

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: P636492

Luminaire Tested: GWS-SA3F-830-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-830-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

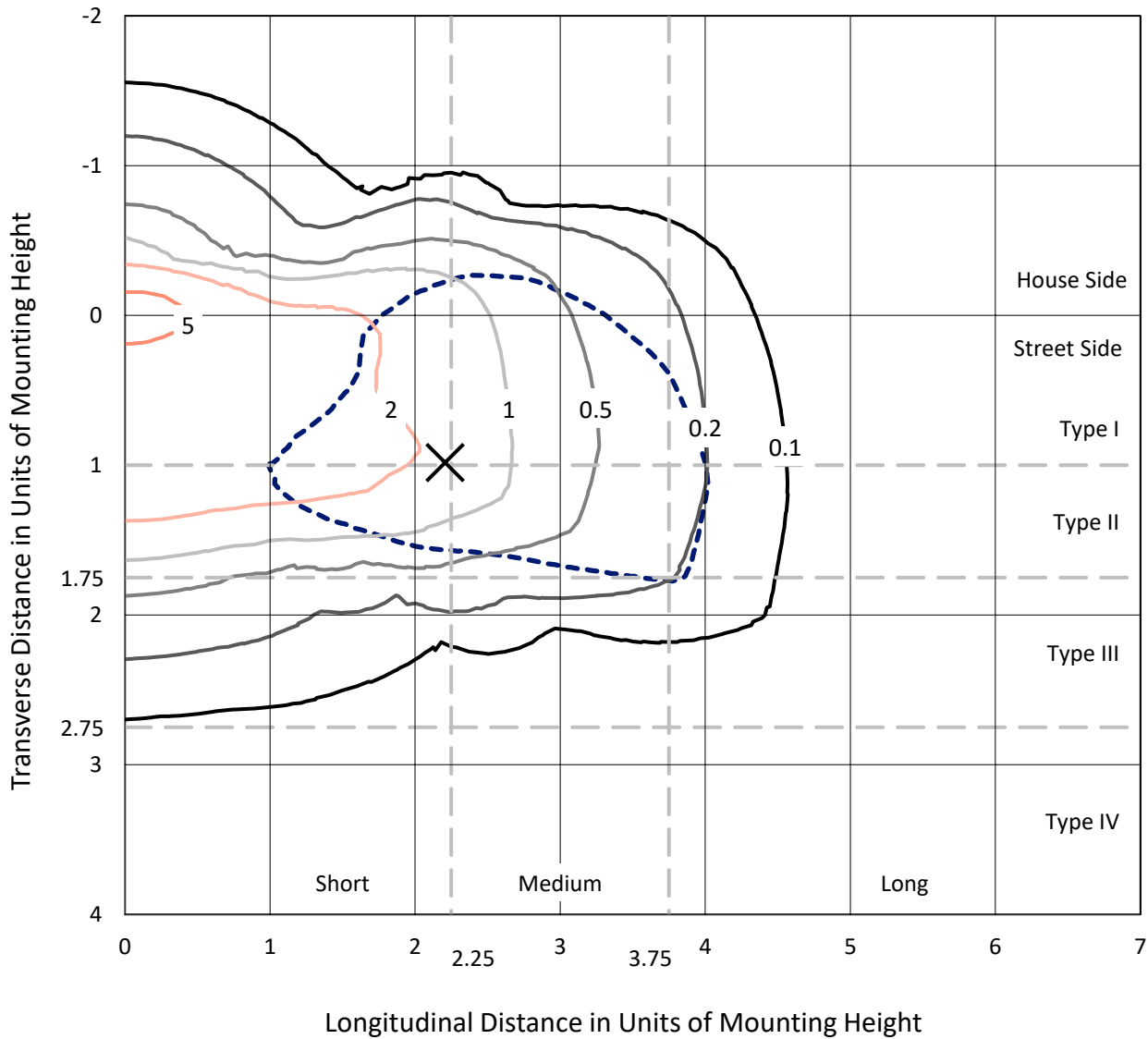
Lumens per Lamp: N/A  
Luminaire Lumens: 19087 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

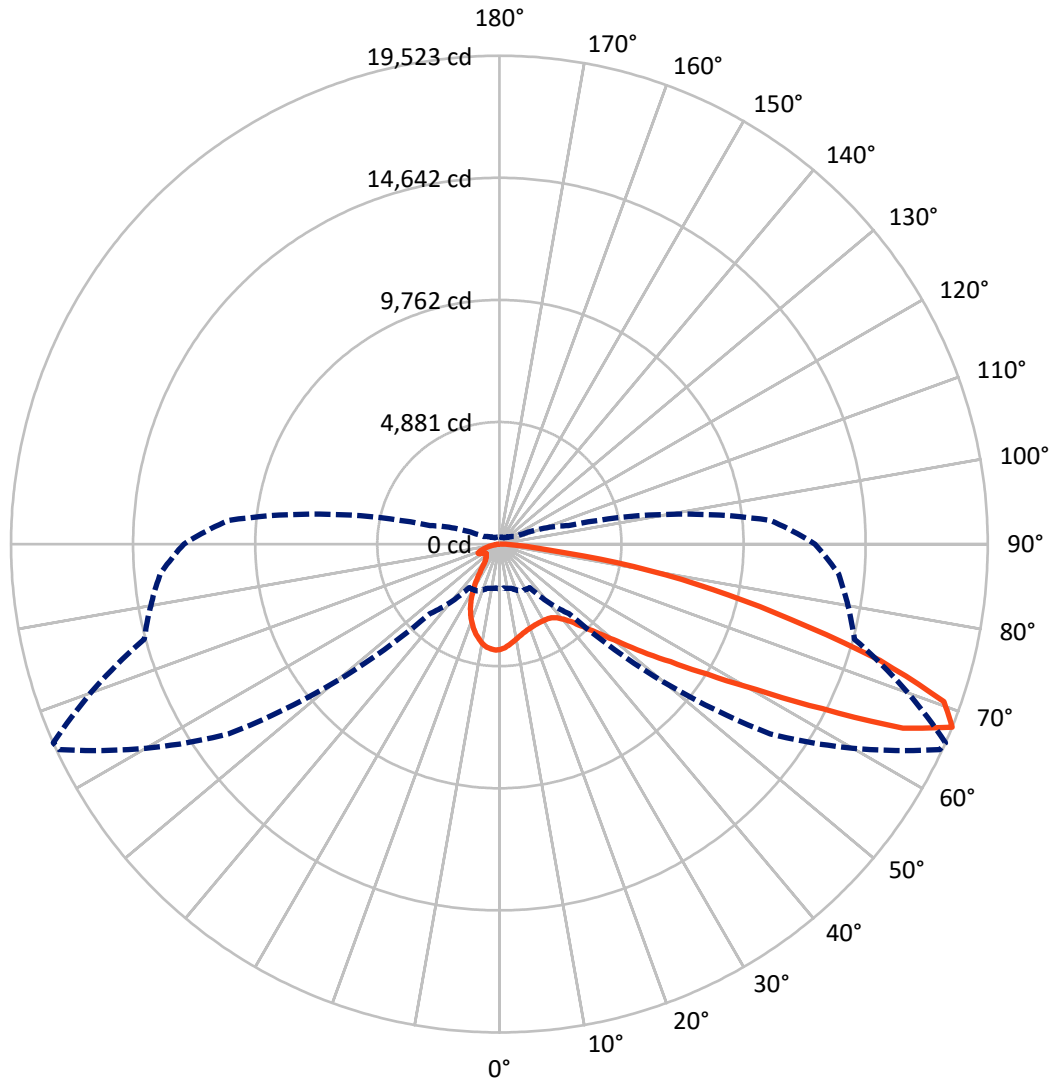
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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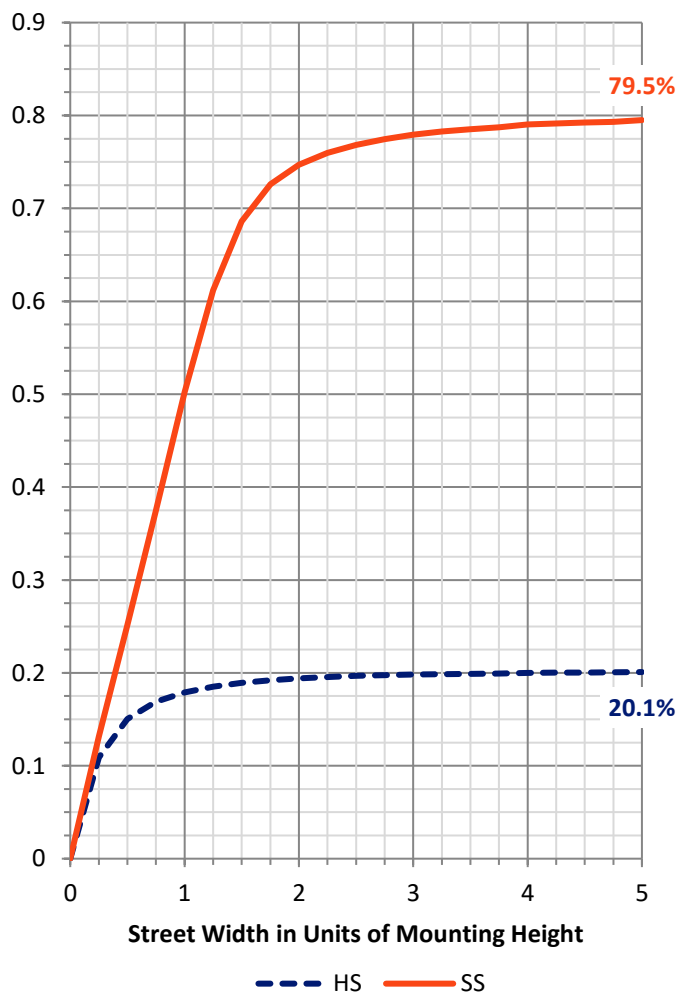
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3873.2	0.0	3873.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	15213.8	0.0	15213.8
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	19087.0	0.0	19087.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.2	1.9
10°-20°	909.7	4.8
20°-30°	1250.4	6.6
30°-40°	1709.5	9.0
40°-50°	2590.4	13.6
50°-60°	4026.8	21.1
60°-70°	4902.5	25.7
70°-80°	2986.4	15.6
80°-90°	341.1	1.8
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°	19087.0	100.0
0°-180°	19087.0	100.0

**Coefficient of Utilization**



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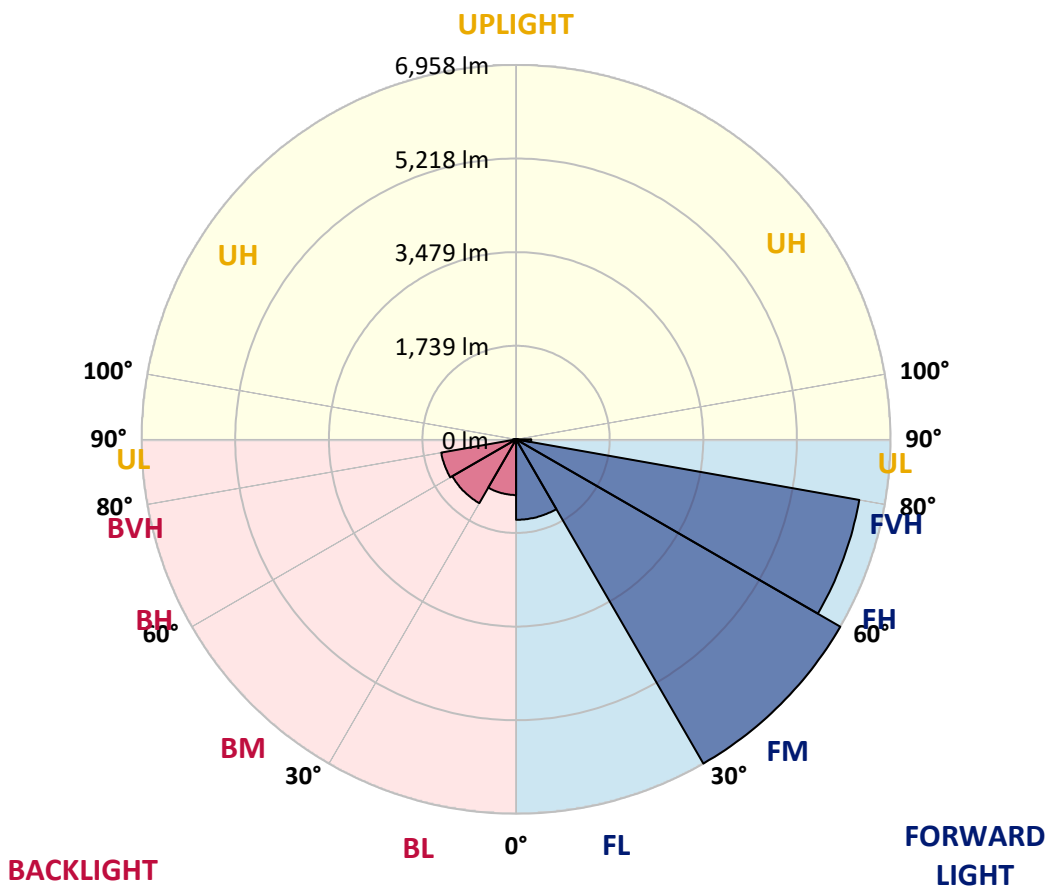
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.6	7.8			
FM (30°-60°)	6957.9	36.5			
FH (60°-80°)	6476.7	33.9			G3/7500
FVH (80°-90°)	283.6	1.5			G3/500
BL (0°-30°)	1034.7	5.4	B3/2500		
BM (30°-60°)	1368.7	7.2	B2/2500		
BH (60°-80°)	1412.2	7.4	B3/2500		G3/2500
BVH (80°-90°)	57.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7
2.5°	3950.3	3964.3	3955.9	4008.8	4011.6	4078.4	4116.0	4148.1	4150.8	4192.6	4220.5
5°	3680.2	3688.6	3688.6	3738.7	3772.1	3861.2	3947.6	4039.5	4046.4	4146.7	4223.3
7.5°	3461.6	3469.9	3464.4	3531.2	3574.4	3673.2	3783.2	3923.9	3937.8	4099.3	4233.0
10°	3290.3	3287.5	3301.5	3362.7	3418.4	3536.8	3659.3	3819.4	3840.3	4045.0	4244.1
12.5°	3173.4	3176.1	3184.5	3248.6	3308.4	3425.4	3552.1	3726.2	3748.4	3982.4	4238.6
15°	3117.7	3112.1	3119.1	3177.5	3234.6	3337.7	3468.6	3648.2	3670.5	3926.7	4240.0
17.5°	3105.1	3101.0	3099.6	3141.3	3184.5	3280.6	3405.9	3588.3	3612.0	3890.5	4248.3
20°	3144.1	3138.5	3123.2	3141.3	3159.4	3240.2	3361.3	3545.1	3571.6	3866.8	4265.0
22.5°	3251.3	3241.6	3217.9	3195.6	3172.0	3220.7	3333.5	3513.1	3539.6	3851.5	4281.7
25°	3414.3	3405.9	3380.8	3330.7	3244.4	3236.0	3327.9	3499.2	3525.6	3840.3	4288.7
27.5°	3638.4	3625.9	3600.8	3528.4	3387.8	3293.1	3348.8	3497.8	3522.9	3827.8	4281.7
30°	3904.4	3896.0	3882.1	3794.4	3606.4	3414.3	3396.1	3508.9	3528.4	3820.8	4267.8
32.5°	4174.5	4166.2	4177.3	4135.5	3904.4	3614.8	3499.2	3539.6	3553.5	3819.4	4255.3
35°	4412.6	4422.4	4503.1	4510.1	4283.1	3886.3	3662.1	3610.6	3613.4	3847.3	4260.9
37.5°	4661.9	4699.5	4805.3	4895.8	4706.4	4245.5	3904.4	3744.3	3741.5	3918.3	4295.7
40°	4991.9	5008.6	5143.7	5313.5	5195.2	4738.5	4248.3	3962.9	3943.4	4063.1	4389.0
42.5°	5313.5	5353.9	5569.7	5764.7	5725.7	5294.0	4681.4	4290.1	4255.3	4319.3	4581.1
45°	5722.9	5761.9	6004.2	6254.8	6325.8	5922.0	5235.6	4755.2	4720.4	4705.0	4933.4
47.5°	6132.3	6172.7	6389.9	6751.9	7001.2	6707.4	5956.8	5369.2	5312.1	5252.3	5465.3
50°	6408.0	6455.3	6662.8	7097.2	7682.1	7687.6	6811.8	6174.1	6101.6	6007.0	6214.4
52.5°	6398.2	6428.9	6626.6	7127.9	8172.2	8814.1	7956.4	7198.9	7140.4	6934.3	7115.3
55°	5895.6	5941.5	6140.6	6767.2	8225.1	9882.1	9638.4	8407.5	8303.1	7934.1	8133.2
57.5°	4886.1	4925.0	5125.6	5898.4	7755.9	10429.3	11774.4	9947.6	9804.1	9023.0	9252.7
60°	3688.6	3641.2	3735.9	4412.6	6633.6	10443.3	13659.8	12036.2	11796.7	10187.1	10379.2
62.5°	2768.2	2720.8	2741.7	2932.5	4497.6	9599.4	14734.7	14893.5	14498.0	11501.5	11463.9
65°	2187.5	2161.1	2220.9	2351.8	2622.0	7310.3	14743.1	17983.3	17734.1	13024.8	12576.5
67.5°	1782.3	1765.6	1826.9	2069.2	2126.2	3928.1	13219.8	19425.9	19523.3	14693.0	13608.3
70°	1435.6	1410.5	1506.6	1825.5	1977.3	2376.9	9469.9	18690.7	18848.0	15687.2	13317.2
72.5°	991.4	992.8	1041.5	1478.8	1909.0	2052.4	5356.7	15563.2	15904.4	14786.3	11707.6
75°	668.4	673.9	687.9	976.1	1758.6	1991.2	2854.5	11782.8	12023.7	12221.4	9677.4
77.5°	403.8	406.6	438.6	590.4	1212.8	1858.9	1934.1	8541.2	8730.6	8056.6	5998.6
80°	233.9	243.7	272.9	395.5	818.8	1396.6	1496.9	5236.9	5451.4	3581.3	1906.2
82.5°	103.0	110.0	149.0	229.8	477.6	1187.7	1168.3	2069.2	2038.5	998.4	661.4
85°	18.1	22.3	32.0	72.4	175.4	626.6	906.5	913.4	859.1	378.7	274.3
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	136.5	245.1	243.7	107.2	94.7
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°	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7	4217.7
2.5°	4238.6	4201.0	4234.4	4238.6	4231.6	4226.0	4184.3	4148.1	4143.9	4104.9	4104.9
5°	4253.9	4219.1	4235.8	4203.8	4153.6	4102.1	4013.0	3951.7	3923.9	3873.8	3873.8
7.5°	4274.8	4238.6	4219.1	4139.7	4022.7	3910.0	3766.5	3646.8	3598.1	3527.0	3524.3
10°	4294.3	4248.3	4181.5	4026.9	3840.3	3660.7	3451.8	3282.0	3166.4	3081.5	3081.5
12.5°	4292.9	4233.0	4100.7	3872.4	3614.8	3354.4	3075.9	2819.7	2666.5	2534.2	2525.9
15°	4290.1	4207.9	3997.7	3692.7	3351.6	2991.0	2612.2	2278.0	2051.1	1921.6	1910.4
17.5°	4287.3	4175.9	3882.1	3488.0	3031.3	2539.8	2039.9	1677.9	1488.5	1409.1	1411.9
20°	4287.3	4139.7	3758.2	3252.7	2662.3	1999.5	1496.9	1233.7	1186.4	1190.5	1194.7
22.5°	4274.8	4095.2	3620.3	2996.5	2251.6	1470.4	1104.2	1015.1	1040.1	1079.1	1084.7
25°	4245.5	4021.4	3460.2	2712.5	1762.8	1070.8	900.9	884.2	930.1	978.9	992.8
27.5°	4199.6	3936.4	3280.6	2379.7	1297.7	860.5	792.3	790.9	827.1	863.3	875.8
30°	4150.8	3841.7	3091.2	2009.3	939.9	749.1	722.7	722.7	740.8	763.1	760.3
32.5°	4093.8	3745.6	2887.9	1623.6	765.8	686.5	678.1	673.9	676.7	685.1	685.1
35°	4045.0	3660.7	2679.0	1215.6	686.5	651.7	643.3	633.6	629.4	623.8	626.6
37.5°	4026.9	3593.9	2463.2	916.2	647.5	626.6	612.7	598.7	589.0	586.2	584.8
40°	4056.2	3566.0	2247.4	754.7	619.6	600.1	584.8	566.7	558.4	558.4	558.4
42.5°	4170.3	3586.9	2027.4	682.3	600.1	577.9	555.6	538.9	536.1	538.9	540.3
45°	4379.2	3667.7	1799.0	646.1	583.4	555.6	529.1	516.6	516.6	519.4	519.4
47.5°	4752.4	3879.3	1573.5	623.8	566.7	537.5	509.6	497.1	495.7	498.5	498.5
50°	5398.5	4260.9	1370.2	608.5	554.2	523.6	495.7	479.0	474.8	473.4	473.4
52.5°	6213.0	4922.3	1240.7	597.4	538.9	508.2	480.4	458.1	449.8	445.6	445.6
55°	7197.5	5803.7	1240.7	589.0	519.4	490.1	458.1	435.8	423.3	417.7	417.7
57.5°	8312.8	6829.9	1455.1	582.0	504.1	469.3	434.4	412.2	398.2	389.9	389.9
60°	9447.7	7914.6	1985.6	572.3	490.1	442.8	408.0	387.1	369.0	359.2	357.9
62.5°	10624.3	9109.3	2684.6	577.9	480.4	417.7	380.1	356.5	341.1	331.4	330.0
65°	11702.0	10246.9	3295.9	621.0	481.8	395.5	348.1	327.2	314.7	302.2	300.8
67.5°	12616.9	10874.9	2867.0	708.7	511.0	369.0	316.1	295.2	284.1	275.7	274.3
70°	11976.3	9916.9	1626.4	763.1	551.4	341.1	279.9	266.0	254.8	249.2	247.9
72.5°	10241.4	8396.4	1087.5	673.9	502.7	304.9	246.5	235.3	227.0	220.0	218.6
75°	8296.1	6658.6	831.3	552.8	391.3	247.9	211.7	203.3	194.9	188.0	186.6
77.5°	4908.3	3847.3	612.7	437.2	275.7	193.5	175.4	168.5	160.1	154.6	153.2
80°	1566.5	1336.7	388.5	300.8	182.4	149.0	135.1	129.5	121.1	114.2	112.8
82.5°	597.4	516.6	206.1	153.2	121.1	101.6	90.5	84.9	79.4	72.4	71.0
85°	264.6	247.9	114.2	82.2	65.4	50.1	44.6	41.8	34.8	29.2	27.8
87.5°	93.3	93.3	48.7	23.7	13.9	7.0	4.2	1.4	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)