

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: P636497

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
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-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

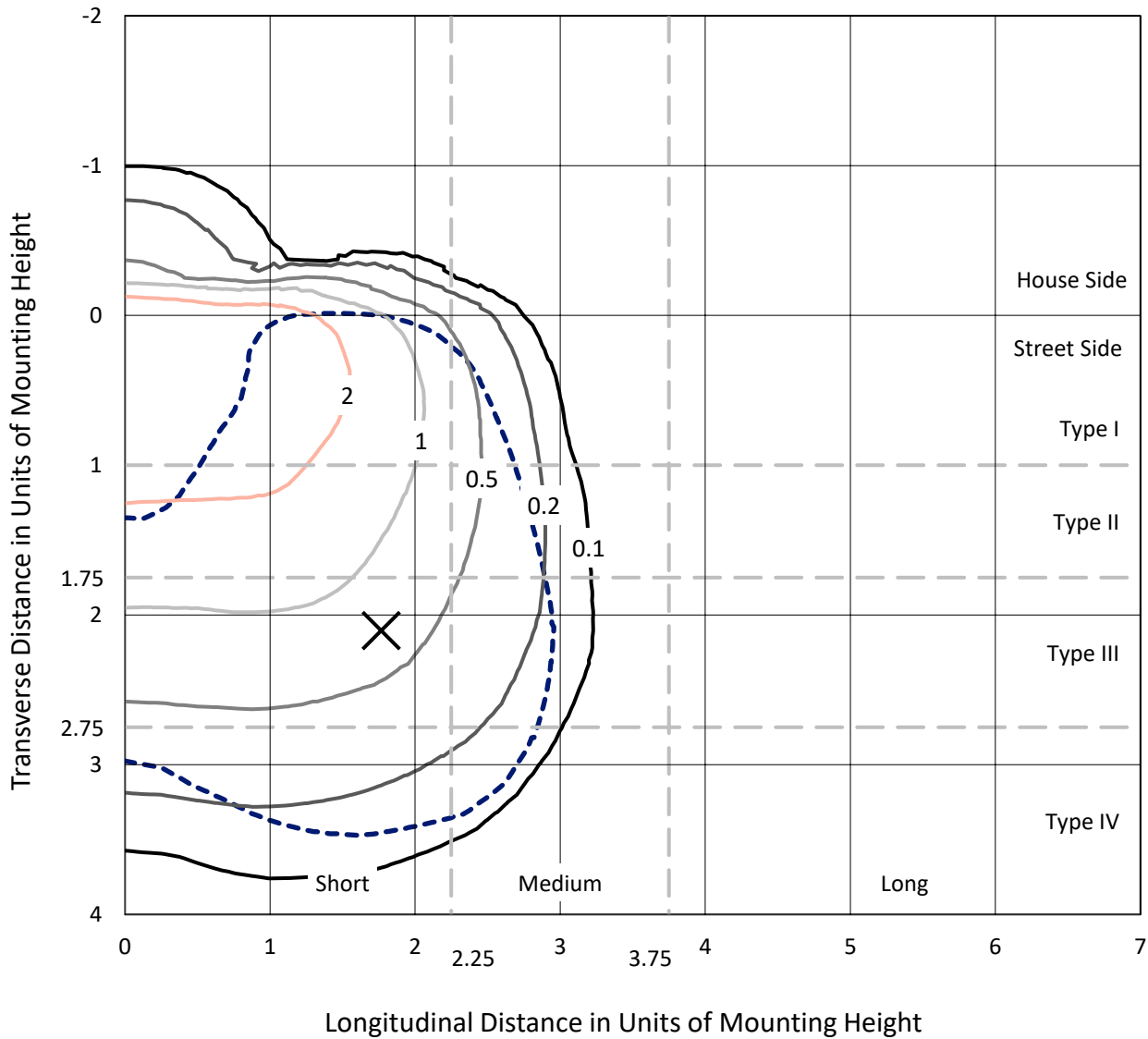
Lumens per Lamp: N/A  
Luminaire Lumens: 15303.9 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

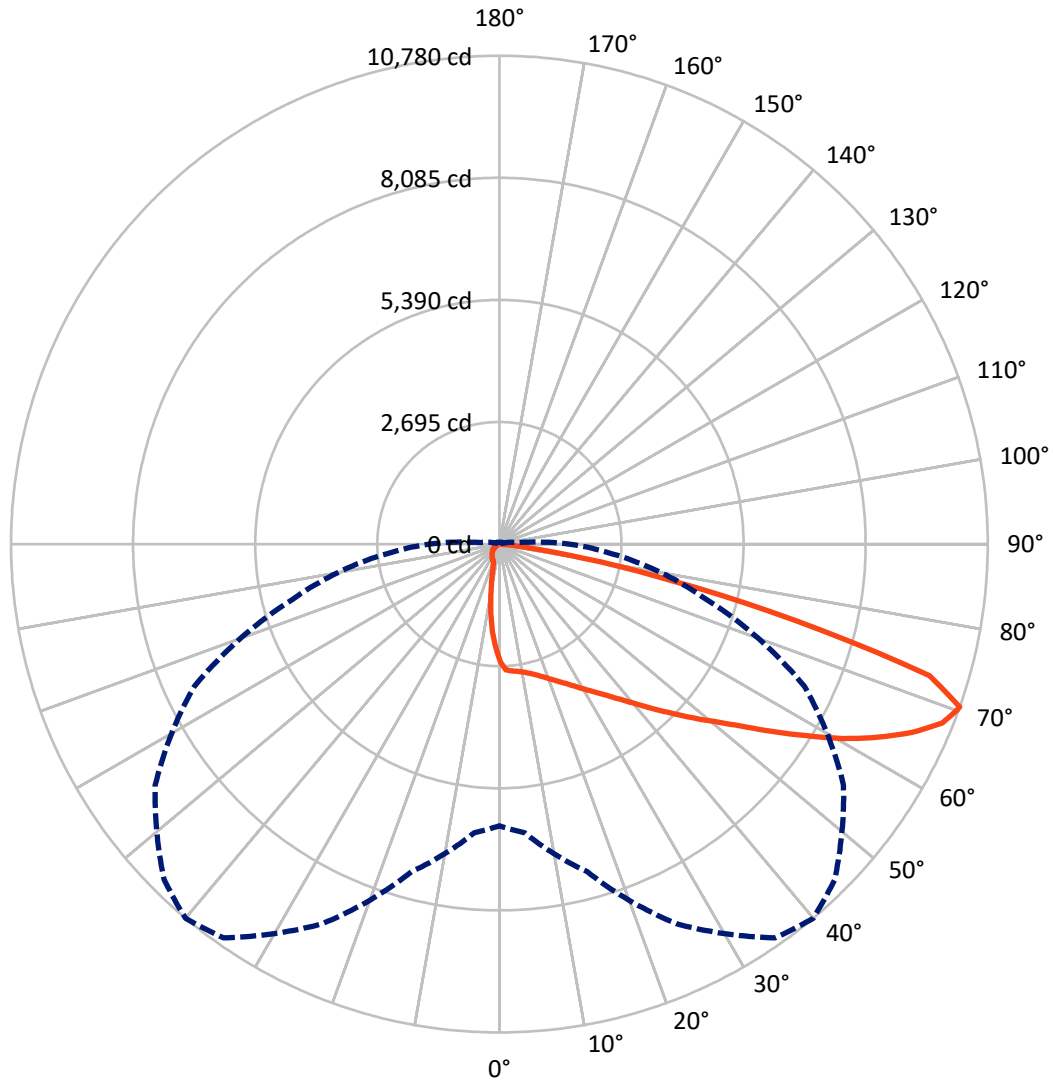
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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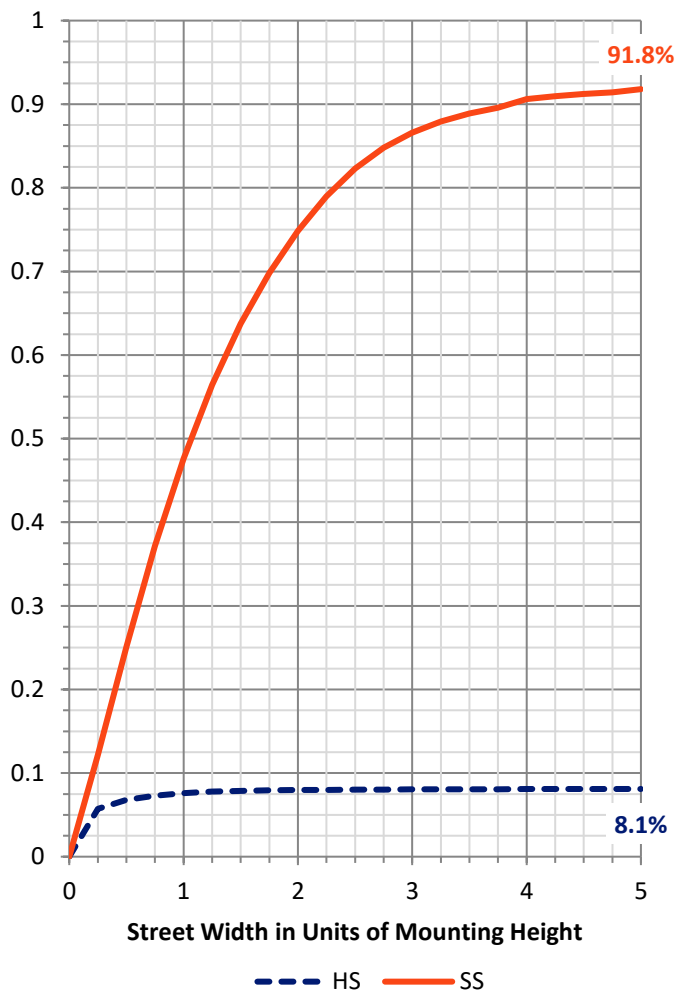
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1251.5	0.0	1251.5
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	14052.4	0.0	14052.4
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	15303.9	0.0	15303.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	1.4
10°-20°	556.7	3.6
20°-30°	931.7	6.1
30°-40°	1463.3	9.6
40°-50°	2314.7	15.1
50°-60°	3376.5	22.1
60°-70°	4185.6	27.4
70°-80°	2117.7	13.8
80°-90°	138.3	0.9
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°	15303.9	100.0
0°-180°	15303.9	100.0

**Coefficient of Utilization**



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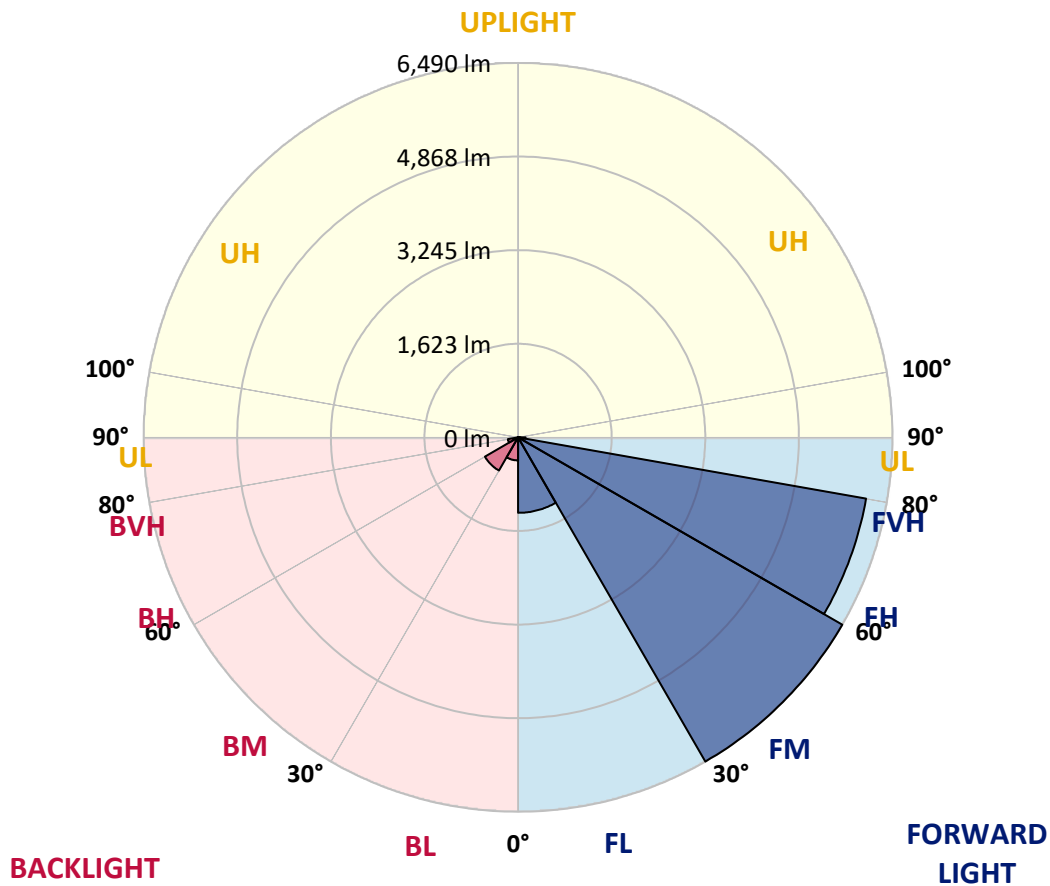
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1308.2	8.5			
FM (30°-60°)	6490.2	42.4			
FH (60°-80°)	6124.9	40.0			G3/7500
FVH (80°-90°)	129.1	0.8			G2/225
BL (0°-30°)	399.6	2.6	B1/500		
BM (30°-60°)	664.3	4.3	B1/1000		
BH (60°-80°)	178.4	1.2	B1/500		G1/500
BVH (80°-90°)	9.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9
2.5°	2791.8	2801.6	2800.2	2804.4	2794.6	2779.3	2776.5	2755.6	2718.0	2670.7	2617.8
5°	2848.9	2860.1	2851.7	2847.5	2829.4	2812.7	2808.5	2786.3	2743.1	2679.0	2587.1
7.5°	2897.7	2900.4	2894.9	2885.1	2858.7	2836.4	2821.1	2790.4	2738.9	2674.9	2569.0
10°	2906.0	2904.6	2907.4	2908.8	2892.1	2872.6	2860.1	2818.3	2752.8	2684.6	2570.4
12.5°	2896.3	2896.3	2914.4	2935.2	2935.2	2925.5	2913.0	2875.4	2798.8	2718.0	2598.3
15°	2908.8	2913.0	2947.8	2986.8	2999.3	2989.6	2984.0	2945.0	2865.6	2776.5	2648.4
17.5°	2953.4	2957.5	3013.2	3071.7	3087.0	3075.9	3064.7	3025.8	2940.8	2843.3	2705.5
20°	3018.8	3029.9	3100.9	3176.1	3190.1	3176.1	3153.9	3099.6	3014.6	2915.8	2759.8
22.5°	3138.5	3145.5	3222.1	3301.5	3308.4	3286.1	3252.7	3177.5	3088.4	2992.3	2821.1
25°	3297.3	3307.0	3383.6	3460.2	3442.1	3408.7	3362.7	3277.8	3176.1	3082.8	2899.0
27.5°	3486.7	3497.8	3573.0	3639.8	3592.5	3553.5	3502.0	3396.1	3293.1	3208.2	2999.3
30°	3691.3	3701.1	3767.9	3827.8	3765.1	3719.2	3657.9	3549.3	3444.9	3380.8	3141.3
32.5°	3889.1	3887.7	3951.7	4000.5	3936.4	3900.2	3844.5	3734.5	3651.0	3623.1	3353.0
35°	4072.9	4072.9	4125.8	4174.5	4128.6	4109.1	4057.6	3969.8	3922.5	3955.9	3635.6
37.5°	4258.1	4248.3	4298.4	4352.7	4348.6	4350.0	4320.7	4278.9	4281.7	4400.1	4024.1
40°	4411.2	4407.1	4465.5	4536.5	4592.2	4636.8	4618.7	4634.0	4721.7	4943.1	4521.2
42.5°	4533.8	4543.5	4618.7	4731.5	4872.1	4962.6	4975.2	5037.8	5263.4	5605.9	5082.4
45°	4674.4	4675.8	4780.2	4952.9	5177.1	5320.5	5370.6	5532.1	5852.4	6293.8	5697.8
47.5°	4847.1	4830.4	4947.3	5189.6	5514.0	5725.7	5814.8	6016.7	6512.4	6965.0	6199.1
50°	5037.8	5007.2	5139.5	5469.5	5891.4	6155.9	6337.0	6632.2	7166.9	7516.4	6572.3
52.5°	5259.2	5230.0	5380.4	5791.1	6343.9	6665.6	6898.1	7196.1	7728.0	7936.9	6795.1
55°	5540.5	5511.3	5670.0	6176.8	6878.6	7296.4	7540.0	7790.7	8250.2	8247.4	6956.6
57.5°	5852.4	5812.0	6032.0	6664.2	7545.6	7980.0	8227.9	8350.4	8647.0	8488.3	7065.2
60°	6210.3	6174.0	6479.0	7244.8	8315.6	8718.0	8874.0	8823.9	8972.8	8630.3	7027.6
62.5°	6533.3	6516.6	6895.3	7860.3	9049.4	9389.2	9432.3	9213.7	9212.3	8633.1	6774.2
65°	6868.9	6900.9	7463.4	8569.0	9787.4	10015.8	9942.0	9600.8	9308.4	8291.9	6025.1
67.5°	6994.2	7087.5	7838.0	9209.6	10369.5	10547.7	10418.2	9794.4	8908.8	7144.6	4588.1
70°	6220.0	6395.4	7484.3	9245.8	10610.3	10780.2	10469.7	9273.6	7427.2	4732.9	2513.3
72.5°	4730.1	4934.8	6236.7	7570.7	9542.3	9929.4	9398.9	7555.3	4787.2	2073.3	843.8
75°	2647.0	2868.4	4645.2	5700.6	6406.6	6760.3	6565.3	4847.1	2120.7	541.7	252.0
77.5°	895.3	969.1	2161.1	3527.0	4228.8	3911.3	3311.2	2407.5	779.8	206.1	133.7
80°	530.5	558.4	804.8	1755.9	2225.1	1845.0	1456.5	889.8	396.8	110.0	93.3
82.5°	158.7	188.0	444.2	651.7	871.7	543.0	459.5	508.2	206.1	59.9	78.0
85°	0.0	0.0	94.7	201.9	228.4	89.1	89.1	288.2	37.6	25.1	57.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	4.2	5.6	12.5
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°	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9	2596.9
2.5°	2580.2	2531.4	2474.4	2420.0	2368.5	2301.7	2269.7	2230.7	2197.3	2179.2	2188.9
5°	2528.7	2452.1	2335.1	2216.8	2097.0	1984.2	1882.6	1814.3	1753.1	1721.0	1728.0
7.5°	2484.1	2381.1	2198.7	2005.1	1812.9	1619.4	1462.1	1339.5	1244.8	1205.8	1198.9
10°	2464.6	2335.1	2077.5	1799.0	1503.8	1243.4	1020.7	885.6	789.5	742.2	750.5
12.5°	2474.4	2311.4	1974.5	1597.1	1214.2	910.7	697.6	570.9	502.7	474.8	467.9
15°	2502.2	2305.9	1882.6	1391.0	937.1	636.3	481.8	430.3	416.3	413.6	413.6
17.5°	2534.2	2307.3	1787.9	1182.2	711.5	472.0	412.2	402.4	398.2	395.5	396.8
20°	2566.3	2307.3	1679.3	970.5	534.7	408.0	392.7	385.7	381.5	380.1	380.1
22.5°	2605.2	2307.3	1558.1	774.2	428.9	387.1	374.6	370.4	366.2	364.8	363.4
25°	2652.6	2308.7	1424.5	605.7	389.9	369.0	359.2	355.1	350.9	348.1	348.1
27.5°	2720.8	2319.8	1276.9	472.0	367.6	352.3	343.9	339.8	335.6	331.4	331.4
30°	2819.7	2347.6	1111.2	389.9	346.7	334.2	325.8	323.0	318.9	314.7	313.3
32.5°	2967.3	2396.4	939.9	349.5	327.2	314.7	304.9	302.2	298.0	293.8	292.4
35°	3173.4	2485.5	772.8	324.4	302.2	289.6	284.1	282.7	277.1	272.9	272.9
37.5°	3475.5	2630.3	612.7	299.4	281.3	271.5	264.6	261.8	256.2	252.0	250.6
40°	3844.5	2818.3	476.2	279.9	261.8	252.0	245.1	240.9	233.9	228.4	225.6
42.5°	4315.2	3048.0	376.0	259.0	243.7	233.9	228.4	220.0	210.3	201.9	200.5
45°	4805.3	3284.8	310.5	239.5	227.0	218.6	211.6	200.5	186.6	176.8	174.1
47.5°	5181.2	3432.3	271.5	218.6	208.9	201.9	193.5	179.6	162.9	151.8	149.0
50°	5450.0	3454.6	242.3	199.1	193.5	186.6	174.1	157.3	139.2	128.1	125.3
52.5°	5582.3	3354.4	218.6	181.0	176.8	169.9	154.6	136.5	117.0	105.8	103.0
55°	5642.1	3165.0	196.3	165.7	160.1	151.8	135.1	115.6	96.1	86.3	83.5
57.5°	5618.5	2885.1	176.8	150.4	143.4	133.7	115.6	94.7	79.4	69.6	68.2
60°	5443.0	2492.5	157.3	135.1	126.7	115.6	97.5	78.0	64.1	57.1	55.7
62.5°	5064.3	2005.1	137.9	117.0	111.4	100.3	83.5	64.1	52.9	48.7	47.3
65°	4288.7	1417.5	118.4	98.9	96.1	84.9	69.6	52.9	46.0	43.2	41.8
67.5°	3082.8	861.9	100.3	84.9	82.2	72.4	58.5	46.0	41.8	40.4	40.4
70°	1549.8	408.0	79.4	69.6	69.6	59.9	50.1	41.8	40.4	39.0	39.0
72.5°	526.3	174.1	59.9	54.3	57.1	51.5	43.2	39.0	39.0	39.0	39.0
75°	179.6	91.9	41.8	39.0	41.8	41.8	37.6	37.6	39.0	39.0	39.0
77.5°	117.0	61.3	29.2	26.5	32.0	32.0	32.0	34.8	37.6	37.6	37.6
80°	96.1	33.4	19.5	18.1	23.7	23.7	26.5	32.0	34.8	34.8	34.8
82.5°	82.2	20.9	11.1	12.5	16.7	18.1	22.3	26.5	30.6	32.0	32.0
85°	55.7	11.1	8.4	9.7	11.1	13.9	18.1	22.3	25.1	27.8	27.8
87.5°	15.3	4.2	5.6	7.0	7.0	9.7	13.9	16.7	19.5	20.9	20.9
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)