

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: P638744

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
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-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

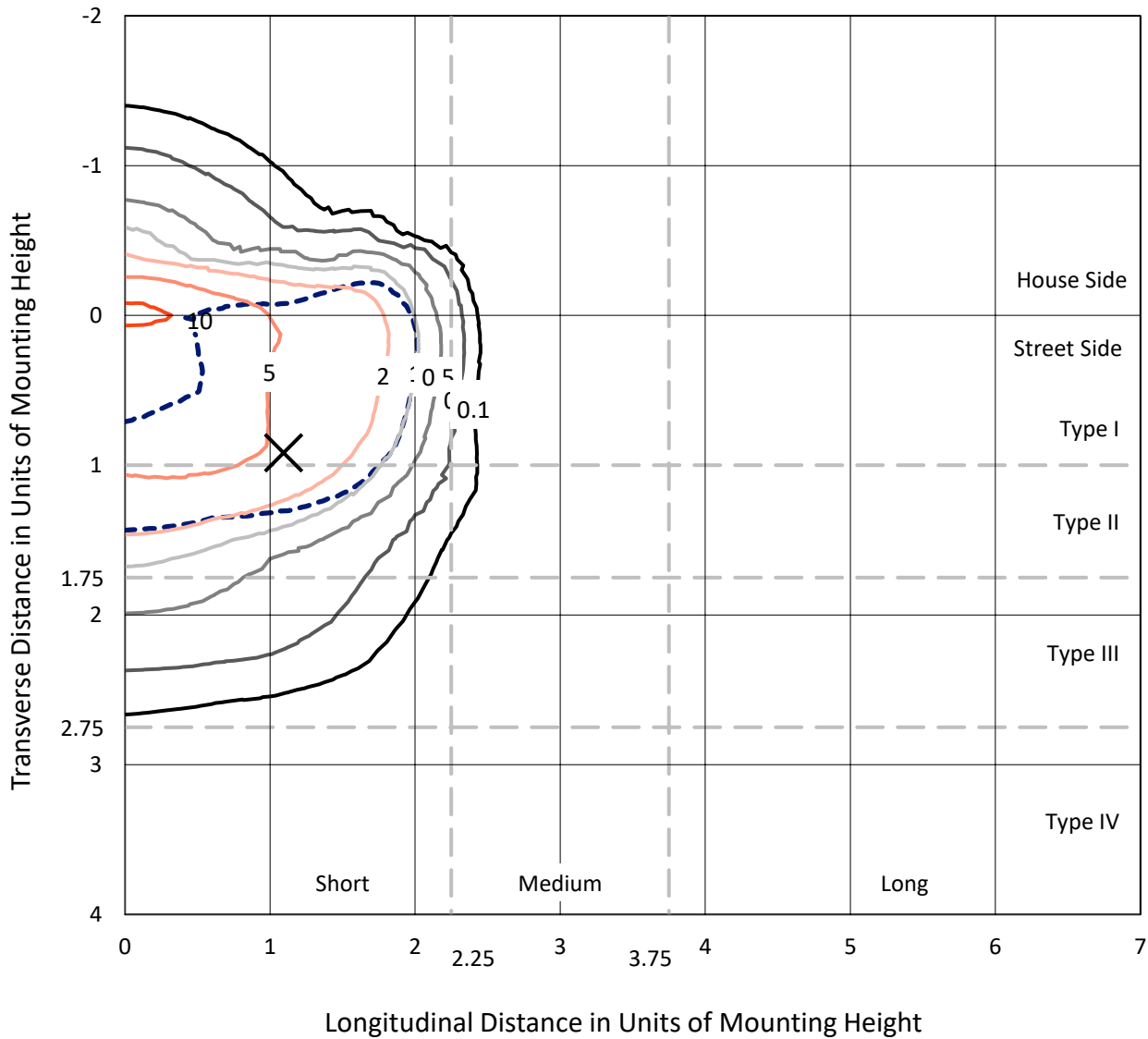
Lumens per Lamp: N/A  
Luminaire Lumens: 19978.9 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

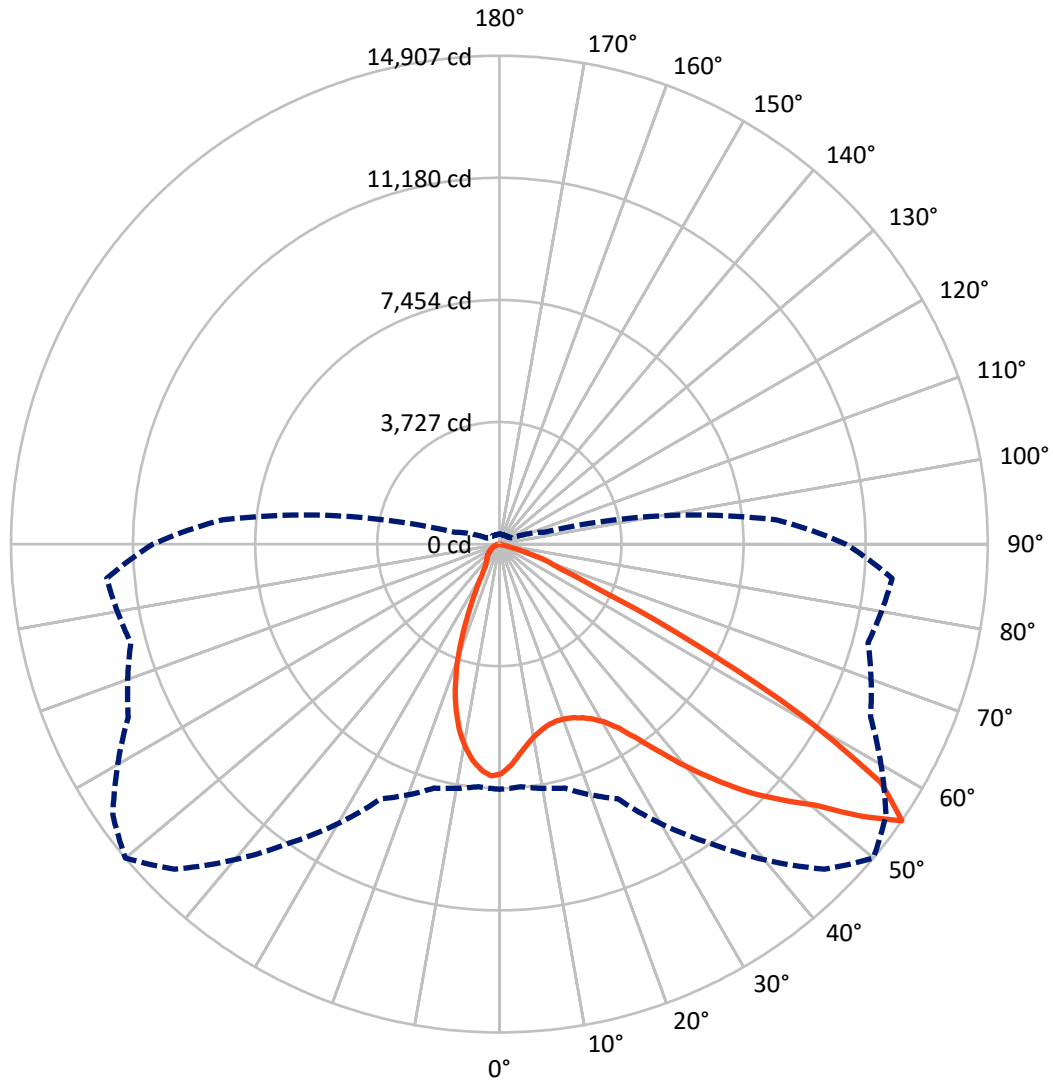
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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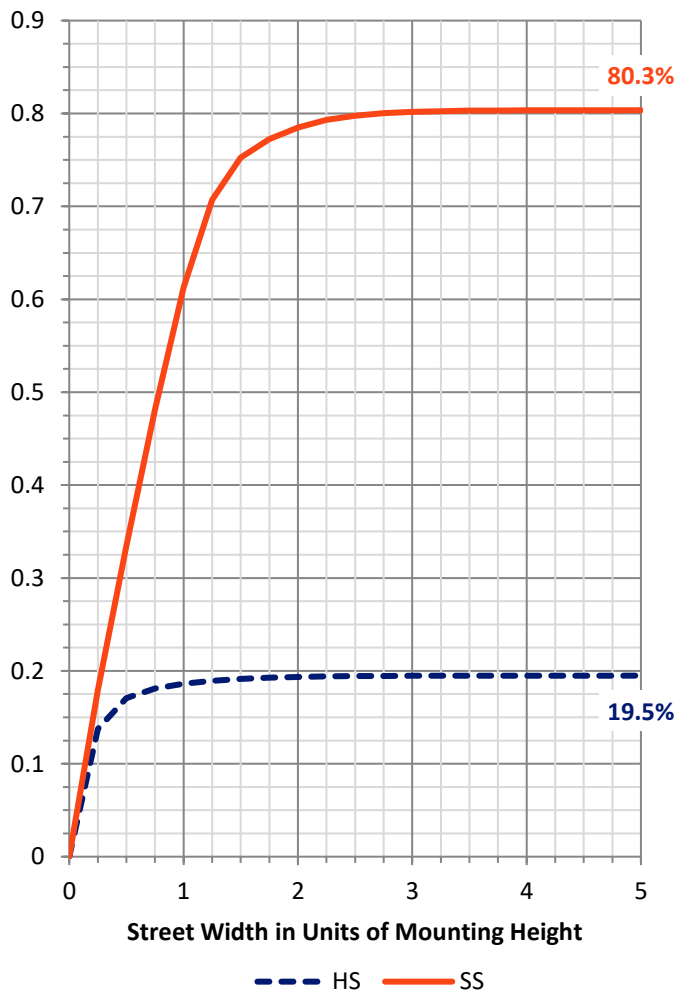
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3936.8	0.0	3936.8
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	16042.1	0.0	16042.1
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	19978.9	0.0	19978.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.6	3.1
10°-20°	1514.9	7.6
20°-30°	2136.8	10.7
30°-40°	3162.0	15.8
40°-50°	4561.8	22.8
50°-60°	5381.0	26.9
60°-70°	2400.4	12.0
70°-80°	206.4	1.0
80°-90°	0.1	0.0
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°	19978.9	100.0
0°-180°	19978.9	100.0

**Coefficient of Utilization**



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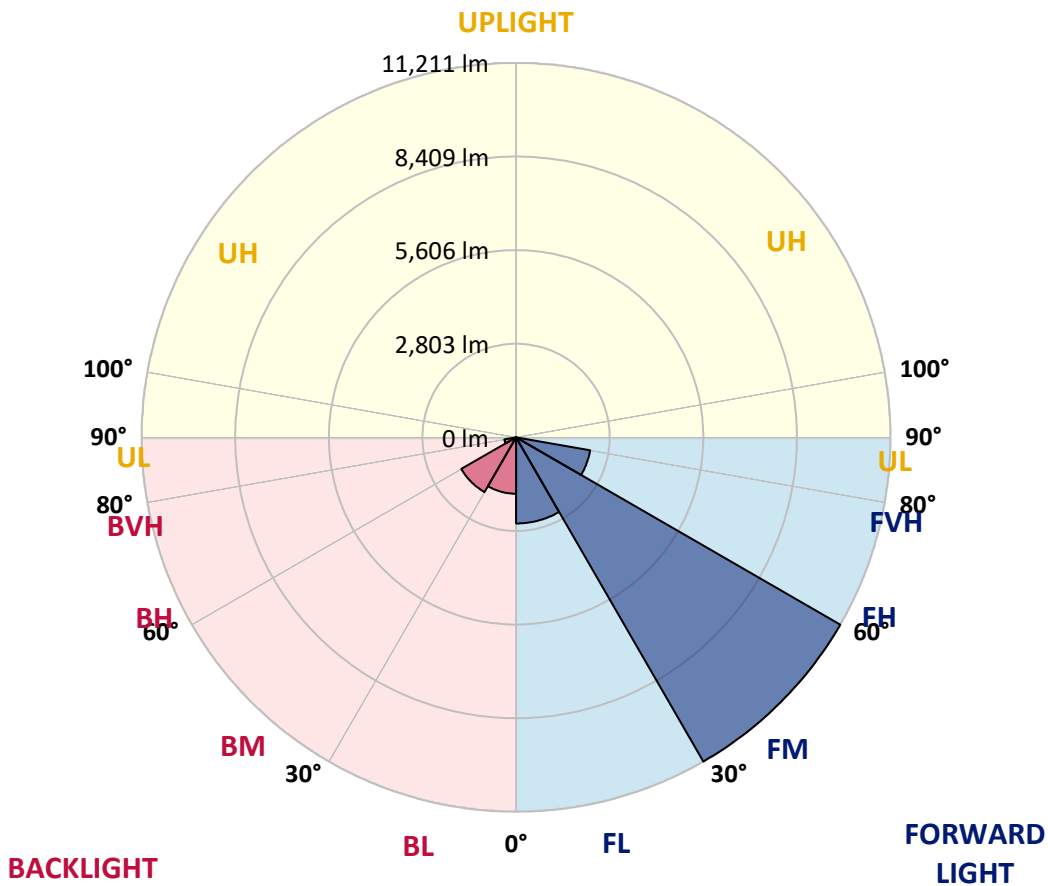
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.3	12.9			
FM (30°-60°)	11211.5	56.1			
FH (60°-80°)	2251.3	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1687.9	8.4	B3/2500		
BM (30°-60°)	1893.3	9.5	B2/2500		
BH (60°-80°)	355.5	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7
2.5°	6512.2	6517.0	6519.5	6585.3	6609.7	6707.3	6758.5	6785.3	6856.1	6939.0	7007.3
5°	6075.6	6068.3	6080.4	6163.4	6217.0	6360.9	6439.0	6492.6	6648.7	6843.9	7007.3
7.5°	5695.1	5709.7	5724.4	5814.6	5895.1	6051.2	6163.4	6243.9	6460.9	6751.2	7026.8
10°	5426.8	5426.8	5448.7	5551.2	5646.3	5839.0	5951.2	6053.6	6312.2	6668.2	7048.7
12.5°	5229.2	5231.7	5258.5	5375.6	5485.3	5685.3	5802.4	5902.4	6187.8	6585.3	7053.6
15°	5136.6	5129.2	5151.2	5275.6	5397.5	5585.3	5707.3	5804.8	6100.0	6539.0	7078.0
17.5°	5112.2	5107.3	5124.4	5246.3	5370.7	5553.6	5673.1	5770.7	6087.8	6553.6	7151.2
20°	5182.9	5173.1	5165.8	5270.7	5387.8	5568.3	5692.6	5802.4	6146.3	6634.1	7263.4
22.5°	5351.2	5351.2	5334.1	5385.3	5463.4	5626.8	5756.1	5900.0	6300.0	6795.1	7429.2
25°	5660.9	5636.5	5604.8	5626.8	5617.0	5719.5	5873.1	6073.1	6590.2	7060.9	7631.7
27.5°	6014.6	6036.5	5982.9	5985.3	5900.0	5863.4	6041.4	6343.9	7021.9	7436.5	7931.7
30°	6495.1	6478.0	6480.4	6473.1	6275.6	6102.4	6295.1	6697.5	7565.8	8009.7	8321.9
32.5°	6870.7	6895.1	6975.6	7021.9	6763.4	6485.3	6690.2	7178.0	8185.3	8663.4	8799.9
35°	7268.2	7312.1	7475.6	7626.8	7409.7	7090.2	7309.7	7814.6	8768.2	9309.7	9348.7
37.5°	7687.8	7775.6	7970.7	8236.5	8202.4	7919.5	8119.5	8563.4	9226.8	9699.9	9802.4
40°	8168.2	8253.6	8573.1	8956.0	9036.5	8973.1	9039.0	9297.5	9529.2	9717.0	9997.5
42.5°	8695.1	8812.1	9217.0	9729.2	10031.6	10087.7	9934.1	9907.3	9660.9	9521.9	9956.0
45°	9317.0	9453.6	9912.1	10575.5	11056.0	11131.6	10865.8	10521.9	9743.8	9378.0	9831.6
47.5°	10014.6	10143.8	10599.9	11397.5	12112.1	12141.4	11678.0	11124.3	9990.2	9543.8	9926.8
50°	10248.7	10329.2	10724.3	11660.9	12978.0	13202.4	12531.6	11802.4	10485.3	10031.6	10390.2
52.5°	9443.8	9475.5	9819.4	10765.8	12802.4	14243.8	13778.0	12814.5	11365.8	10775.5	11104.8
55°	7482.9	7431.7	7709.7	8578.0	11126.8	14031.6	14907.2	14404.8	12499.9	11648.7	12034.1
57.5°	5234.1	5173.1	5109.7	5697.5	8302.4	11895.0	13736.5	14626.7	13580.4	12514.6	13036.5
60°	4302.4	4243.9	3936.6	3665.8	5019.5	8541.4	10551.1	12226.7	13492.6	12470.6	13004.8
62.5°	3717.0	3682.9	3558.5	3190.2	2953.6	4875.6	6607.3	8212.1	10353.6	9792.6	9821.9
65°	2919.5	2909.7	2995.1	3034.1	2612.2	2697.5	3370.7	4268.3	5597.5	5278.0	5004.8
67.5°	1995.1	1973.2	2134.1	2624.4	2512.2	2129.3	1973.2	1990.2	2421.9	1480.5	1175.6
70°	1268.3	1217.1	1219.5	1626.8	2043.9	1680.5	1521.9	1339.0	1204.9	219.5	248.8
72.5°	812.2	780.5	670.7	734.1	946.3	819.5	826.8	712.2	475.6	117.1	136.6
75°	341.5	314.6	241.5	192.7	190.2	119.5	104.9	97.6	65.9	65.9	70.7
77.5°	2.4	0.0	0.0	2.4	4.9	2.4	2.4	4.9	9.8	14.6	17.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7	7009.7
2.5°	7048.7	6990.2	7056.1	7080.4	7078.0	7080.4	7009.7	6960.9	6958.5	6897.5	6868.2
5°	7075.6	7029.2	7078.0	7046.3	6970.7	6875.6	6748.7	6639.0	6590.2	6519.5	6485.3
7.5°	7126.8	7078.0	7070.7	6943.9	6756.1	6556.1	6331.7	6131.7	6024.3	5895.1	5902.4
10°	7163.4	7107.3	7012.1	6753.6	6441.4	6121.9	5787.8	5490.2	5302.4	5129.2	5100.0
12.5°	7178.0	7095.1	6873.1	6482.9	6043.9	5626.8	5136.6	4712.2	4419.5	4192.7	4160.9
15°	7204.8	7070.7	6695.1	6156.1	5553.6	4963.4	4339.0	3758.5	3370.7	3109.7	3131.7
17.5°	7246.3	7043.9	6495.1	5790.2	5026.8	4192.7	3348.8	2682.9	2326.8	2175.6	2178.0
20°	7304.8	7012.1	6275.6	5387.8	4395.1	3321.9	2341.4	1839.0	1739.0	1734.1	1726.8
22.5°	7382.9	6980.4	6041.4	4946.3	3646.3	2326.8	1558.5	1402.4	1443.9	1524.4	1539.0
25°	7475.6	6941.4	5780.4	4448.8	2829.2	1526.8	1168.3	1143.9	1243.9	1351.2	1375.6
27.5°	7619.5	6921.9	5482.9	3882.9	1985.4	1095.1	956.1	970.7	1061.0	1151.2	1173.2
30°	7863.4	6958.5	5158.5	3248.8	1275.6	873.2	829.3	851.2	900.0	946.3	965.8
32.5°	8195.1	7065.8	4843.9	2556.1	909.7	758.5	748.8	761.0	780.5	807.3	814.6
35°	8582.9	7251.2	4519.5	1829.3	751.2	692.7	682.9	682.9	692.7	697.6	700.0
37.5°	8902.4	7446.3	4214.6	1217.1	673.2	641.5	626.8	619.5	617.1	621.9	624.4
40°	9041.4	7526.8	3882.9	885.4	617.1	595.1	573.2	551.2	551.2	568.3	570.7
42.5°	8943.8	7436.5	3500.0	731.7	578.0	546.3	512.2	492.7	502.4	519.5	524.4
45°	8736.5	7214.6	3078.0	646.3	539.0	497.6	458.5	446.3	456.1	478.0	482.9
47.5°	8702.4	7068.2	2573.2	590.2	497.6	456.1	414.6	402.4	414.6	431.7	436.6
50°	9041.4	7195.1	2012.2	541.5	458.5	412.2	378.0	365.9	373.2	382.9	387.8
52.5°	9660.9	7665.8	1624.4	495.1	412.2	368.3	346.3	331.7	331.7	341.5	343.9
55°	10575.5	8487.7	1402.4	441.5	358.5	334.1	314.6	300.0	300.0	304.9	307.3
57.5°	11629.2	9482.9	1453.6	370.7	314.6	302.4	285.4	273.2	278.0	278.0	278.0
60°	11482.8	9409.7	1556.1	312.2	278.0	273.2	258.5	253.7	265.9	256.1	251.2
62.5°	8458.5	6500.0	814.6	256.1	239.0	234.1	224.4	234.1	251.2	224.4	214.6
65°	4107.3	3146.3	326.8	209.8	202.4	197.6	192.7	207.3	217.1	175.6	165.9
67.5°	965.8	785.4	212.2	178.0	168.3	158.5	163.4	165.9	158.5	119.5	114.6
70°	251.2	246.3	165.9	148.8	134.1	124.4	124.4	122.0	104.9	75.6	70.7
72.5°	136.6	134.1	119.5	112.2	92.7	82.9	85.4	75.6	58.5	43.9	41.5
75°	68.3	73.2	68.3	63.4	51.2	46.3	46.3	41.5	29.3	17.1	17.1
77.5°	14.6	17.1	17.1	14.6	12.2	9.8	9.8	12.2	4.9	0.0	0.0
80°	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)