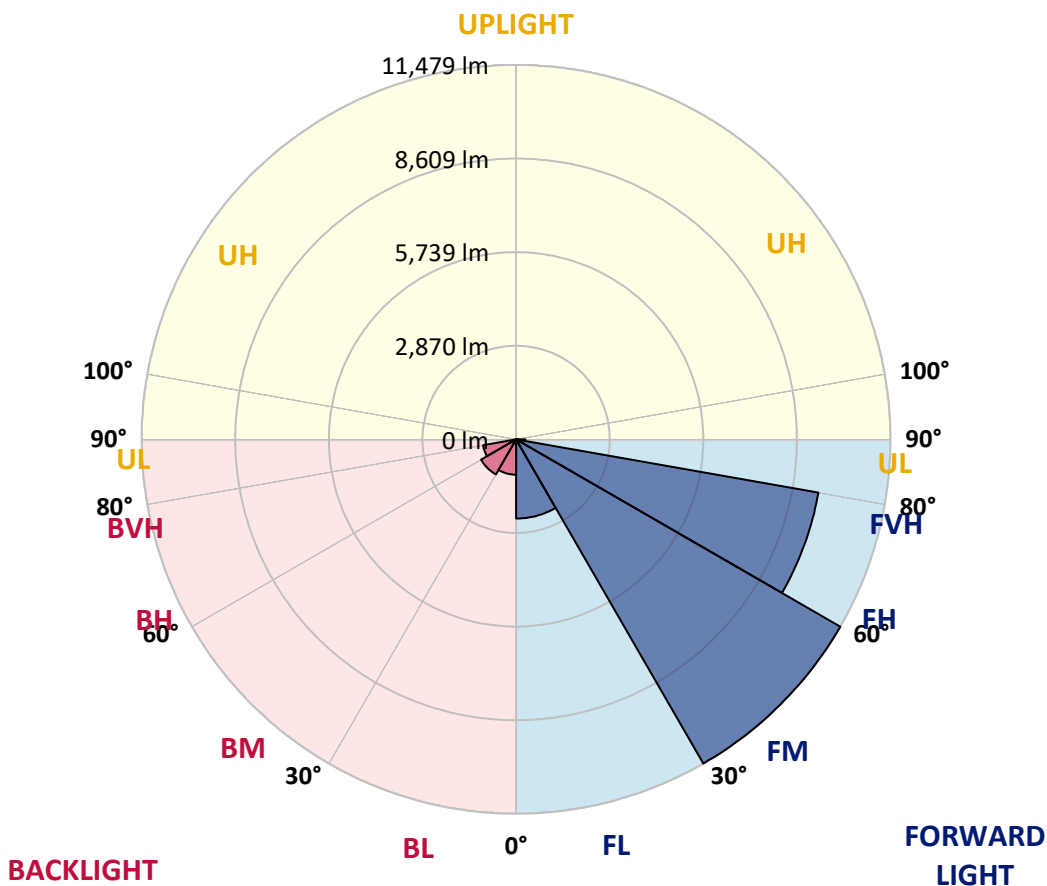
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2427.3	9.0			
FM (30°-60°)	11478.6	42.6			
FH (60°-80°)	9412.1	34.9			G4/12000
FVH (80°-90°)	285.8	1.1			G3/500
BL (0°-30°)	1082.5	4.0	B3/2500		
BM (30°-60°)	1240.6	4.6	B2/2500		
BH (60°-80°)	1028.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.2	0.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5
2.5°	6314.7	6334.2	6307.4	6373.2	6385.4	6458.6	6500.0	6529.3	6526.9	6563.5	6563.5
5°	5943.9	5963.5	5948.8	6019.6	6075.7	6190.3	6285.4	6395.2	6400.0	6512.2	6553.7
7.5°	5629.3	5631.7	5631.7	5719.6	5792.7	5934.2	6075.7	6243.9	6263.5	6436.6	6546.4
10°	5370.8	5378.1	5380.5	5480.5	5561.0	5731.7	5912.2	6114.7	6136.6	6370.8	6541.5
12.5°	5192.7	5195.2	5204.9	5309.8	5397.6	5575.7	5758.6	5990.3	6019.6	6295.2	6519.6
15°	5107.4	5102.5	5107.4	5195.2	5283.0	5453.7	5641.5	5890.3	5922.0	6231.8	6522.0
17.5°	5102.5	5095.2	5090.3	5156.1	5212.2	5363.5	5553.7	5824.4	5858.6	6202.5	6548.8
20°	5173.2	5168.3	5143.9	5173.2	5185.4	5309.8	5497.6	5773.2	5807.4	6197.6	6607.4
22.5°	5358.6	5346.4	5309.8	5283.0	5217.1	5290.3	5458.6	5736.6	5775.7	6209.8	6683.0
25°	5634.2	5629.3	5583.0	5517.1	5348.8	5319.6	5461.0	5736.6	5773.2	6224.4	6763.5
27.5°	6048.8	6019.6	5961.0	5846.4	5604.9	5434.2	5509.8	5751.3	5787.8	6243.9	6829.3
30°	6470.8	6468.3	6448.8	6331.8	5973.2	5653.7	5612.2	5790.3	5824.4	6261.0	6890.3
32.5°	6907.4	6914.7	6963.5	6873.2	6480.5	5980.5	5797.6	5870.8	5895.2	6295.2	6944.0
35°	7322.0	7336.6	7465.9	7497.6	7097.6	6475.7	6100.0	6031.8	6034.2	6370.8	7014.7
37.5°	7719.6	7768.3	7975.7	8129.3	7865.9	7075.7	6536.6	6304.9	6285.4	6522.0	7122.0
40°	8170.8	8263.5	8524.5	8785.4	8702.5	7868.4	7131.8	6724.4	6683.0	6800.0	7314.7
42.5°	8670.8	8770.8	9117.1	9483.0	9522.0	8826.9	7875.7	7336.6	7265.9	7268.3	7675.7
45°	9207.4	9341.5	9744.0	10270.8	10507.4	9895.2	8792.7	8163.5	8092.7	7987.9	8256.2
47.5°	9912.3	10029.3	10417.1	11024.5	11478.1	11041.5	9995.2	9226.9	9097.6	8944.0	9158.6
50°	10519.6	10622.0	10956.2	11717.2	12661.1	12519.6	11358.6	10556.2	10431.8	10170.8	10348.9
52.5°	10653.7	10734.2	11041.5	11897.6	13566.0	14385.5	13029.4	12163.5	12075.7	11592.8	11661.1
55°	10051.3	10173.2	10448.9	11400.1	13802.5	16209.9	15197.7	13975.7	13792.8	13022.0	13144.0
57.5°	8529.3	8746.4	9004.9	10241.5	13161.1	17180.6	18227.0	15895.2	15729.4	14397.7	14400.1
60°	6251.3	6426.9	6600.0	7731.8	11639.1	17114.8	20975.8	18051.4	17748.9	15522.1	15480.6
62.5°	4546.4	4636.6	4634.2	5036.6	7992.7	15987.9	22419.7	21300.2	20595.3	16724.5	16487.9
65°	3575.6	3573.2	3678.1	3809.8	4463.4	12341.6	22597.7	26044.1	25283.1	18336.7	17844.0
67.5°	2782.9	2836.6	2941.5	3329.3	3353.7	6458.6	21031.9	28978.3	28963.6	20797.7	19431.8
70°	2146.4	2219.5	2368.3	2934.2	3097.6	3614.7	15736.7	28049.0	28285.6	21897.7	18307.5
72.5°	1378.1	1373.2	1592.7	2370.7	2975.6	3012.2	8702.5	22280.7	22548.9	19834.3	14802.5
75°	770.7	775.6	900.0	1451.2	2773.2	2834.2	4309.8	15887.9	16100.1	15463.5	11373.3
77.5°	302.4	312.2	422.0	763.4	1829.3	2531.7	2561.0	10834.2	10865.9	9583.0	6975.7
80°	122.0	129.3	214.6	473.2	1114.6	1704.9	1829.3	6383.0	6253.7	3709.8	2029.3
82.5°	36.6	39.0	85.4	268.3	582.9	1212.2	1234.2	2448.8	2312.2	797.6	517.1
85°	2.4	2.4	19.5	82.9	207.3	304.9	822.0	797.6	707.3	200.0	229.3
87.5°	0.0	0.0	2.4	2.4	4.9	9.8	87.8	146.3	148.8	36.6	102.4
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°	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5	6541.5
2.5°	6563.5	6475.7	6468.3	6400.0	6331.8	6246.4	6146.4	6073.2	6022.0	5931.8	5914.7
5°	6553.7	6436.6	6326.9	6131.8	5914.7	5680.5	5475.6	5285.4	5165.9	5085.4	5051.3
7.5°	6534.2	6385.4	6131.8	5763.5	5400.0	4990.3	4670.8	4378.1	4178.1	4061.0	4009.8
10°	6519.6	6319.6	5907.4	5348.8	4785.4	4219.5	3734.2	3300.0	3058.6	2868.3	2836.6
12.5°	6490.3	6224.4	5619.6	4863.5	4136.6	3385.4	2765.9	2234.2	1865.9	1700.0	1641.5
15°	6461.0	6124.4	5331.7	4351.3	3429.3	2502.5	1751.2	1239.0	985.4	907.3	902.4
17.5°	6456.1	6034.2	5019.5	3865.9	2687.8	1639.0	997.6	802.4	748.8	729.3	729.3
20°	6470.8	5958.6	4712.2	3307.3	1958.6	997.6	743.9	695.1	663.4	646.3	646.3
22.5°	6485.4	5880.5	4417.1	2743.9	1300.0	729.3	656.1	614.6	578.1	558.5	548.8
25°	6495.2	5795.2	4090.3	2178.1	848.8	634.2	575.6	522.0	478.1	453.7	453.7
27.5°	6492.7	5692.7	3761.0	1624.4	658.5	563.4	492.7	436.6	392.7	365.9	368.3
30°	6473.2	5580.5	3419.5	1134.2	575.6	492.7	422.0	363.4	319.5	297.6	295.1
32.5°	6458.6	5461.0	3024.4	797.6	517.1	431.7	358.5	302.4	265.9	248.8	246.3
35°	6441.5	5343.9	2648.8	607.3	465.9	373.2	302.4	256.1	226.8	212.2	212.2
37.5°	6446.4	5222.0	2241.5	522.0	414.6	324.4	258.5	219.5	195.1	180.5	178.1
40°	6522.0	5148.8	1841.5	473.2	368.3	280.5	224.4	190.2	165.9	151.2	148.8
42.5°	6709.8	5151.3	1458.5	436.6	326.8	239.0	195.1	163.4	141.5	124.4	122.0
45°	7085.4	5253.7	1119.5	397.6	282.9	207.3	168.3	139.0	117.1	102.4	100.0
47.5°	7700.1	5558.6	848.8	363.4	246.3	180.5	143.9	117.1	97.6	85.4	82.9
50°	8678.1	6109.8	668.3	322.0	207.3	156.1	122.0	97.6	80.5	68.3	65.9
52.5°	9853.7	6936.6	573.2	285.4	178.1	136.6	104.9	80.5	65.9	56.1	53.7
55°	11205.0	7924.4	529.3	248.8	151.2	117.1	85.4	65.9	53.7	46.3	41.5
57.5°	12444.0	8814.7	526.8	212.2	129.3	100.0	70.7	56.1	46.3	36.6	34.1
60°	13651.3	9558.6	495.1	175.6	112.2	82.9	61.0	46.3	39.0	31.7	29.3
62.5°	14746.4	10163.5	414.6	141.5	95.1	68.3	51.2	41.5	34.1	26.8	26.8
65°	16122.1	10934.2	317.1	114.6	78.0	56.1	43.9	36.6	31.7	24.4	24.4
67.5°	17544.0	11341.5	226.8	95.1	63.4	48.8	39.0	34.1	26.8	22.0	22.0
70°	15890.4	9583.0	163.4	78.0	53.7	41.5	34.1	31.7	26.8	22.0	19.5
72.5°	12409.8	6909.8	122.0	61.0	46.3	39.0	31.7	29.3	24.4	19.5	19.5
75°	9202.5	4029.3	92.7	48.8	36.6	31.7	31.7	29.3	24.4	19.5	17.1
77.5°	5002.5	1404.9	70.7	39.0	29.3	24.4	26.8	26.8	22.0	17.1	14.6
80°	1324.4	385.4	48.8	29.3	24.4	19.5	19.5	24.4	19.5	14.6	14.6
82.5°	385.4	112.2	34.1	24.4	19.5	17.1	17.1	17.1	14.6	12.2	9.8
85°	187.8	41.5	24.4	19.5	17.1	14.6	12.2	12.2	9.8	7.3	7.3
87.5°	82.9	17.1	19.5	17.1	17.1	12.2	9.8	7.3	7.3	4.9	2.4
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)