

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: P637043

Luminaire Tested: GWS-SA4C-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637043  
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-SA4C-722-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

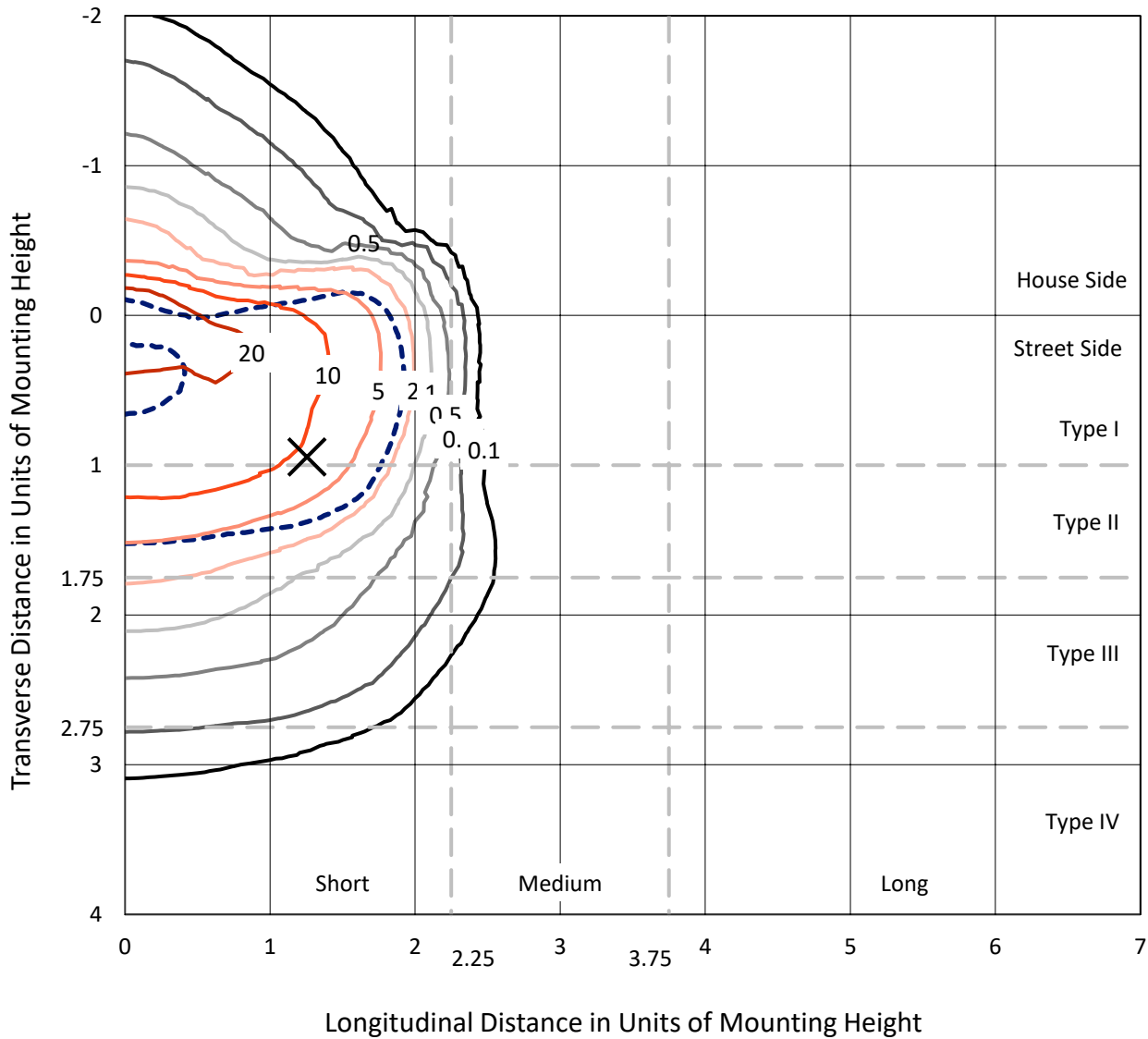
Lumens per Lamp: N/A  
Luminaire Lumens: 8363.1 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

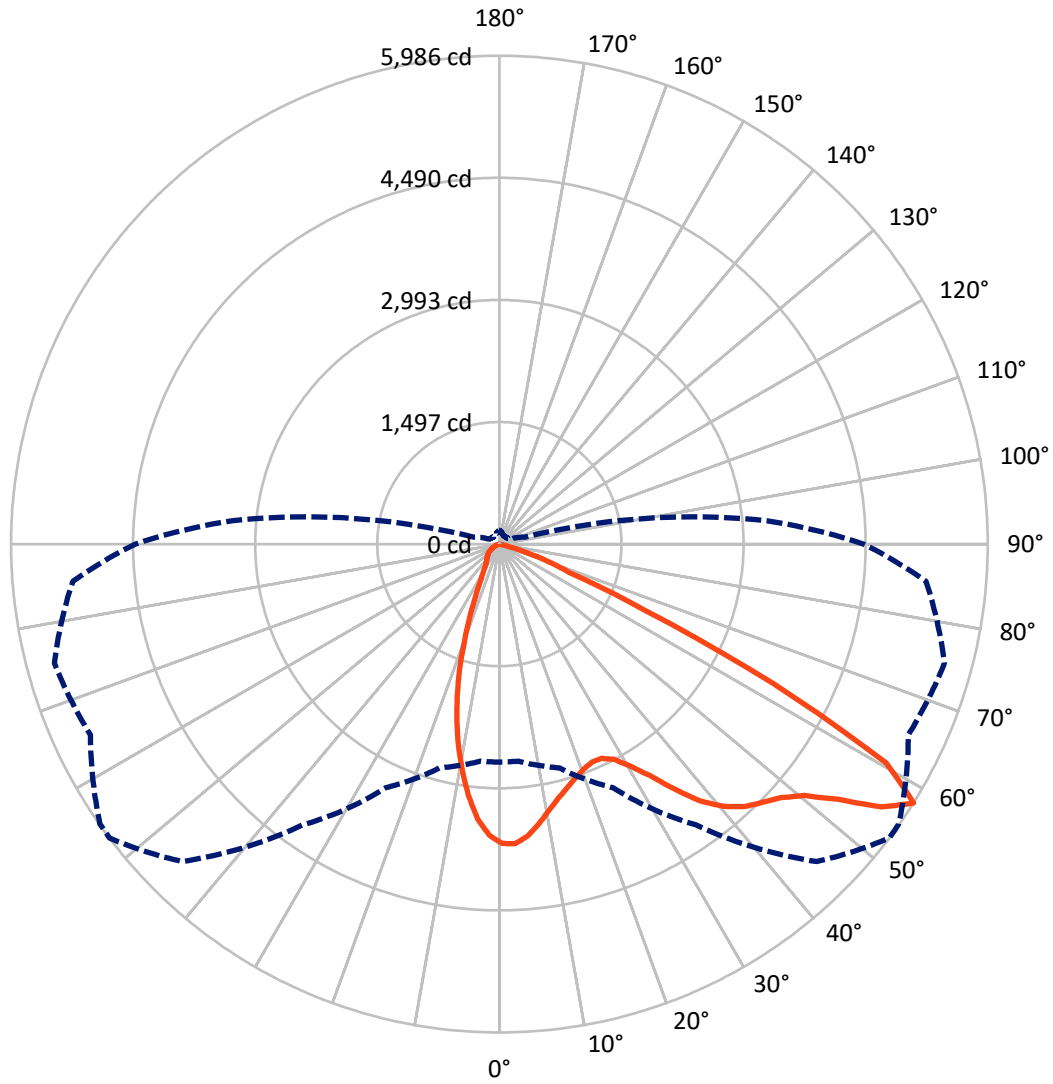
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.7 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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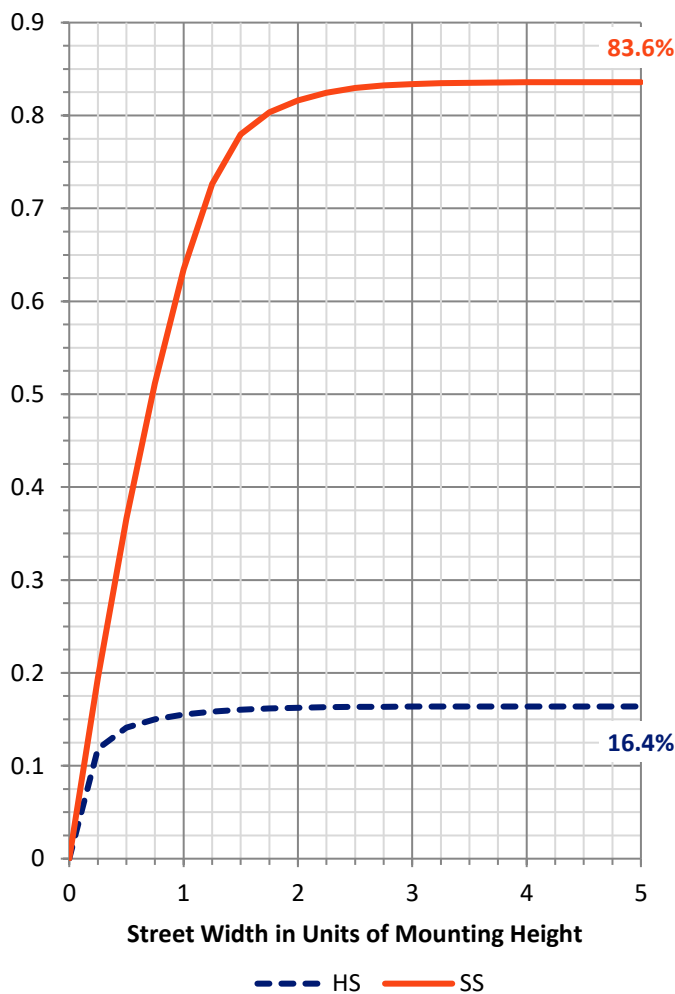
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1381.5	0.0	1381.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6981.6	0.0	6981.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8363.1	0.0	8363.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.9	3.8
10°-20°	689.1	8.2
20°-30°	897.7	10.7
30°-40°	1302.1	15.6
40°-50°	1878.8	22.5
50°-60°	2272.3	27.2
60°-70°	926.1	11.1
70°-80°	83.2	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°	8363.1	100.0
0°-180°	8363.1	100.0

**Coefficient of Utilization**



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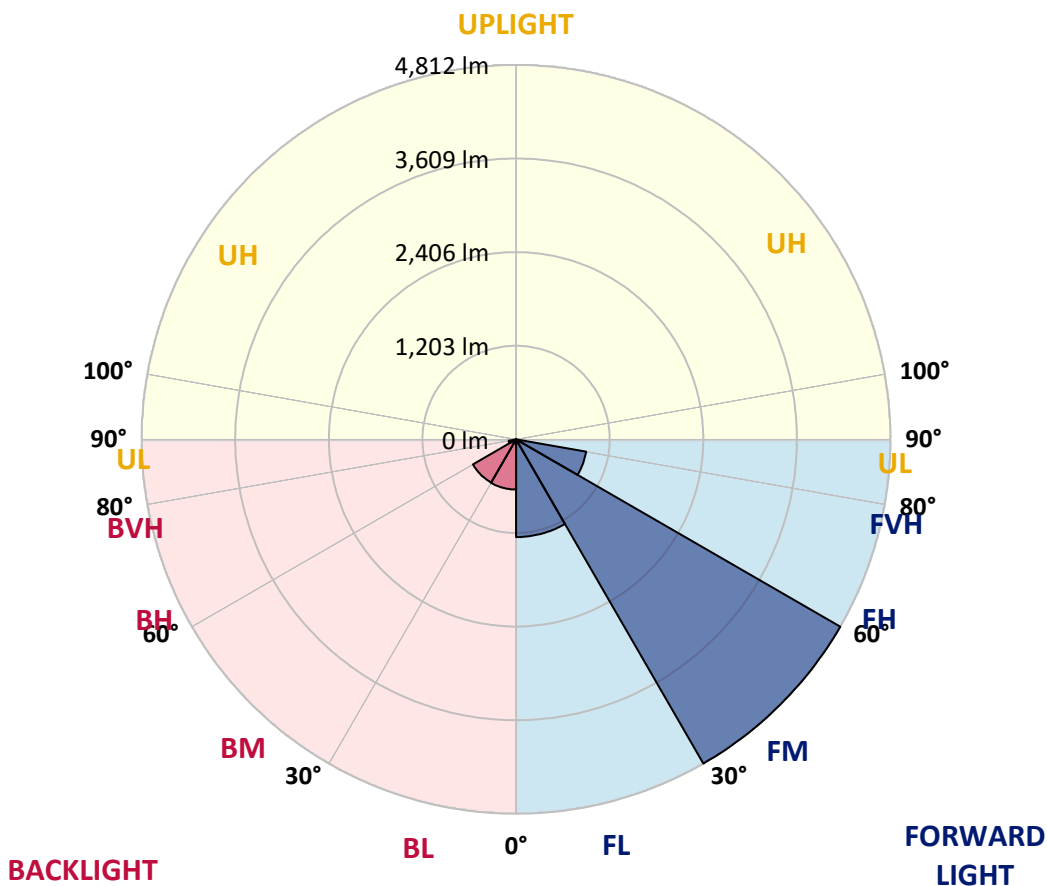
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.9	15.0			
FM (30°-60°)	4812.0	57.5			
FH (60°-80°)	913.8	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	644.8	7.7	B2/1000		
BM (30°-60°)	641.2	7.7	B1/1000		
BH (60°-80°)	95.5	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°	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5
2.5°	3617.3	3625.5	3639.8	3658.3	3670.6	3676.7	3676.7	3694.2	3682.9	3673.7	3663.4
5°	3462.5	3470.7	3490.2	3519.9	3549.6	3571.2	3595.8	3614.2	3621.4	3621.4	3604.0
7.5°	3244.2	3255.5	3267.8	3308.8	3373.3	3421.5	3463.5	3490.2	3529.1	3541.4	3516.8
10°	3009.4	3020.7	3048.4	3104.8	3178.6	3250.3	3322.1	3355.9	3422.5	3457.4	3429.7
12.5°	2810.6	2815.7	2852.6	2920.3	3014.6	3113.0	3200.1	3235.0	3329.3	3381.5	3348.7
15°	2646.6	2649.7	2686.6	2761.4	2870.0	2991.0	3100.7	3136.5	3252.4	3331.3	3282.1
17.5°	2522.6	2523.6	2555.4	2636.3	2750.1	2884.4	3014.6	3058.6	3208.3	3303.6	3229.8
20°	2460.0	2457.0	2479.5	2550.2	2657.9	2792.1	2945.9	3000.2	3183.7	3299.5	3189.8
22.5°	2461.1	2453.9	2463.1	2513.3	2604.6	2730.6	2902.8	2964.3	3185.7	3317.0	3156.0
25°	2519.5	2509.2	2511.3	2537.9	2602.5	2717.3	2909.0	2974.6	3226.8	3375.4	3143.7
27.5°	2617.9	2606.6	2606.6	2619.9	2654.8	2759.3	2985.9	3060.7	3336.4	3489.2	3169.3
30°	2745.0	2733.7	2729.6	2742.9	2771.6	2868.0	3157.0	3235.0	3524.0	3675.7	3251.4
32.5°	2890.5	2877.2	2884.4	2902.8	2930.5	3063.8	3377.4	3481.0	3758.7	3926.8	3399.0
35°	3044.3	3033.0	3065.8	3105.8	3148.8	3335.4	3681.9	3772.1	4046.8	4239.5	3624.5
37.5°	3190.9	3185.7	3254.4	3338.5	3427.7	3661.4	3991.4	4061.1	4293.8	4579.8	3900.2
40°	3337.5	3336.4	3454.3	3601.9	3744.4	3986.3	4226.1	4283.5	4444.5	4844.2	4164.6
42.5°	3501.5	3501.5	3664.4	3861.2	4050.9	4261.0	4398.3	4424.0	4512.1	4997.0	4363.5
45°	3658.3	3667.5	3856.1	4084.7	4309.2	4475.2	4517.2	4519.3	4539.8	5087.2	4528.5
47.5°	3782.3	3790.5	4016.0	4279.4	4521.3	4638.2	4644.3	4635.1	4612.6	5173.3	4655.6
50°	3882.8	3895.1	4130.8	4409.6	4666.9	4795.0	4842.2	4833.0	4775.5	5265.5	4744.8
52.5°	3932.0	3949.4	4170.8	4474.2	4828.9	5063.6	5194.8	5216.3	5019.5	5316.8	4829.9
55°	3538.4	3564.0	3768.0	4183.1	4919.1	5478.7	5684.7	5680.6	5284.0	5469.5	5036.9
57.5°	2672.2	2670.2	2839.3	3293.4	4201.5	5502.3	5986.1	5977.9	5531.0	5646.8	5249.1
60°	1819.4	1807.1	1852.2	2071.6	2937.7	4482.4	5448.0	5558.7	5355.7	5216.3	4456.8
62.5°	1497.5	1486.3	1471.9	1411.4	1687.2	2792.1	3763.9	3932.0	3905.3	3625.5	2795.2
65°	1225.9	1235.1	1275.1	1249.5	1173.6	1431.9	1953.7	2053.1	1876.8	1579.5	976.8
67.5°	904.1	908.2	960.4	1095.7	1054.7	953.3	919.4	935.8	548.4	252.2	163.0
70°	534.0	537.1	585.3	766.7	855.9	731.9	621.2	611.9	217.3	67.7	73.8
72.5°	302.4	296.2	305.5	364.9	466.4	388.5	319.8	291.1	65.6	37.9	37.9
75°	143.5	139.4	119.9	112.8	102.5	65.6	41.0	34.9	16.4	15.4	15.4
77.5°	1.0	3.1	2.1	3.1	3.1	2.1	1.0	1.0	3.1	3.1	4.1
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°	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5
2.5°	3645.0	3614.2	3607.0	3605.0	3576.3	3545.5	3513.8	3501.5	3483.0	3471.7	3481.0
5°	3576.3	3532.2	3493.3	3457.4	3393.8	3324.1	3263.7	3224.7	3187.8	3163.2	3169.3
7.5°	3478.9	3421.5	3332.3	3241.1	3124.2	3019.7	2902.8	2831.1	2764.5	2727.6	2745.0
10°	3375.4	3299.5	3157.0	3002.3	2818.8	2654.8	2487.7	2351.4	2272.5	2197.6	2205.8
12.5°	3273.9	3173.4	2960.2	2725.5	2493.9	2252.0	1999.8	1811.2	1682.1	1588.8	1574.4
15°	3179.6	3050.4	2768.6	2459.0	2143.3	1821.5	1499.6	1230.0	1080.4	988.1	982.0
17.5°	3095.5	2935.6	2569.7	2180.2	1784.6	1372.5	1002.5	800.5	714.4	674.5	670.4
20°	3014.6	2819.8	2366.8	1897.3	1393.0	963.5	691.9	598.6	570.9	554.5	556.6
22.5°	2936.7	2693.7	2153.6	1583.6	1044.5	676.5	536.1	500.2	497.1	499.2	500.2
25°	2871.1	2577.9	1934.2	1281.3	745.2	515.6	447.9	437.7	446.9	460.2	462.3
27.5°	2837.2	2483.6	1720.0	976.8	539.2	419.2	388.5	392.6	409.0	423.3	425.4
30°	2846.5	2412.9	1498.6	708.3	415.1	353.6	343.4	351.6	368.0	381.3	383.4
32.5°	2912.1	2377.0	1272.0	515.6	341.3	308.5	304.4	310.6	324.9	335.2	336.2
35°	3042.2	2385.2	1056.8	394.6	293.2	274.7	273.7	277.8	285.0	292.1	293.2
37.5°	3233.9	2451.8	844.6	328.0	265.5	252.2	248.1	248.1	253.2	256.3	258.3
40°	3440.0	2552.3	676.5	290.1	246.0	231.7	223.5	220.4	224.5	228.6	229.6
42.5°	3610.1	2652.7	549.4	263.4	230.6	211.2	200.9	198.9	204.0	211.2	213.2
45°	3740.3	2730.6	458.2	241.9	213.2	191.7	180.4	180.4	189.6	201.9	204.0
47.5°	3859.2	2793.2	390.5	222.4	196.8	174.3	163.0	165.0	180.4	196.8	199.9
50°	3940.2	2843.4	340.3	205.0	183.5	159.9	149.7	153.8	172.2	191.7	194.8
52.5°	4027.3	2904.9	307.5	189.6	171.2	148.6	139.4	142.5	163.0	184.5	188.6
55°	4268.2	3110.9	306.5	169.1	149.7	133.3	129.2	130.2	150.7	175.3	180.4
57.5°	4465.0	3292.4	327.0	142.5	125.1	116.9	114.8	115.8	134.3	162.0	168.1
60°	3694.2	2558.4	270.6	117.9	104.6	102.5	99.4	101.5	118.9	143.5	148.6
62.5°	2186.4	1462.7	129.2	90.2	89.2	87.1	84.1	88.2	104.6	126.1	129.2
65°	747.2	433.6	82.0	73.8	75.9	72.8	69.7	73.8	88.2	100.5	101.5
67.5°	143.5	114.8	65.6	61.5	62.5	56.4	55.4	59.5	67.7	69.7	68.7
70°	74.8	66.6	50.2	50.2	48.2	40.0	40.0	44.1	44.1	41.0	40.0
72.5°	39.0	36.9	32.8	36.9	30.8	24.6	24.6	26.7	24.6	20.5	20.5
75°	15.4	15.4	14.4	18.5	13.3	11.3	10.3	12.3	9.2	7.2	7.2
77.5°	4.1	4.1	4.1	5.1	3.1	3.1	2.1	2.1	1.0	0.0	0.0
80°	0.0	1.0	0.0	1.0	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

(END OF REPORT)