

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: P634018

Luminaire Tested: GWS-SA2F-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-830-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

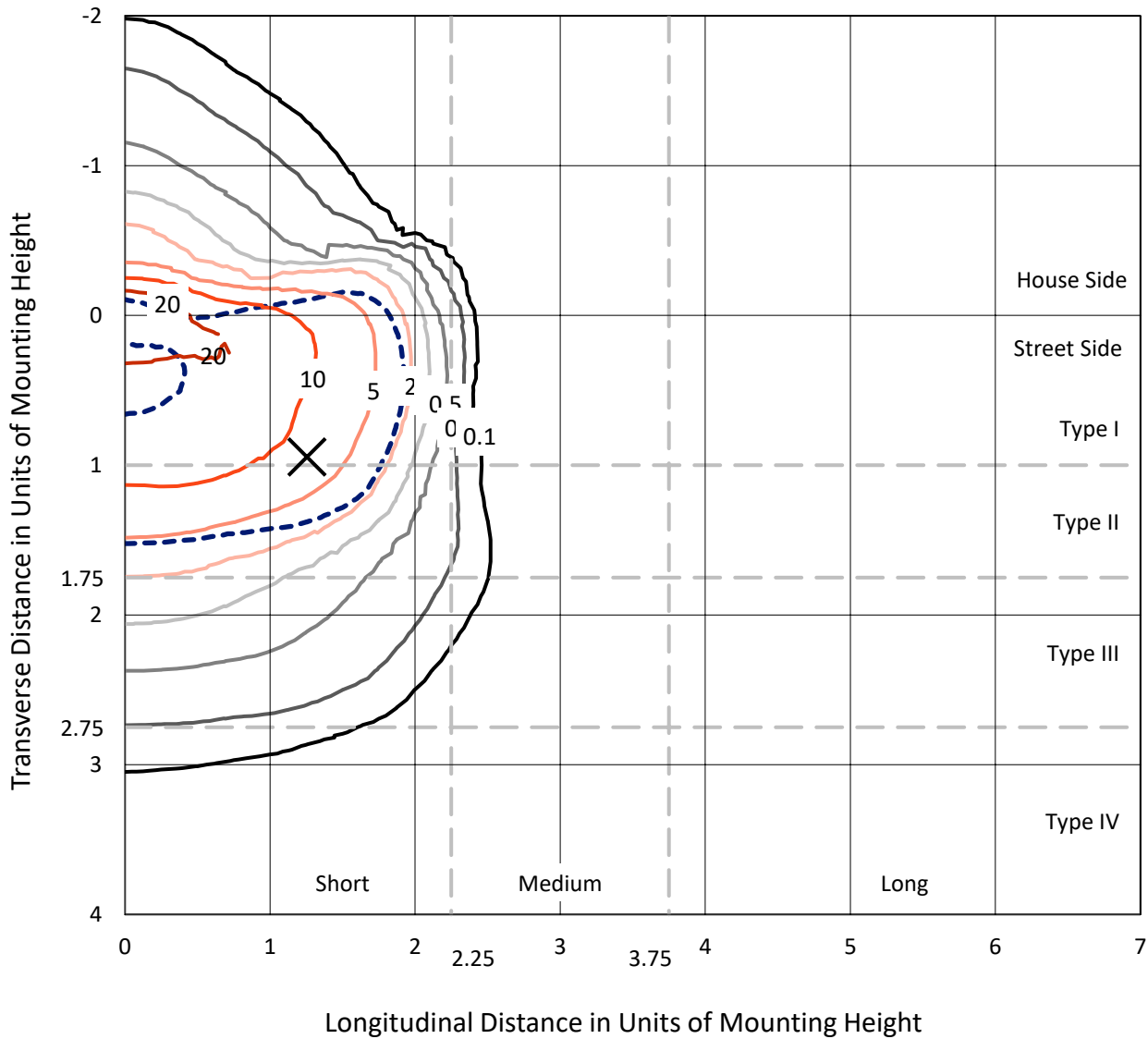
Lumens per Lamp: N/A  
Luminaire Lumens: 7537.6 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

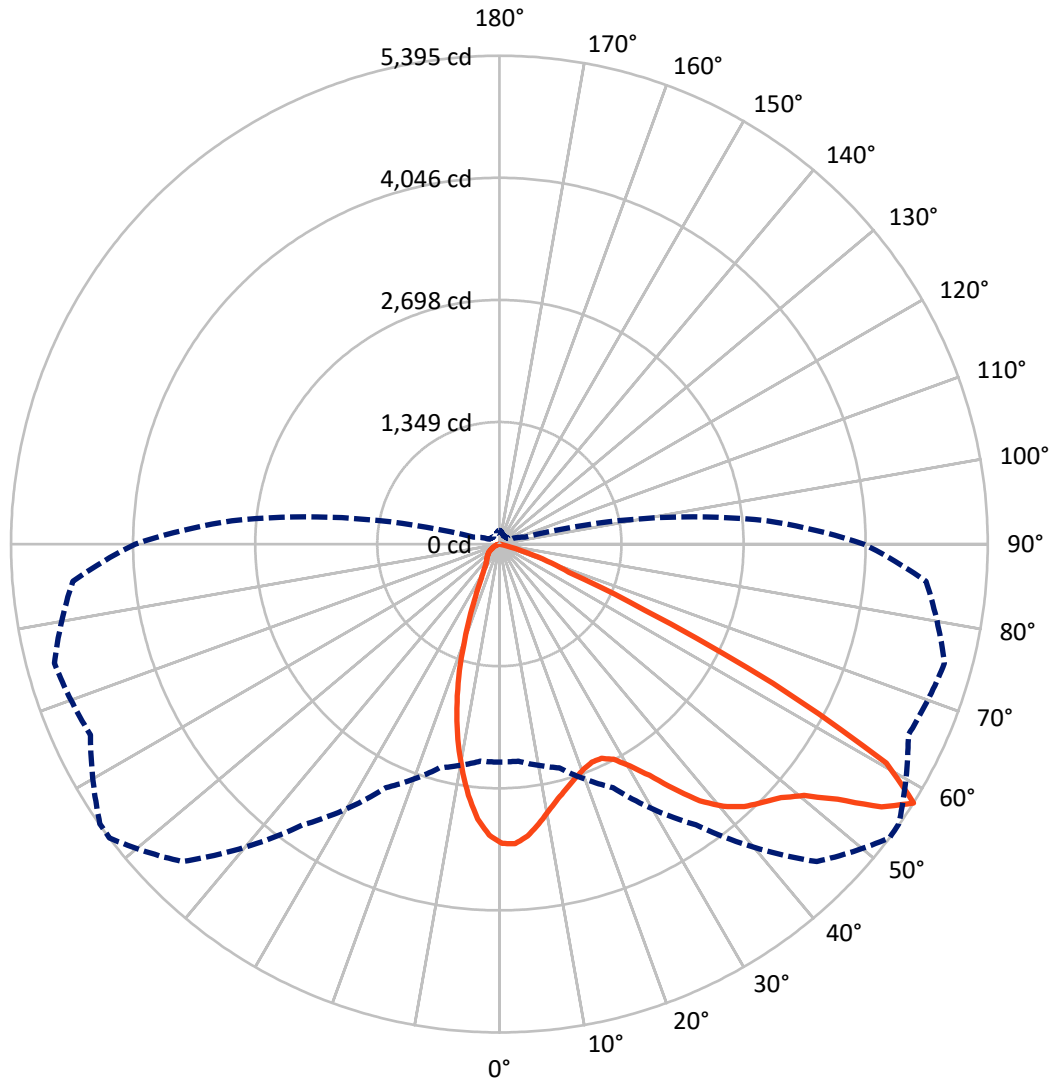
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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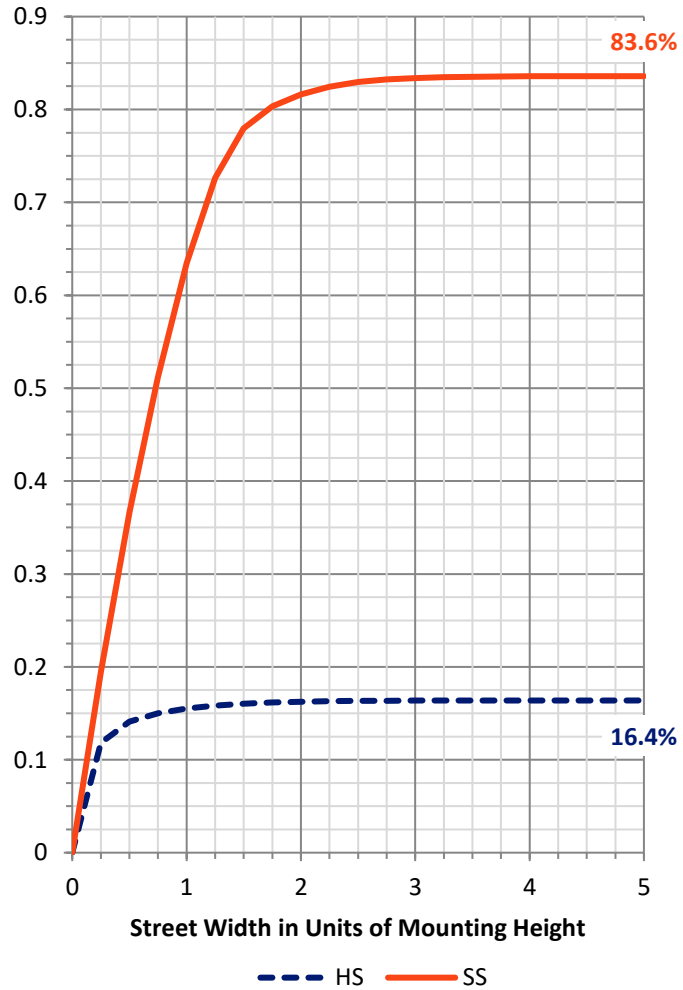
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1245.1	0.0	1245.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6292.5	0.0	6292.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	7537.6	0.0	7537.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.9	3.8
10°-20°	621.0	8.2
20°-30°	809.1	10.7
30°-40°	1173.6	15.6
40°-50°	1693.4	22.5
50°-60°	2048.0	27.2
60°-70°	834.7	11.1
70°-80°	75.0	1.0
80°-90°	0.0	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°	7537.6	100.0
0°-180°	7537.6	100.0

**Coefficient of Utilization**



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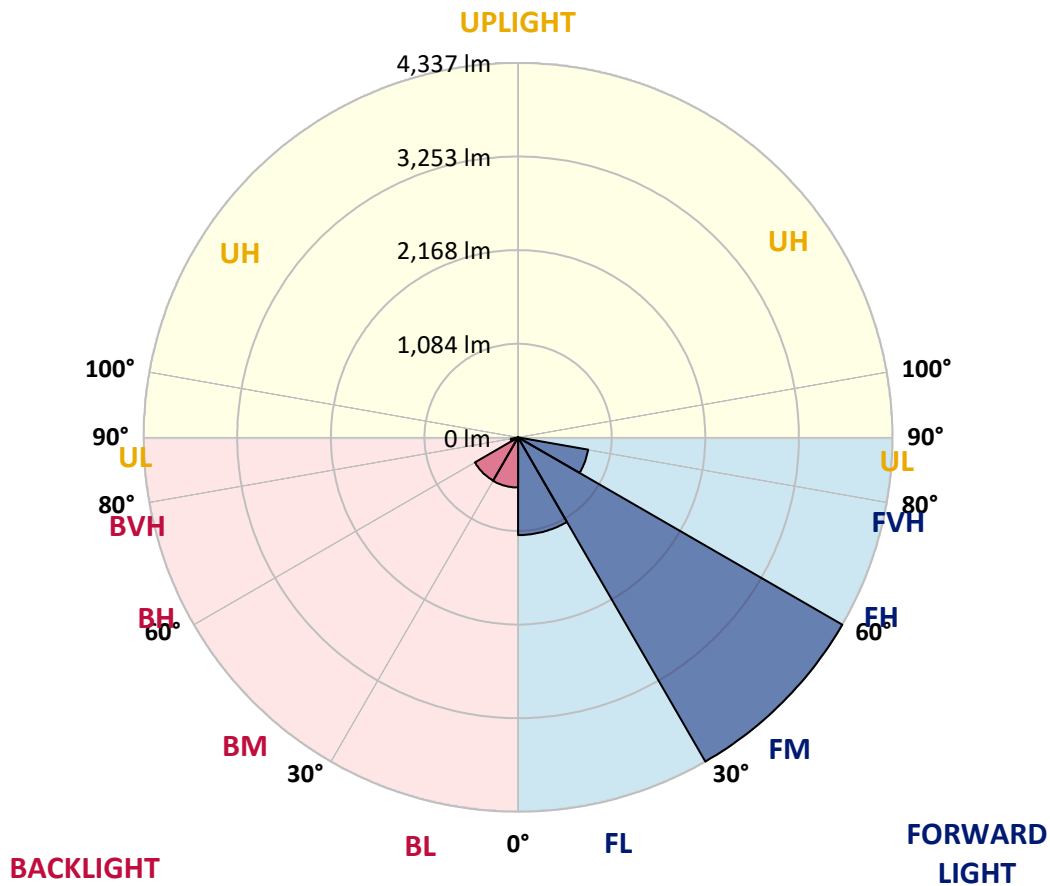
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.9	15.0			
FM (30°-60°)	4337.0	57.5			
FH (60°-80°)	823.6	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	581.1	7.7	B2/1000		
BM (30°-60°)	577.9	7.7	B1/1000		
BH (60°-80°)	86.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4
2.5°	3260.2	3267.6	3280.6	3297.2	3308.3	3313.8	3313.8	3329.5	3319.4	3311.0	3301.8
5°	3120.7	3128.1	3145.7	3172.5	3199.3	3218.7	3240.8	3257.5	3263.9	3263.9	3248.2
7.5°	2924.0	2934.1	2945.2	2982.2	3040.4	3083.8	3121.7	3145.7	3180.8	3191.9	3169.7
10°	2712.4	2722.6	2747.5	2798.3	2864.8	2929.5	2994.2	3024.7	3084.7	3116.1	3091.2
12.5°	2533.2	2537.8	2571.0	2632.0	2717.0	2805.7	2884.2	2915.6	3000.6	3047.7	3018.2
15°	2385.4	2388.1	2421.4	2488.8	2586.8	2695.8	2794.6	2826.9	2931.3	3002.5	2958.1
17.5°	2273.6	2274.5	2303.1	2376.1	2478.7	2599.7	2717.0	2756.7	2891.6	2977.5	2911.0
20°	2217.2	2214.4	2234.8	2298.5	2395.5	2516.5	2655.1	2704.1	2869.4	2973.8	2875.0
22.5°	2218.1	2211.7	2220.0	2265.3	2347.5	2461.1	2616.3	2671.7	2871.3	2989.5	2844.5
25°	2270.8	2261.6	2263.4	2287.4	2345.6	2449.1	2621.9	2681.0	2908.2	3042.2	2833.4
27.5°	2359.5	2349.3	2349.3	2361.3	2392.7	2487.0	2691.1	2758.6	3007.1	3144.7	2856.5
30°	2474.0	2463.9	2460.2	2472.2	2498.1	2584.9	2845.4	2915.6	3176.2	3312.9	2930.4
32.5°	2605.2	2593.2	2599.7	2616.3	2641.3	2761.4	3044.1	3137.4	3387.7	3539.2	3063.5
35°	2743.8	2733.6	2763.2	2799.2	2838.0	3006.2	3318.4	3399.7	3647.3	3821.0	3266.7
37.5°	2875.9	2871.3	2933.2	3008.9	3089.3	3300.0	3597.4	3660.3	3870.0	4127.7	3515.2
40°	3008.0	3007.1	3113.3	3246.4	3374.8	3592.8	3809.0	3860.7	4005.8	4366.1	3753.6
42.5°	3155.8	3155.8	3302.7	3480.1	3651.0	3840.4	3964.2	3987.3	4066.7	4503.7	3932.8
45°	3297.2	3305.5	3475.5	3681.5	3883.8	4033.5	4071.4	4073.2	4091.7	4585.0	4081.5
47.5°	3409.0	3416.4	3619.6	3857.0	4075.1	4180.4	4185.9	4177.6	4157.3	4662.6	4196.1
50°	3499.5	3510.6	3723.1	3974.4	4206.2	4321.7	4364.2	4355.9	4304.2	4745.8	4276.5
52.5°	3543.8	3559.6	3759.1	4032.6	4352.2	4563.8	4682.0	4701.4	4524.0	4792.0	4353.1
55°	3189.1	3212.2	3396.0	3770.2	4433.5	4937.9	5123.6	5119.9	4762.4	4929.6	4539.7
57.5°	2408.4	2406.6	2559.0	2968.3	3786.8	4959.2	5395.2	5387.8	4985.0	5089.4	4731.0
60°	1639.8	1628.7	1669.4	1867.1	2647.7	4039.9	4910.2	5010.0	4827.1	4701.4	4016.9
62.5°	1349.7	1339.6	1326.6	1272.1	1520.6	2516.5	3392.3	3543.8	3519.8	3267.6	2519.3
65°	1104.9	1113.2	1149.3	1126.2	1057.8	1290.6	1760.8	1850.5	1691.5	1423.6	880.4
67.5°	814.8	818.5	865.6	987.6	950.6	859.2	828.7	843.5	494.3	227.3	146.9
70°	481.3	484.1	527.5	691.0	771.4	659.6	559.8	551.5	195.9	61.0	66.5
72.5°	272.5	267.0	275.3	328.9	420.3	350.1	288.2	262.4	59.1	34.2	34.2
75°	129.3	125.6	108.1	101.6	92.4	59.1	37.0	31.4	14.8	13.9	13.9
77.5°	0.9	2.8	1.8	2.8	2.8	1.8	0.9	0.9	2.8	2.8	3.7
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4
2.5°	3285.2	3257.5	3251.0	3249.1	3223.3	3195.6	3166.9	3155.8	3139.2	3129.0	3137.4
5°	3223.3	3183.6	3148.4	3116.1	3058.8	2996.0	2941.5	2906.4	2873.1	2851.0	2856.5
7.5°	3135.5	3083.8	3003.4	2921.2	2815.9	2721.6	2616.3	2551.6	2491.6	2458.3	2474.0
10°	3042.2	2973.8	2845.4	2705.9	2540.6	2392.7	2242.2	2119.3	2048.2	1980.7	1988.1
12.5°	2950.7	2860.2	2668.0	2456.5	2247.7	2029.7	1802.4	1632.4	1516.0	1432.0	1419.0
15°	2865.7	2749.3	2495.3	2216.3	1931.7	1641.7	1351.6	1108.6	973.7	890.6	885.0
17.5°	2790.0	2645.9	2316.1	1965.0	1608.4	1237.0	903.5	721.5	643.9	607.9	604.2
20°	2717.0	2541.5	2133.1	1710.0	1255.5	868.4	623.6	539.5	514.6	499.8	501.6
22.5°	2646.8	2427.8	1941.0	1427.3	941.4	609.7	483.2	450.8	448.1	449.9	450.8
25°	2587.7	2323.5	1743.3	1154.8	671.6	464.7	403.7	394.5	402.8	414.8	416.7
27.5°	2557.2	2238.5	1550.2	880.4	485.9	377.9	350.1	353.8	368.6	381.5	383.4
30°	2565.5	2174.7	1350.7	638.4	374.2	318.7	309.5	316.9	331.7	343.7	345.5
32.5°	2624.6	2142.4	1146.5	464.7	307.6	278.1	274.4	279.9	292.9	302.1	303.0
35°	2742.0	2149.8	952.5	355.7	264.2	247.6	246.7	250.4	256.8	263.3	264.2
37.5°	2914.7	2209.8	761.2	295.6	239.3	227.3	223.6	223.6	228.2	231.0	232.8
40°	3100.4	2300.4	609.7	261.4	221.7	208.8	201.4	198.6	202.3	206.0	206.9
42.5°	3253.8	2390.9	495.2	237.4	207.9	190.3	181.1	179.2	183.8	190.3	192.2
45°	3371.1	2461.1	413.0	218.0	192.2	172.8	162.6	162.6	170.9	182.0	183.8
47.5°	3478.3	2517.5	352.0	200.5	177.4	157.1	146.9	148.7	162.6	177.4	180.1
50°	3551.2	2562.7	306.7	184.8	165.4	144.1	134.9	138.6	155.2	172.8	175.5
52.5°	3629.8	2618.2	277.2	170.9	154.3	134.0	125.6	128.4	146.9	166.3	170.0
55°	3846.9	2803.9	276.2	152.4	134.9	120.1	116.4	117.3	135.8	158.0	162.6
57.5°	4024.2	2967.4	294.7	128.4	112.7	105.3	103.5	104.4	121.0	146.0	151.5
60°	3329.5	2305.9	243.9	106.2	94.2	92.4	89.6	91.5	107.2	129.3	134.0
62.5°	1970.5	1318.3	116.4	81.3	80.4	78.5	75.8	79.5	94.2	113.6	116.4
65°	673.5	390.8	73.9	66.5	68.4	65.6	62.8	66.5	79.5	90.5	91.5
67.5°	129.3	103.5	59.1	55.4	56.4	50.8	49.9	53.6	61.0	62.8	61.9
70°	67.4	60.0	45.3	45.3	43.4	36.0	36.0	39.7	39.7	37.0	36.0
72.5°	35.1	33.3	29.6	33.3	27.7	22.2	22.2	24.0	22.2	18.5	18.5
75°	13.9	13.9	12.9	16.6	12.0	10.2	9.2	11.1	8.3	6.5	6.5
77.5°	3.7	3.7	3.7	4.6	2.8	2.8	1.8	1.8	0.9	0.0	0.0
80°	0.0	0.9	0.0	0.9	0.0	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)