

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: P642704

Luminaire Tested: GWS-SA6D-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642704  
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-SA6D-740-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

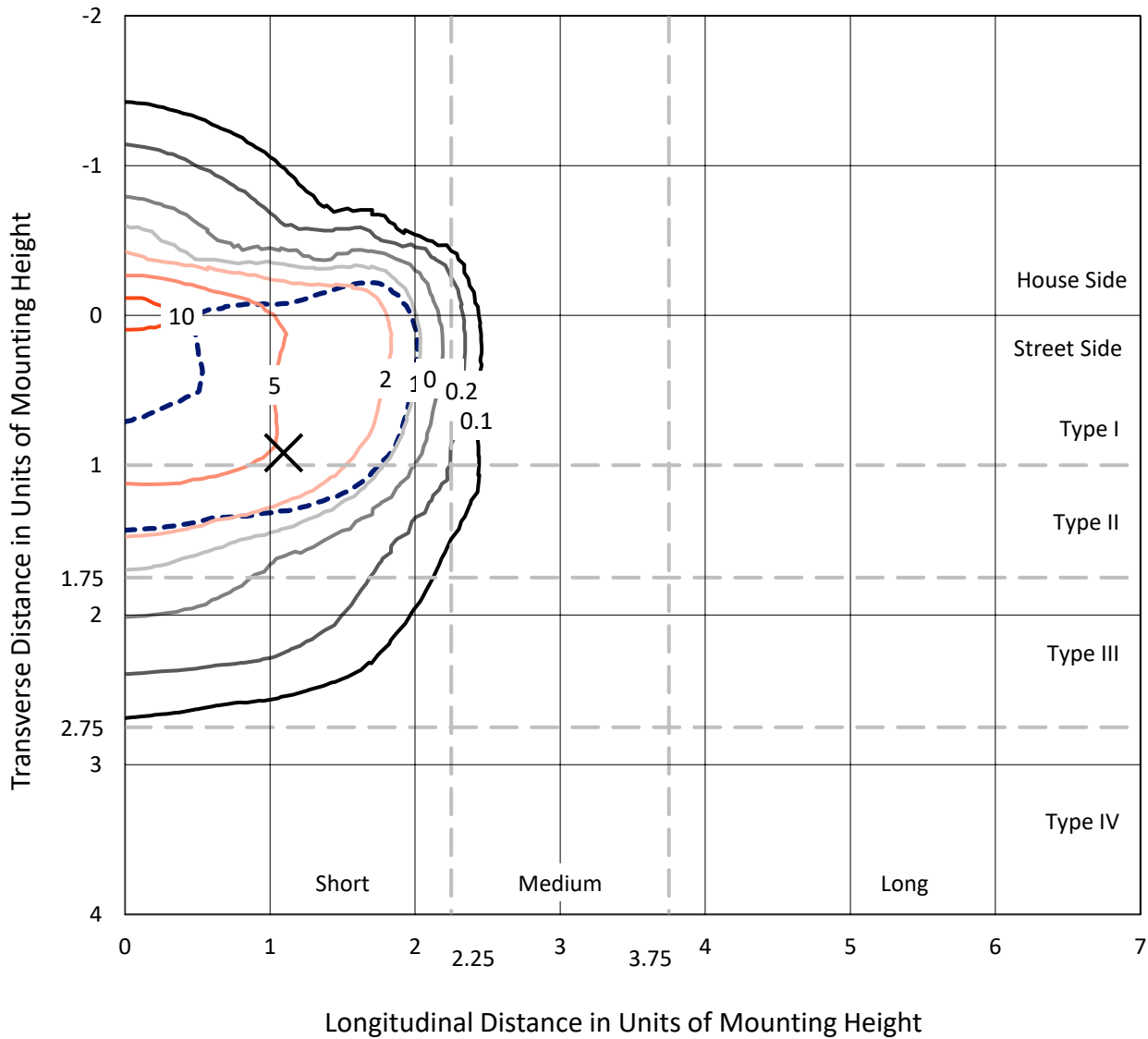
Lumens per Lamp: N/A  
Luminaire Lumens: 21034.1 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

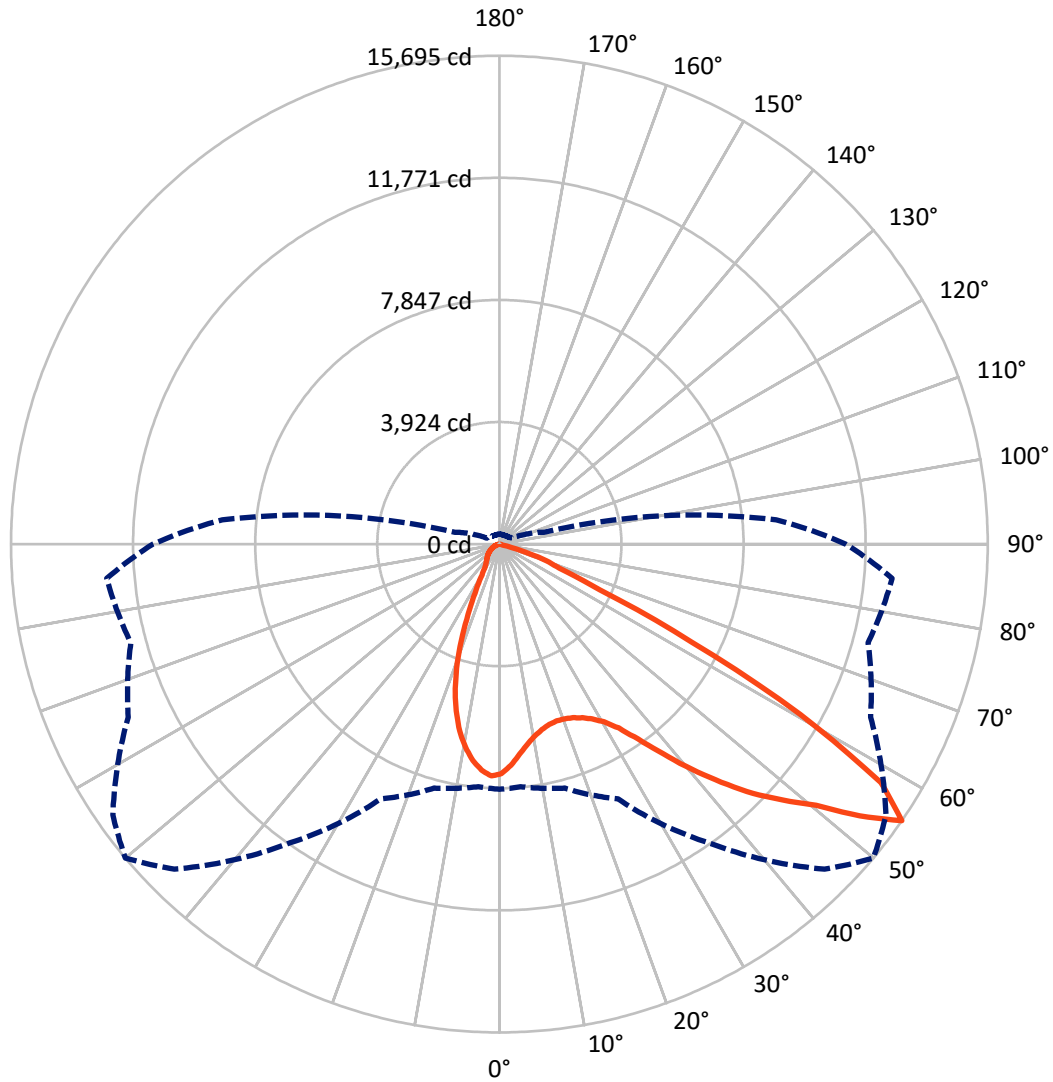
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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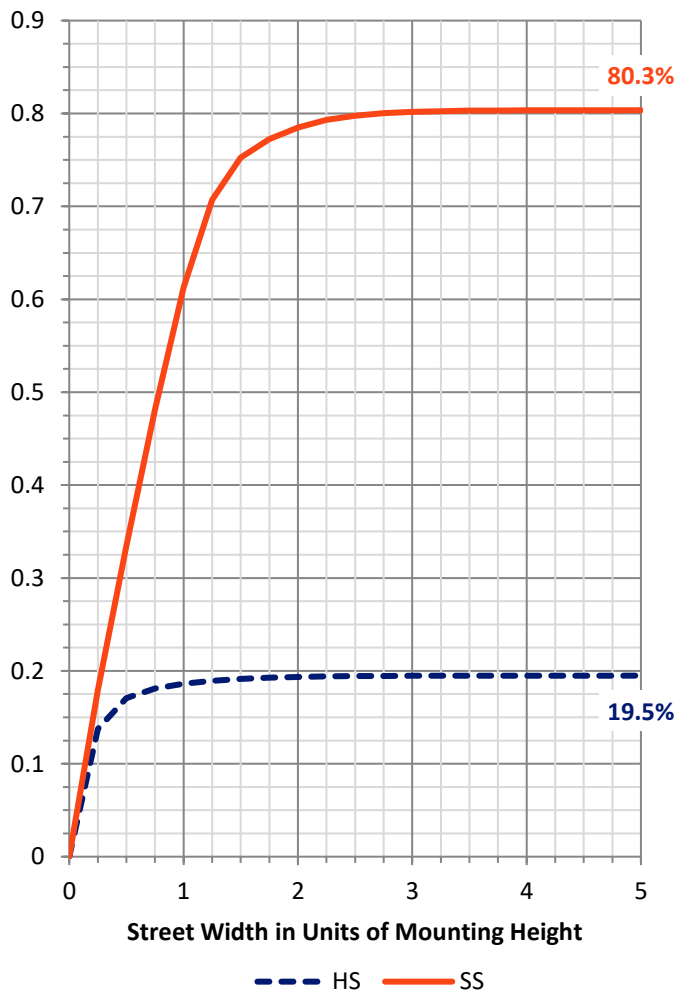
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4144.7	0.0	4144.7
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	16889.4	0.0	16889.4
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	21034.1	0.0	21034.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	648.1	3.1
10°-20°	1594.9	7.6
20°-30°	2249.7	10.7
30°-40°	3329.0	15.8
40°-50°	4802.7	22.8
50°-60°	5665.2	26.9
60°-70°	2527.1	12.0
70°-80°	217.3	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°	21034.1	100.0
0°-180°	21034.1	100.0

**Coefficient of Utilization**



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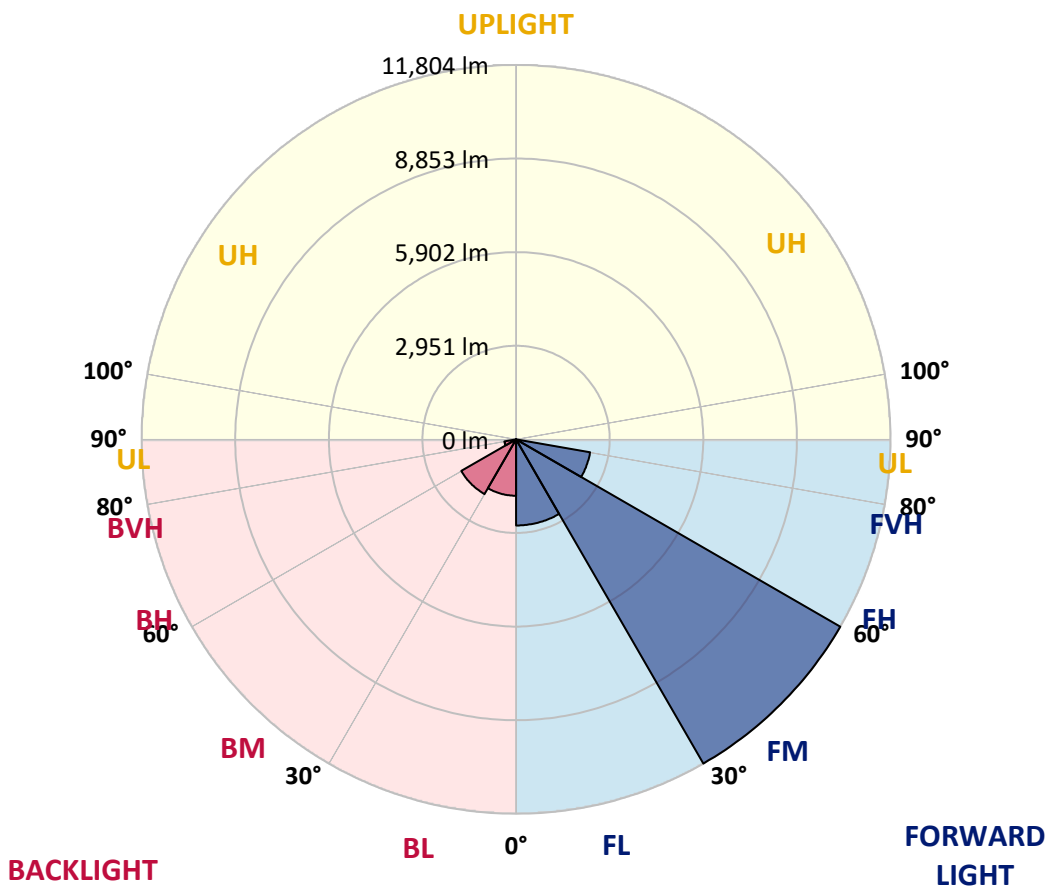
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2715.6	12.9			
FM (30°-60°)	11803.6	56.1			
FH (60°-80°)	2370.2	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1777.1	8.4	B3/2500		
BM (30°-60°)	1993.3	9.5	B2/2500		
BH (60°-80°)	374.2	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°	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9
2.5°	6856.1	6861.2	6863.8	6933.1	6958.8	7061.5	7115.4	7143.7	7218.2	7305.5	7377.4
5°	6396.5	6388.8	6401.6	6488.9	6545.4	6696.9	6779.1	6835.6	6999.9	7205.3	7377.4
7.5°	5995.9	6011.3	6026.7	6121.7	6206.4	6370.8	6488.9	6573.6	6802.2	7107.7	7397.9
10°	5713.4	5713.4	5736.5	5844.4	5944.5	6147.4	6265.5	6373.3	6645.5	7020.4	7421.0
12.5°	5505.4	5508.0	5536.2	5659.5	5775.0	5985.6	6108.9	6214.1	6514.6	6933.1	7426.2
15°	5407.8	5400.1	5423.2	5554.2	5682.6	5880.3	6008.7	6111.4	6422.1	6884.3	7451.8
17.5°	5382.2	5377.0	5395.0	5523.4	5654.4	5846.9	5972.8	6075.5	6409.3	6899.7	7528.9
20°	5456.6	5446.4	5438.7	5549.1	5672.3	5862.3	5993.3	6108.9	6470.9	6984.5	7647.0
22.5°	5633.8	5633.8	5615.8	5669.8	5751.9	5924.0	6060.1	6211.6	6632.7	7154.0	7821.6
25°	5959.9	5934.2	5900.9	5924.0	5913.7	6021.6	6183.3	6393.9	6938.3	7433.9	8034.7
27.5°	6332.3	6355.4	6298.9	6301.4	6211.6	6173.1	6360.5	6678.9	7392.8	7829.3	8350.6
30°	6838.1	6820.1	6822.7	6815.0	6607.0	6424.7	6627.6	7051.3	7965.4	8432.7	8761.4
32.5°	7233.6	7259.2	7344.0	7392.8	7120.6	6827.8	7043.5	7557.1	8617.6	9120.9	9264.7
35°	7652.1	7698.3	7870.4	8029.6	7801.1	7464.7	7695.8	8227.3	9231.3	9801.4	9842.5
37.5°	8093.8	8186.2	8391.7	8671.5	8635.6	8337.7	8548.3	9015.6	9714.1	10212.2	10320.1
40°	8599.6	8689.5	9025.9	9429.1	9513.8	9447.0	9516.4	9788.6	10032.5	10230.2	10525.5
42.5°	9154.3	9277.6	9703.8	10243.1	10561.5	10620.5	10458.8	10430.5	10171.2	10024.8	10481.9
45°	9809.1	9952.9	10435.6	11134.1	11640.0	11719.6	11439.7	11077.6	10258.5	9873.3	10350.9
47.5°	10543.5	10679.6	11159.8	11999.5	12751.8	12782.6	12294.8	11711.9	10517.8	10047.9	10451.1
50°	10790.0	10874.7	11290.7	12276.8	13663.4	13899.6	13193.5	12425.7	11039.1	10561.5	10938.9
52.5°	9942.6	9976.0	10338.1	11334.4	13478.5	14996.1	14505.6	13491.4	11966.1	11344.7	11691.3
55°	7878.1	7824.2	8116.9	9031.0	11714.4	14772.7	15694.6	15165.6	13160.1	12263.9	12669.7
57.5°	5510.6	5446.4	5379.6	5998.4	8740.9	12523.3	14462.0	15399.3	14297.7	13175.5	13725.0
60°	4529.6	4468.0	4144.5	3859.4	5284.6	8992.5	11108.4	12872.5	14205.2	13129.3	13691.6
62.5°	3913.4	3877.4	3746.5	3358.7	3109.6	5133.1	6956.2	8645.9	10900.4	10309.8	10340.6
65°	3073.7	3063.4	3153.3	3194.4	2750.1	2840.0	3548.7	4493.7	5893.2	5556.8	5269.2
67.5°	2100.5	2077.4	2246.8	2763.0	2644.9	2241.7	2077.4	2095.3	2549.9	1558.7	1237.7
70°	1335.3	1281.3	1283.9	1712.7	2151.8	1769.2	1602.3	1409.7	1268.5	231.1	261.9
72.5°	855.1	821.7	706.2	772.9	996.3	862.8	870.5	749.8	500.7	123.3	143.8
75°	359.5	331.2	254.2	202.9	200.3	125.8	110.4	102.7	69.3	69.3	74.5
77.5°	2.6	0.0	0.0	2.6	5.1	2.6	2.6	5.1	10.3	15.4	18.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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°	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9	7379.9
2.5°	7421.0	7359.4	7428.7	7454.4	7451.8	7454.4	7379.9	7328.6	7326.0	7261.8	7231.0
5°	7449.3	7400.5	7451.8	7418.4	7338.8	7238.7	7105.2	6989.6	6938.3	6863.8	6827.8
7.5°	7503.2	7451.8	7444.1	7310.6	7112.9	6902.3	6666.1	6455.5	6342.5	6206.4	6214.1
10°	7541.7	7482.6	7382.5	7110.3	6781.6	6445.2	6093.5	5780.2	5582.5	5400.1	5369.3
12.5°	7557.1	7469.8	7236.1	6825.3	6363.1	5924.0	5407.8	4961.0	4652.9	4414.1	4380.7
15°	7585.4	7444.1	7048.7	6481.2	5846.9	5225.5	4568.2	3957.0	3548.7	3274.0	3297.1
17.5°	7629.0	7415.9	6838.1	6096.0	5292.3	4414.1	3525.6	2824.6	2449.7	2290.5	2293.1
20°	7690.6	7382.5	6607.0	5672.3	4627.2	3497.4	2465.1	1936.1	1830.9	1825.7	1818.0
22.5°	7772.8	7349.1	6360.5	5207.6	3838.9	2449.7	1640.8	1476.5	1520.2	1604.9	1620.3
25°	7870.4	7308.0	6085.7	4683.7	2978.7	1607.5	1230.0	1204.3	1309.6	1422.6	1448.3
27.5°	8021.9	7287.5	5772.5	4088.0	2090.2	1153.0	1006.6	1022.0	1117.0	1212.0	1235.1
30°	8278.7	7326.0	5431.0	3420.3	1343.0	919.3	873.1	896.2	947.5	996.3	1016.9
32.5°	8627.9	7439.0	5099.7	2691.1	957.8	798.6	788.3	801.2	821.7	850.0	857.7
35°	9036.2	7634.1	4758.2	1925.9	790.9	729.3	719.0	719.0	729.3	734.4	737.0
37.5°	9372.6	7839.6	4437.2	1281.3	708.7	675.3	659.9	652.2	649.7	654.8	657.4
40°	9518.9	7924.3	4088.0	932.1	649.7	626.5	603.4	580.3	580.3	598.3	600.9
42.5°	9416.2	7829.3	3684.8	770.3	608.6	575.2	539.2	518.7	529.0	546.9	552.1
45°	9198.0	7595.6	3240.6	680.5	567.5	523.8	482.8	469.9	480.2	503.3	508.4
47.5°	9162.0	7441.6	2709.1	621.4	523.8	480.2	436.5	423.7	436.5	454.5	459.6
50°	9518.9	7575.1	2118.5	570.1	482.8	434.0	398.0	385.2	392.9	403.1	408.3
52.5°	10171.2	8070.7	1710.2	521.3	434.0	387.7	364.6	349.2	349.2	359.5	362.1
55°	11134.1	8936.0	1476.5	464.8	377.5	351.8	331.2	315.8	315.8	321.0	323.5
57.5°	12243.4	9983.7	1530.4	390.3	331.2	318.4	300.4	287.6	292.7	292.7	292.7
60°	12089.3	9906.7	1638.3	328.7	292.7	287.6	272.2	267.1	279.9	269.6	264.5
62.5°	8905.2	6843.3	857.7	269.6	251.6	246.5	236.2	246.5	264.5	236.2	226.0
65°	4324.2	3312.5	344.1	220.8	213.1	208.0	202.9	218.3	228.5	184.9	174.6
67.5°	1016.9	826.8	223.4	187.5	177.2	166.9	172.0	174.6	166.9	125.8	120.7
70°	264.5	259.4	174.6	156.6	141.2	131.0	131.0	128.4	110.4	79.6	74.5
72.5°	143.8	141.2	125.8	118.1	97.6	87.3	89.9	79.6	61.6	46.2	43.7
75°	71.9	77.0	71.9	66.8	53.9	48.8	48.8	43.7	30.8	18.0	18.0
77.5°	15.4	18.0	18.0	15.4	12.8	10.3	10.3	12.8	5.1	0.0	0.0
80°	2.6	2.6	2.6	2.6	2.6	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)