

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: P638750

Luminaire Tested: GWS-SA4F-740-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

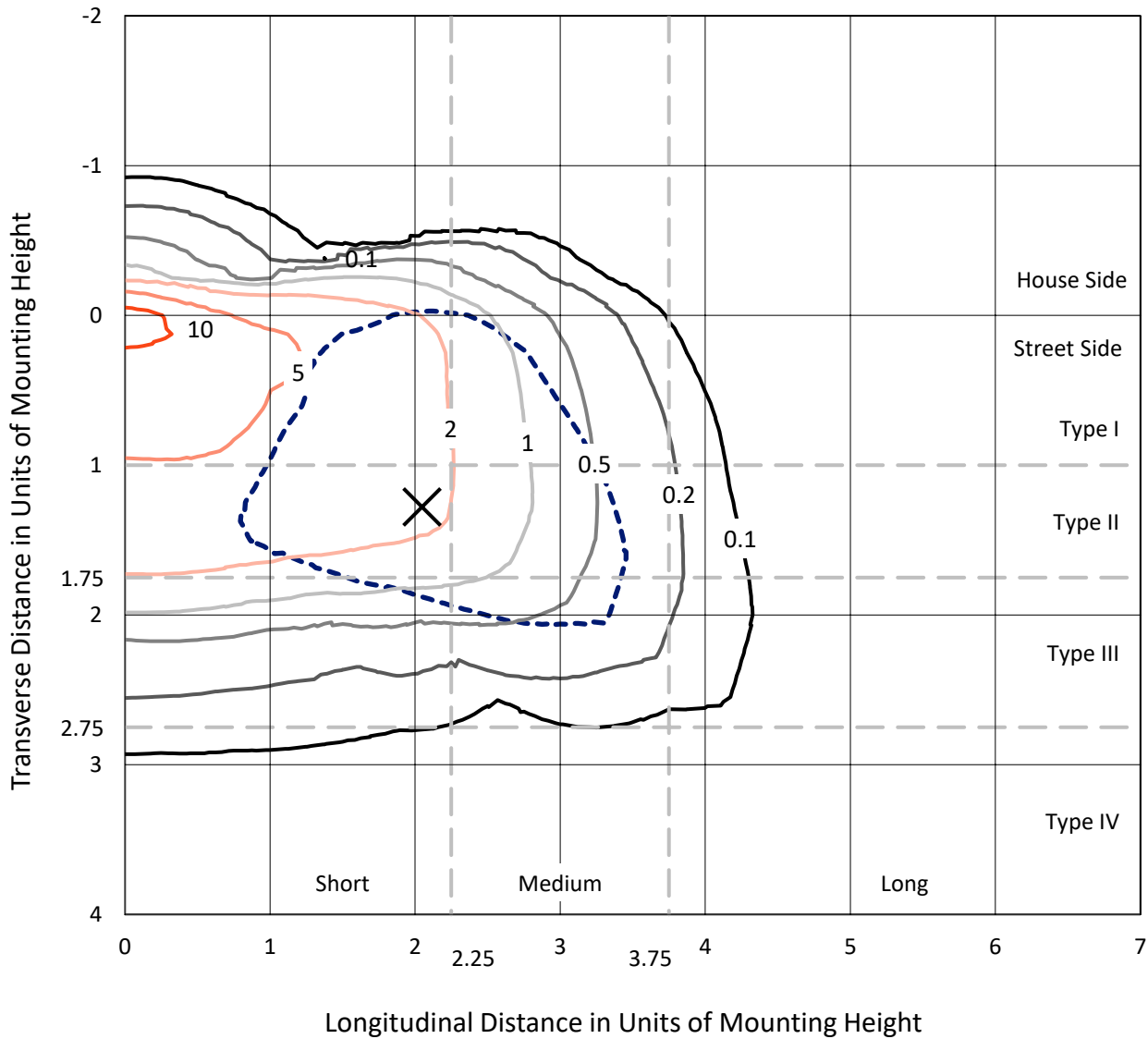
Lumens per Lamp: N/A  
Luminaire Lumens: 27557.2 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

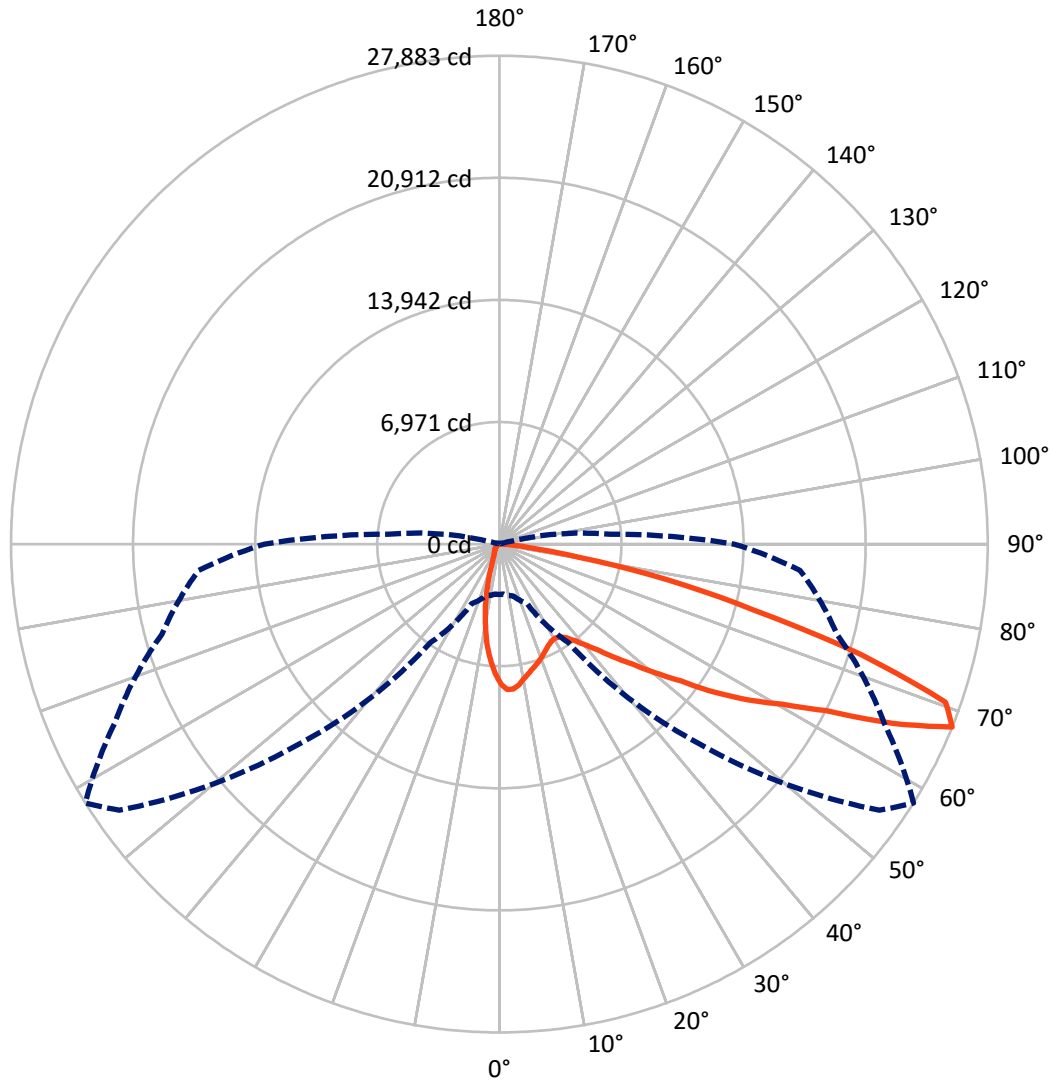
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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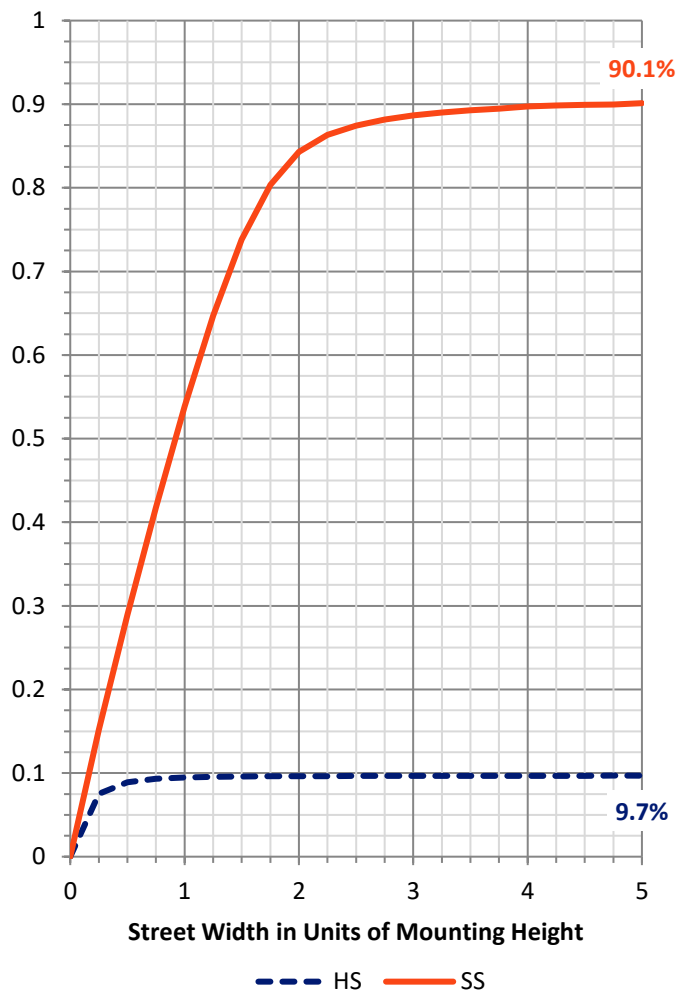
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2692.2	0.0	2692.2
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	24865.0	0.0	24865.0
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	27557.2	0.0	27557.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.9	2.3
10°-20°	1344.6	4.9
20°-30°	1813.2	6.6
30°-40°	2548.0	9.2
40°-50°	3935.1	14.3
50°-60°	6292.7	22.8
60°-70°	7451.1	27.0
70°-80°	3296.2	12.0
80°-90°	230.4	0.8
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°	27557.2	100.0
0°-180°	27557.2	100.0

**Coefficient of Utilization**



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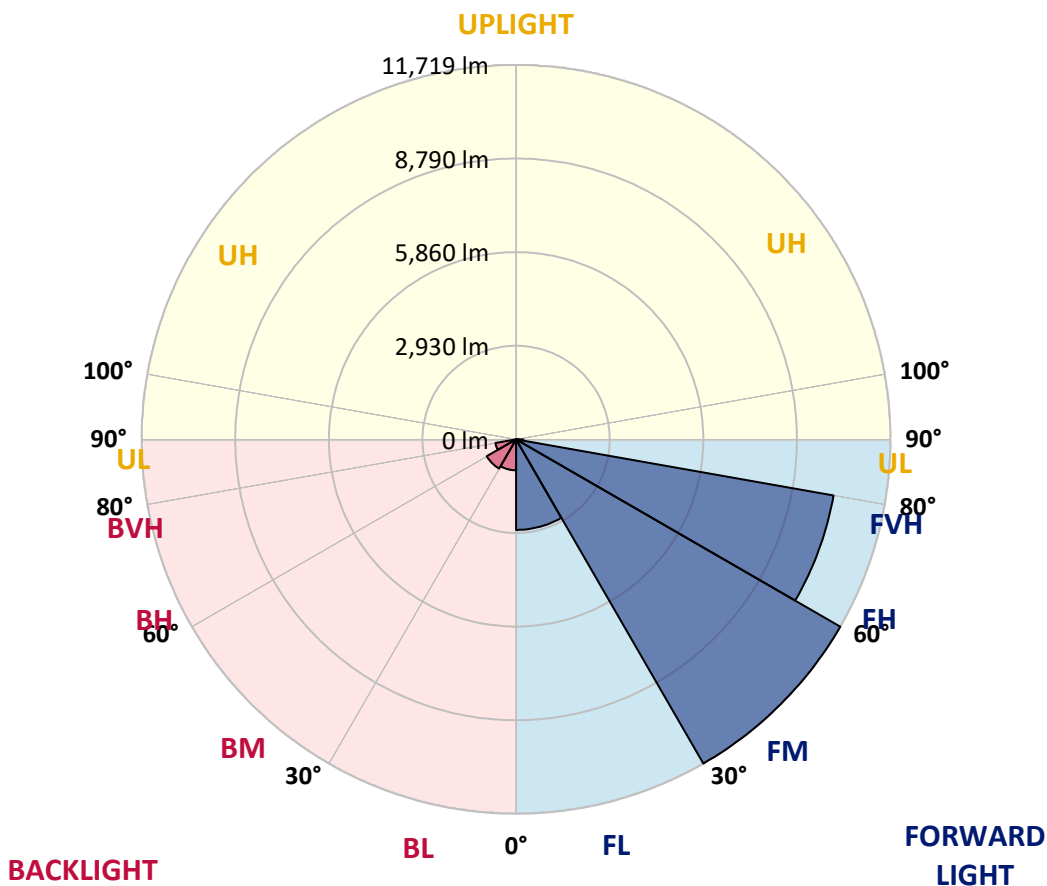
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2834.9	10.3			
FM (30°-60°)	11719.5	42.5			
FH (60°-80°)	10090.0	36.6			G4/12000
FVH (80°-90°)	220.6	0.8			G2/225
BL (0°-30°)	968.8	3.5	B2/1000		
BM (30°-60°)	1056.3	3.8	B2/2500		
BH (60°-80°)	657.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8
2.5°	8361.0	8375.6	8395.1	8419.5	8414.6	8392.7	8365.9	8304.9	8265.9	8143.9	7995.1
5°	8092.7	8090.3	8139.0	8185.4	8268.3	8312.2	8373.2	8317.1	8297.6	8151.2	7909.8
7.5°	7568.3	7595.1	7651.2	7724.4	7843.9	7973.2	8119.5	8102.4	8161.0	8063.4	7763.4
10°	7053.7	7039.0	7126.8	7236.6	7419.5	7585.4	7797.6	7795.1	7948.8	7939.0	7597.6
12.5°	6602.4	6600.0	6668.3	6792.7	7007.3	7239.0	7526.8	7534.2	7724.4	7802.4	7456.1
15°	6222.0	6226.8	6292.7	6422.0	6643.9	6926.8	7261.0	7322.0	7536.6	7695.1	7317.1
17.5°	5951.2	5953.7	5992.7	6104.9	6322.0	6624.4	7026.8	7109.8	7385.4	7614.6	7204.9
20°	5826.8	5817.1	5824.4	5880.5	6048.8	6324.4	6787.8	6895.1	7246.3	7558.5	7102.4
22.5°	5843.9	5829.3	5795.1	5787.8	5863.4	6073.2	6534.2	6665.9	7095.1	7524.4	7009.8
25°	5995.1	5963.4	5914.6	5841.5	5812.2	5917.1	6312.2	6448.8	6953.7	7526.8	6939.0
27.5°	6226.8	6192.7	6131.7	6034.2	5919.5	5875.6	6161.0	6290.3	6853.7	7582.9	6904.9
30°	6522.0	6495.1	6436.6	6319.5	6165.9	5985.4	6129.3	6236.6	6804.9	7697.6	6919.5
32.5°	6870.7	6851.2	6802.4	6695.1	6519.5	6243.9	6236.6	6319.5	6843.9	7863.4	6975.6
35°	7207.3	7214.6	7217.1	7158.5	6970.7	6636.6	6531.7	6561.0	7004.9	8112.2	7102.4
37.5°	7570.7	7553.7	7641.5	7682.9	7502.4	7146.3	6987.8	6990.3	7312.2	8480.5	7341.5
40°	7846.4	7851.2	8041.5	8212.2	8136.6	7792.7	7565.9	7563.4	7785.4	8985.4	7726.8
42.5°	8104.9	8136.6	8417.1	8709.8	8814.6	8509.8	8346.4	8285.4	8448.8	9668.3	8304.9
45°	8380.5	8426.8	8819.5	9236.6	9512.2	9331.7	9202.4	9226.8	9246.4	10463.4	9082.9
47.5°	8702.4	8731.7	9217.1	9804.9	10319.5	10273.2	10280.5	10251.2	10241.5	11465.9	10112.2
50°	9092.7	9161.0	9719.5	10422.0	11124.4	11431.7	11534.2	11546.4	11387.8	12558.6	11178.1
52.5°	9922.0	10004.9	10482.9	11097.6	12002.5	12648.8	13065.9	12982.9	12739.0	13617.1	12346.4
55°	10900.0	10963.4	11424.4	12061.0	13075.6	13982.9	14973.2	14939.0	14341.5	14731.7	13307.3
57.5°	10992.7	11063.4	11778.1	12753.7	14453.7	15631.7	16673.2	16782.9	15907.3	15522.0	14165.9
60°	9951.2	10095.1	11070.7	12382.9	14980.5	17848.8	18536.6	18558.6	17056.1	16324.4	15214.7
62.5°	7975.6	8043.9	9026.8	10739.0	14168.3	19141.5	21383.0	20919.5	18531.7	17565.9	16875.6
65°	4180.5	4458.5	5314.6	7209.8	11490.3	18690.3	24807.3	24680.5	21185.4	19343.9	18168.3
67.5°	2868.3	2865.9	3068.3	3758.5	6851.2	16092.7	26487.8	27883.0	24253.7	19953.7	17231.7
70°	2182.9	2190.2	2370.7	2819.5	3548.8	10712.2	24643.9	27029.3	24824.4	18117.1	13936.6
72.5°	1448.8	1463.4	1763.4	2278.1	2834.1	5251.2	19151.2	21626.9	20887.8	14551.2	9809.8
75°	865.9	878.0	1092.7	1656.1	2519.5	2939.0	12168.3	14951.2	14378.1	10029.3	5258.5
77.5°	356.1	365.9	561.0	1031.7	1843.9	2282.9	6729.3	9782.9	8612.2	3987.8	1436.6
80°	148.8	153.7	270.7	722.0	1329.3	1431.7	3117.1	4597.6	3529.3	858.5	439.0
82.5°	53.7	56.1	100.0	397.6	826.8	1078.1	1573.2	1817.1	995.1	280.5	236.6
85°	2.4	2.4	24.4	134.1	314.6	304.9	900.0	870.7	329.3	117.1	141.5
87.5°	0.0	0.0	2.4	2.4	4.9	12.2	85.4	151.2	70.7	29.3	61.0
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°	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8	7948.8
2.5°	7897.6	7768.3	7626.8	7495.1	7285.4	7161.0	7007.3	6939.0	6841.5	6817.1	6831.7
5°	7736.6	7514.6	7175.6	6868.3	6470.7	6151.2	5829.3	5692.7	5517.1	5400.0	5351.2
7.5°	7509.8	7219.5	6690.3	6131.7	5585.4	5002.4	4558.5	4265.9	4000.0	3853.7	3824.4
10°	7280.5	6902.4	6143.9	5343.9	4497.6	3800.0	3200.0	2756.1	2395.1	2231.7	2104.9
12.5°	7043.9	6573.2	5587.8	4543.9	3561.0	2609.8	1868.3	1436.6	1178.1	1075.6	1092.7
15°	6826.8	6256.1	5036.6	3743.9	2507.3	1575.6	1031.7	870.7	809.8	790.2	787.8
17.5°	6619.5	5956.1	4487.8	2965.9	1653.7	965.9	790.2	751.2	734.1	724.4	724.4
20°	6431.7	5668.3	3951.2	2234.1	1068.3	765.9	714.6	695.1	680.5	673.2	673.2
22.5°	6256.1	5390.3	3426.8	1580.5	787.8	687.8	656.1	636.6	619.5	609.8	609.8
25°	6097.6	5139.0	2926.8	1087.8	678.0	629.3	595.1	573.2	543.9	526.8	526.8
27.5°	5982.9	4914.6	2446.3	792.7	612.2	565.9	526.8	497.6	465.9	446.3	441.5
30°	5914.6	4724.4	1961.0	651.2	551.2	504.9	461.0	424.4	387.8	368.3	365.9
32.5°	5875.6	4548.8	1517.1	568.3	500.0	446.3	397.6	358.5	322.0	300.0	297.6
35°	5890.3	4412.2	1136.6	512.2	451.2	395.1	341.5	302.4	270.7	251.2	246.3
37.5°	6017.1	4351.2	853.7	468.3	409.8	351.2	295.1	258.5	229.3	214.6	212.2
40°	6263.4	4363.4	670.7	434.1	375.6	307.3	253.7	219.5	197.6	185.4	182.9
42.5°	6646.3	4465.9	553.7	404.9	339.0	268.3	219.5	192.7	170.7	158.5	156.1
45°	7217.1	4678.1	482.9	370.7	300.0	231.7	190.2	165.9	146.3	131.7	129.3
47.5°	8043.9	5046.3	436.6	339.0	265.9	200.0	163.4	139.0	122.0	109.8	107.3
50°	8924.4	5487.8	397.6	307.3	236.6	173.2	139.0	114.6	100.0	87.8	85.4
52.5°	9863.4	5963.4	368.3	278.0	209.8	148.8	117.1	95.1	80.5	68.3	65.9
55°	10765.9	6441.5	334.1	258.5	178.0	126.8	97.6	78.0	63.4	53.7	53.7
57.5°	11643.9	6880.5	297.6	226.8	146.3	107.3	80.5	63.4	51.2	43.9	41.5
60°	12692.7	7487.8	256.1	192.7	122.0	90.2	65.9	51.2	41.5	34.1	34.1
62.5°	14251.2	8119.5	219.5	161.0	102.4	75.6	53.7	41.5	34.1	29.3	26.8
65°	14761.0	7778.1	185.4	131.7	82.9	61.0	43.9	36.6	29.3	26.8	24.4
67.5°	13400.0	6375.6	153.7	107.3	68.3	51.2	39.0	31.7	26.8	24.4	22.0
70°	10456.1	4524.4	119.5	80.5	56.1	41.5	34.1	29.3	24.4	22.0	22.0
72.5°	7112.2	2675.6	95.1	61.0	46.3	36.6	29.3	26.8	24.4	22.0	19.5
75°	3502.4	951.2	73.2	46.3	36.6	31.7	26.8	24.4	22.0	19.5	19.5
77.5°	943.9	263.4	56.1	36.6	29.3	24.4	24.4	24.4	22.0	17.1	17.1
80°	319.5	109.8	41.5	26.8	24.4	19.5	17.1	22.0	19.5	17.1	14.6
82.5°	175.6	53.7	29.3	22.0	17.1	14.6	14.6	14.6	14.6	12.2	12.2
85°	112.2	29.3	19.5	17.1	17.1	12.2	9.8	9.8	7.3	7.3	7.3
87.5°	51.2	17.1	17.1	14.6	14.6	12.2	7.3	4.9	2.4	2.4	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)