

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: P636498

Luminaire Tested: GWS-SA3F-830-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-830-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

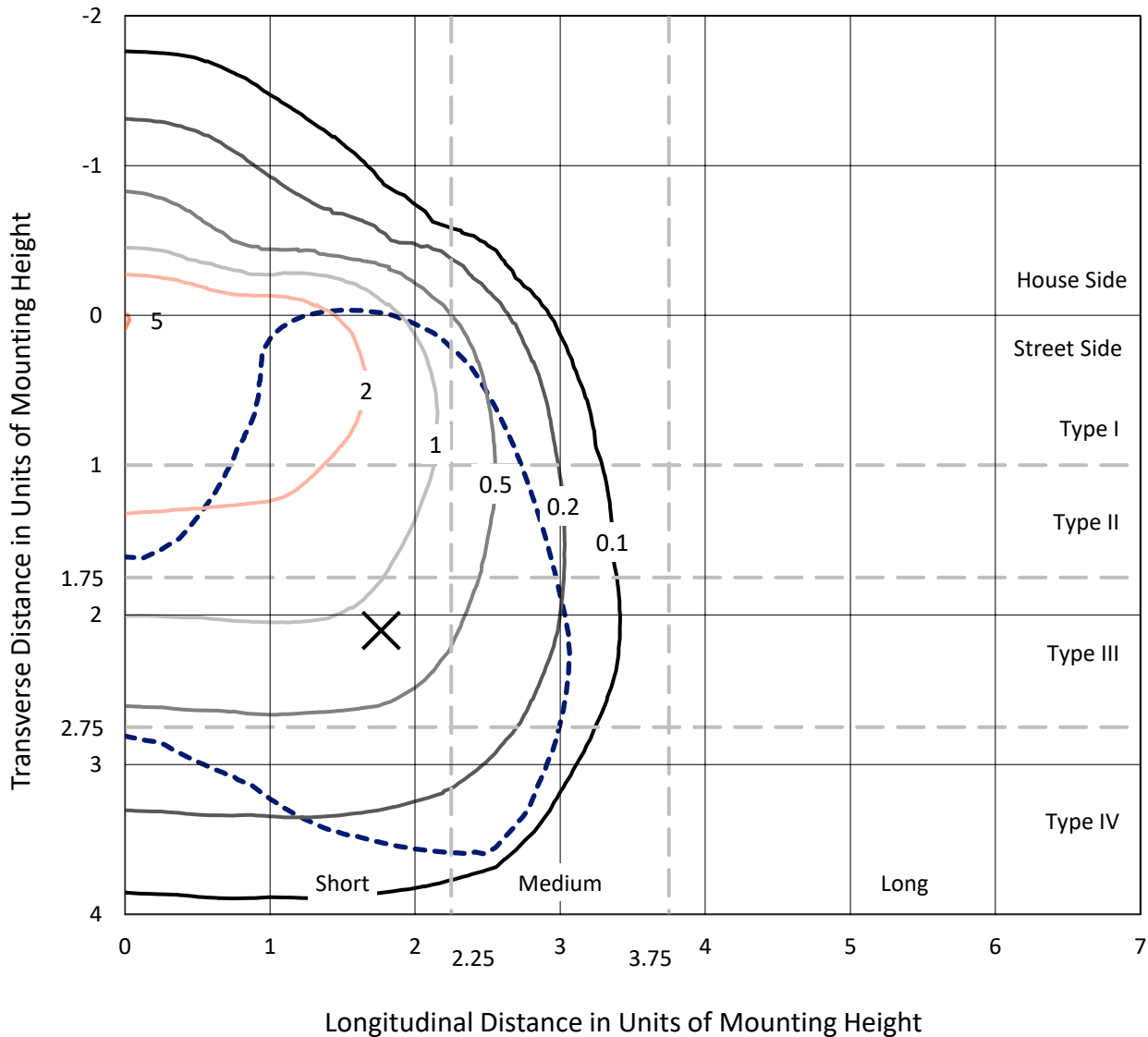
Lumens per Lamp: N/A  
Luminaire Lumens: 18654 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

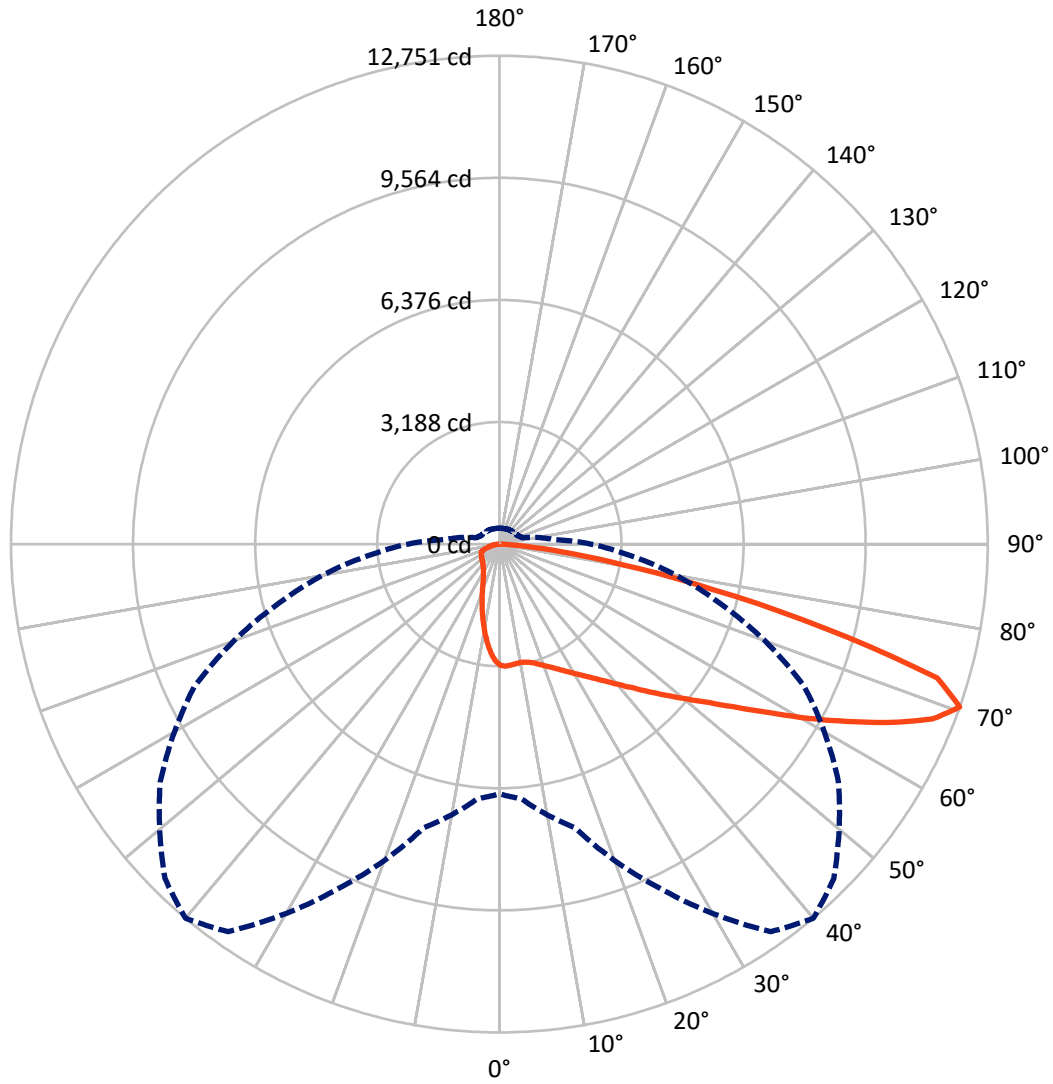
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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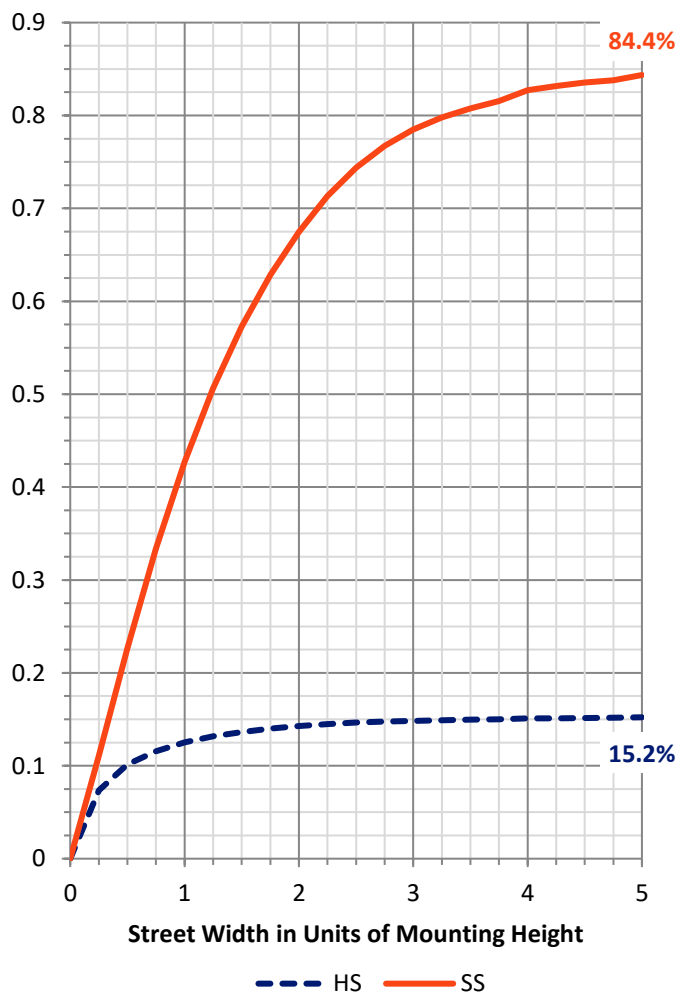
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2873.2	0.0	2873.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	15780.8	0.0	15780.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	18654.0	0.0	18654.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.8	1.5
10°-20°	729.4	3.9
20°-30°	1145.3	6.1
30°-40°	1722.0	9.2
40°-50°	2658.0	14.2
50°-60°	3947.3	21.2
60°-70°	4975.5	26.7
70°-80°	2877.3	15.4
80°-90°	319.3	1.7
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°	18654.0	100.0
0°-180°	18654.0	100.0

**Coefficient of Utilization**



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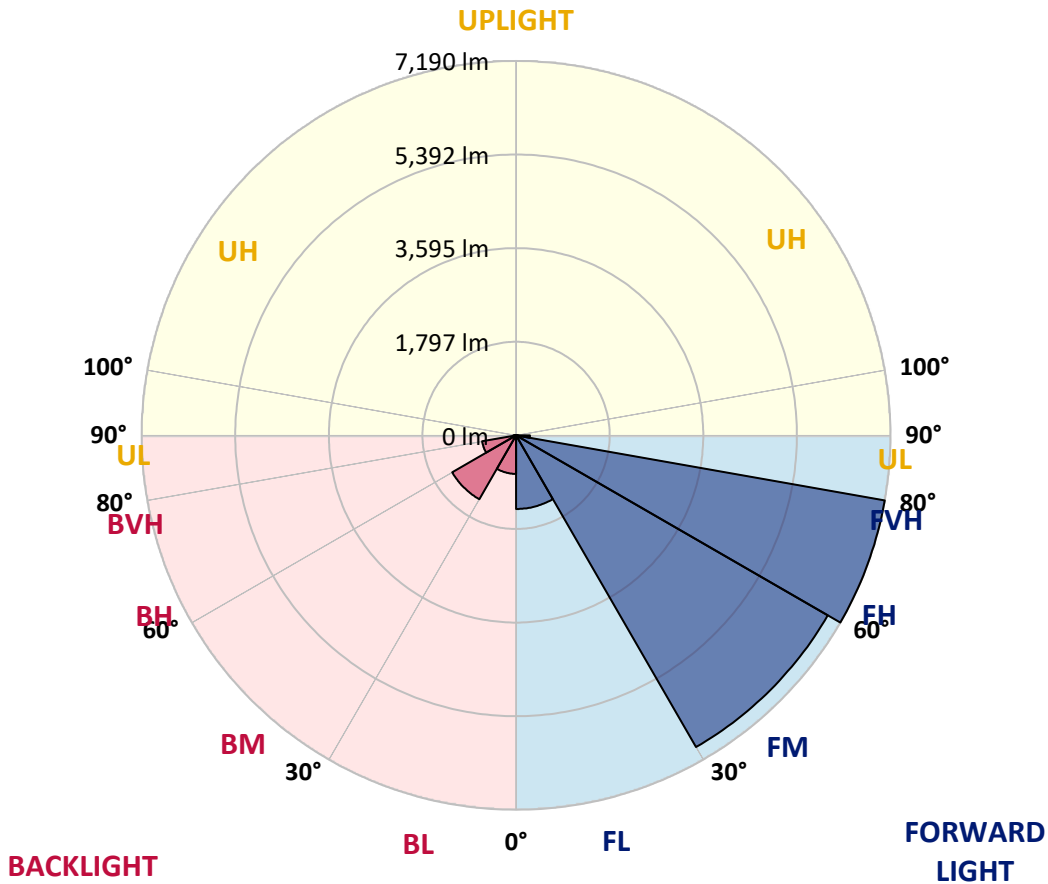
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.1	7.6			
FM (30°-60°)	6911.1	37.0			
FH (60°-80°)	7189.7	38.5			G3/7500
FVH (80°-90°)	265.9	1.4			G3/500
BL (0°-30°)	740.5	4.0	B2/1000		
BM (30°-60°)	1416.2	7.6	B2/2500		
BH (60°-80°)	663.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	53.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7
2.5°	3187.2	3192.7	3196.9	3202.5	3199.7	3191.3	3198.3	3198.3	3183.0	3166.3	3151.0
5°	3191.3	3198.3	3196.9	3195.5	3184.4	3170.4	3170.4	3162.1	3135.6	3109.2	3084.1
7.5°	3183.0	3181.6	3180.2	3176.0	3163.5	3148.2	3145.4	3128.7	3093.9	3057.7	3021.5
10°	3145.4	3144.0	3148.2	3157.9	3155.1	3141.2	3141.2	3125.9	3085.5	3041.0	2993.6
12.5°	3114.8	3114.8	3131.5	3157.9	3167.7	3162.1	3163.5	3152.3	3106.4	3053.5	2997.8
15°	3118.9	3120.3	3156.5	3199.7	3217.8	3213.6	3215.0	3202.5	3151.0	3098.0	3022.9
17.5°	3146.8	3153.7	3216.4	3276.3	3299.9	3294.4	3284.6	3263.7	3205.3	3145.4	3053.5
20°	3205.3	3216.4	3297.2	3372.3	3400.2	3387.7	3371.0	3329.2	3265.1	3199.7	3086.9
22.5°	3320.8	3327.8	3416.9	3490.7	3513.0	3497.7	3464.2	3404.4	3330.6	3262.3	3127.3
25°	3483.7	3492.1	3577.0	3645.2	3639.7	3621.6	3575.6	3501.8	3414.1	3341.7	3185.8
27.5°	3677.3	3691.2	3774.7	3829.0	3792.8	3766.4	3714.9	3625.8	3526.9	3461.5	3274.9
30°	3888.9	3894.5	3965.5	4019.8	3964.1	3927.9	3865.2	3769.2	3680.1	3631.3	3408.5
32.5°	4093.6	4099.2	4160.4	4191.1	4132.6	4106.1	4051.8	3950.2	3887.5	3861.1	3607.7
35°	4309.4	4308.0	4358.1	4384.6	4324.7	4313.6	4257.9	4179.9	4168.8	4203.6	3898.7
37.5°	4525.2	4512.7	4539.2	4574.0	4540.5	4551.7	4515.5	4489.0	4532.2	4622.7	4285.7
40°	4697.9	4697.9	4725.7	4768.9	4780.0	4828.8	4807.9	4842.7	4981.9	5197.8	4764.7
42.5°	4851.0	4852.4	4910.9	4977.8	5058.5	5133.7	5150.4	5240.9	5529.1	5867.5	5366.2
45°	5011.2	5012.6	5091.9	5189.4	5360.7	5504.1	5537.5	5740.8	6152.9	6565.1	6019.3
47.5°	5196.4	5181.0	5291.0	5454.0	5697.6	5903.7	5990.0	6278.2	6799.0	7305.8	6634.7
50°	5405.2	5373.2	5495.7	5777.0	6077.7	6360.4	6505.2	6835.2	7492.4	7989.5	7213.9
52.5°	5640.5	5622.4	5750.5	6093.1	6552.5	6878.4	7074.7	7507.7	8166.3	8670.3	7673.4
55°	5932.9	5889.8	6075.0	6510.8	7109.5	7524.4	7756.9	8173.3	8902.9	9288.6	8024.3
57.5°	6253.2	6205.8	6453.7	7032.9	7833.5	8288.8	8579.8	8922.4	9596.3	9762.0	8230.4
60°	6598.5	6583.2	6877.0	7645.6	8696.8	9225.9	9436.2	9746.7	10199.2	10036.3	8178.8
62.5°	6914.6	6909.0	7336.4	8309.7	9611.6	10193.6	10360.7	10442.8	10633.6	10018.2	7769.5
65°	7247.3	7294.7	7872.5	9079.7	10660.1	11230.9	11300.6	11091.7	10779.8	9543.4	6931.3
67.5°	7289.1	7381.0	8209.5	9801.0	11654.2	12193.1	12137.4	11338.1	10348.2	8222.0	5433.1
70°	6519.1	6679.2	7672.0	9911.0	12354.6	12751.4	12349.0	10807.6	8781.7	5956.6	3416.9
72.5°	5447.0	5584.8	6462.0	8451.7	11450.9	11956.4	11411.9	9147.9	6205.8	3416.9	1740.5
75°	4239.8	4399.9	5208.9	6718.2	8572.9	8774.8	8501.9	6379.9	3411.3	1409.1	790.9
77.5°	2587.0	2702.6	3332.0	4551.7	5998.4	5696.2	4827.4	3577.0	1496.8	675.3	488.7
80°	1144.5	1215.5	1641.6	2445.0	3465.6	3276.3	2582.9	1527.4	818.7	428.9	341.1
82.5°	614.0	660.0	809.0	967.7	1521.9	1591.5	1290.7	880.0	440.0	245.1	194.9
85°	270.1	296.6	367.6	350.9	499.9	491.5	495.7	604.3	210.2	112.8	126.7
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	15.3	80.8	20.9	33.4	29.2
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°	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7
2.5°	3134.2	3109.2	3102.2	3093.9	3078.6	3052.1	3032.6	3010.3	3000.6	2989.4	2990.8
5°	3056.3	3025.6	2996.4	2958.8	2911.5	2858.6	2822.4	2780.6	2758.3	2737.4	2743.0
7.5°	2989.4	2942.1	2882.2	2802.9	2717.9	2623.2	2546.7	2486.8	2446.4	2418.6	2432.5
10°	2947.7	2892.0	2787.5	2658.1	2514.6	2369.8	2259.8	2156.8	2092.7	2042.6	2039.8
12.5°	2939.3	2866.9	2715.1	2527.2	2319.7	2126.2	1964.6	1825.4	1740.5	1677.8	1701.5
15°	2947.7	2855.8	2652.5	2406.0	2144.3	1882.5	1682.0	1521.9	1420.2	1363.1	1359.0
17.5°	2957.4	2844.6	2581.5	2275.1	1960.5	1661.1	1428.6	1258.7	1154.3	1097.2	1098.6
20°	2965.8	2827.9	2497.9	2131.7	1773.9	1455.0	1214.2	1052.6	959.3	917.6	924.5
22.5°	2979.7	2811.2	2408.8	1978.6	1583.1	1255.9	1044.3	913.4	857.7	829.9	831.3
25°	3006.1	2801.5	2316.9	1811.5	1395.2	1097.2	927.3	839.6	804.8	788.1	786.7
27.5°	3060.4	2809.8	2220.8	1650.0	1225.3	976.1	852.1	795.0	771.4	760.2	758.8
30°	3151.0	2843.2	2137.3	1485.7	1079.1	881.4	800.6	765.8	751.9	742.1	740.7
32.5°	3288.8	2905.9	2046.8	1332.5	960.7	811.8	760.2	742.1	732.4	726.8	726.8
35°	3497.7	3020.1	1957.7	1198.8	868.8	757.5	728.2	721.3	712.9	710.1	712.9
37.5°	3798.4	3202.5	1876.9	1081.9	803.4	715.7	693.4	696.2	689.2	693.4	697.6
40°	4179.9	3446.1	1808.7	985.8	754.7	685.1	662.8	672.5	668.3	672.5	679.5
42.5°	4663.1	3748.3	1757.2	910.6	719.9	660.0	639.1	648.8	646.1	651.6	658.6
45°	5201.9	4146.5	1733.5	857.7	694.8	641.9	619.6	626.6	623.8	628.0	634.9
47.5°	5718.5	4508.5	1754.4	827.1	673.9	626.6	602.9	605.7	604.3	602.9	607.1
50°	6164.1	4796.7	1814.3	817.3	660.0	611.3	589.0	590.4	586.2	577.8	580.6
52.5°	6527.5	5027.9	1850.5	817.3	653.0	594.5	573.7	575.1	566.7	555.6	557.0
55°	6767.0	5121.2	1821.2	815.9	650.2	580.6	558.3	559.7	551.4	537.5	538.9
57.5°	6835.2	5030.7	1698.7	800.6	647.5	569.5	543.0	545.8	540.2	524.9	524.9
60°	6644.4	4699.3	1474.5	765.8	640.5	562.5	531.9	536.1	533.3	518.0	518.0
62.5°	6144.6	4110.3	1207.2	712.9	621.0	554.2	522.1	530.5	537.5	529.1	527.7
65°	5208.9	3293.0	981.6	654.4	595.9	540.2	508.2	529.1	544.4	555.6	555.6
67.5°	3908.4	2357.3	800.6	593.2	558.3	512.4	490.1	509.6	520.7	527.7	531.9
70°	2382.4	1386.8	630.7	522.1	504.0	470.6	453.9	434.4	419.1	416.3	417.7
72.5°	1165.4	793.7	512.4	444.2	430.2	399.6	362.0	353.7	346.7	342.5	341.1
75°	641.9	552.8	423.3	369.0	343.9	306.3	298.0	284.0	281.3	275.7	277.1
77.5°	453.9	435.8	349.5	299.4	261.8	242.3	246.5	236.7	236.7	232.5	231.1
80°	341.1	342.5	268.7	218.6	193.5	186.6	190.8	190.8	188.0	186.6	185.2
82.5°	215.8	243.7	181.0	140.6	137.8	139.2	137.8	136.5	139.2	135.1	133.7
85°	149.0	175.4	110.0	83.5	83.5	82.2	84.9	83.5	86.3	82.2	82.2
87.5°	33.4	78.0	40.4	25.1	26.5	25.1	26.5	27.8	30.6	32.0	32.0
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)