

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: P637045

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
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-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

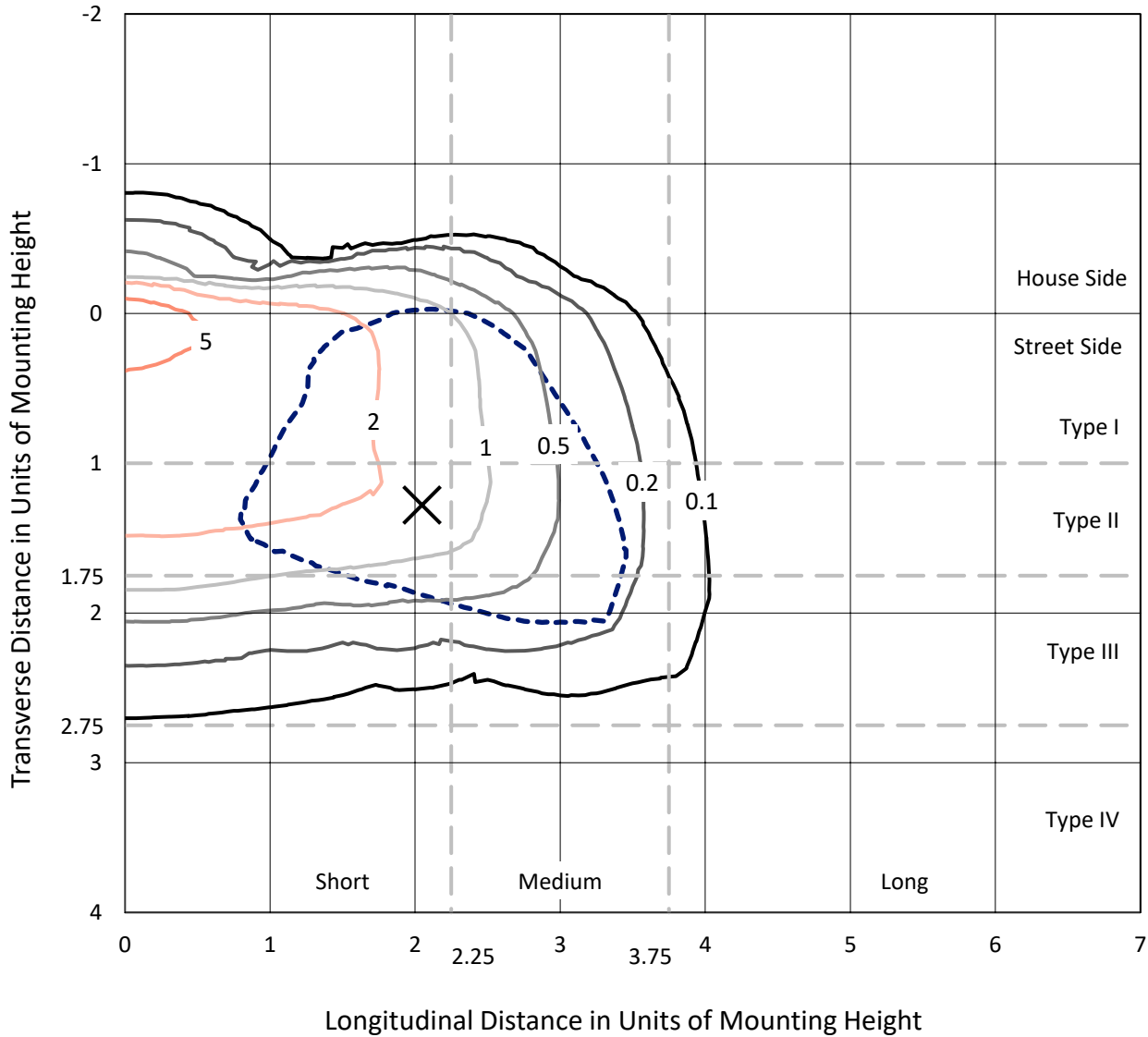
Lumens per Lamp: N/A  
Luminaire Lumens: 11580.7 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P637045  
 CATALOG NUMBER: GWS-SA4C-722-U-SL3-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

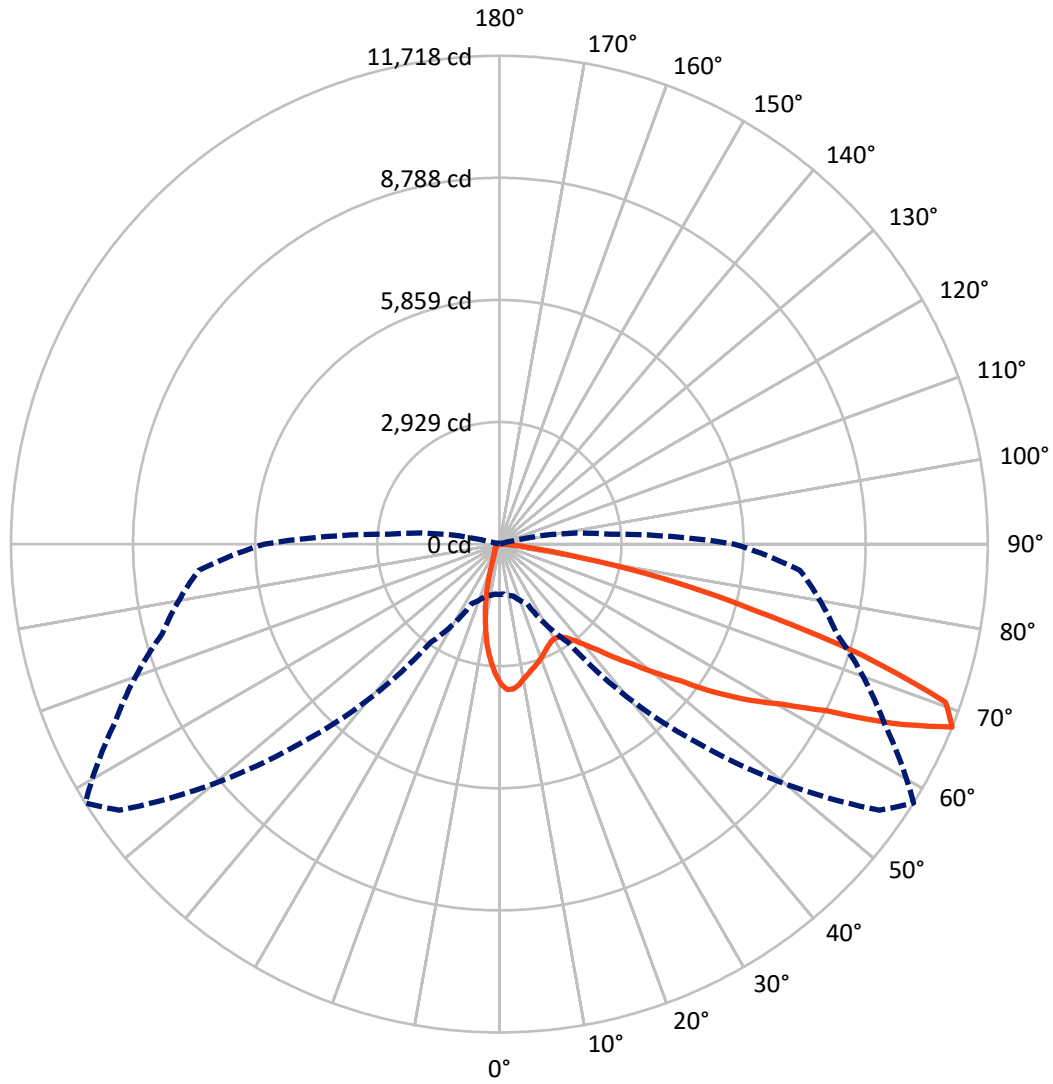
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P637045  
CATALOG NUMBER: GWS-SA4C-722-U-SL3-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637045  
 CATALOG NUMBER: GWS-SA4C-722-U-SL3-W-HSS

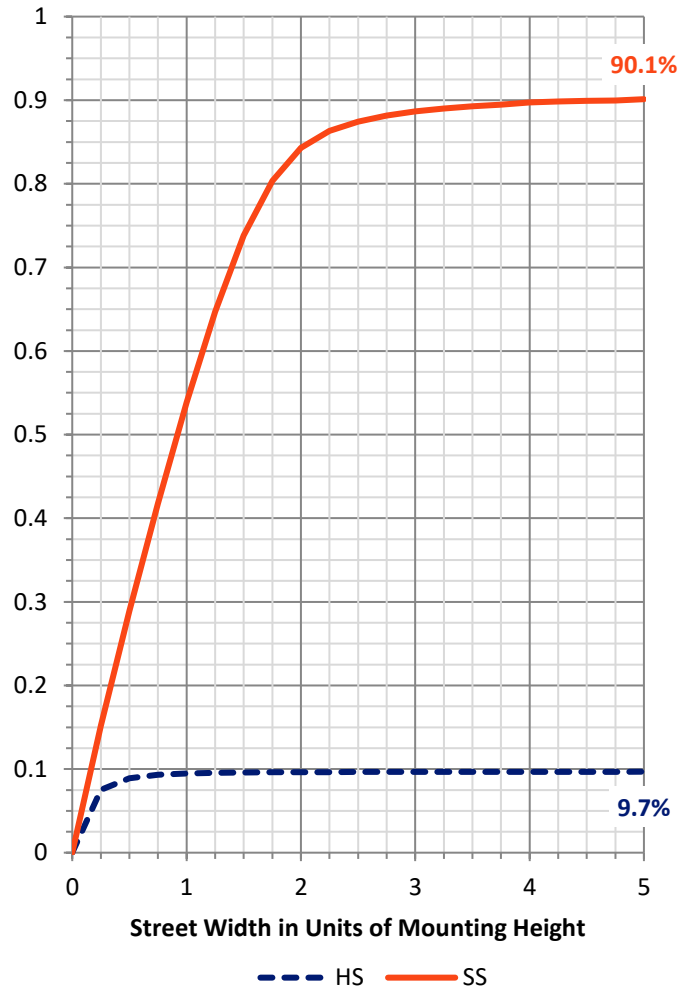
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1131.3	0.0	1131.3
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	10449.3	0.0	10449.3
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	11580.7	0.0	11580.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	2.3
10°-20°	565.0	4.9
20°-30°	762.0	6.6
30°-40°	1070.8	9.2
40°-50°	1653.7	14.3
50°-60°	2644.5	22.8
60°-70°	3131.2	27.0
70°-80°	1385.2	12.0
80°-90°	96.8	0.8
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°	11580.7	100.0
0°-180°	11580.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637045

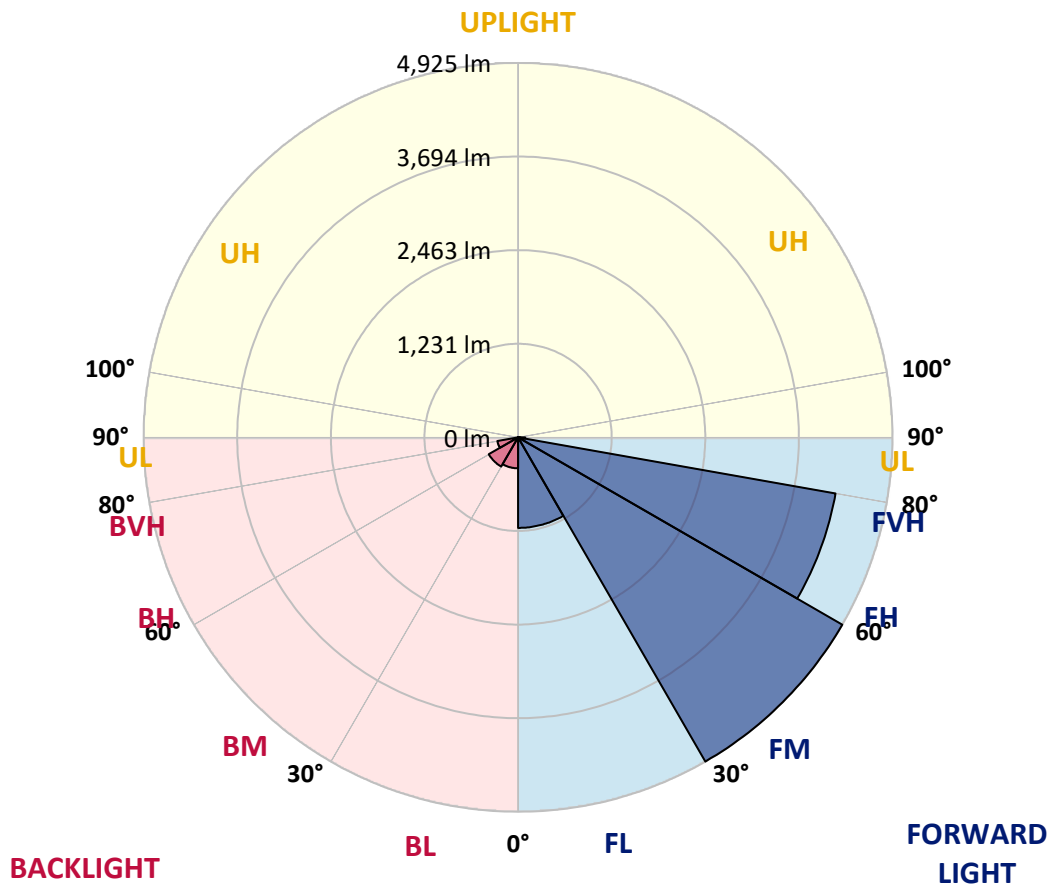
CATALOG NUMBER: GWS-SA4C-722-U-SL3-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.4	10.3			
FM (30°-60°)	4925.0	42.5			
FH (60°-80°)	4240.2	36.6			G2/5000
FVH (80°-90°)	92.7	0.8			G1/100
BL (0°-30°)	407.1	3.5	B1/500		
BM (30°-60°)	443.9	3.8	B1/1000		
BH (60°-80°)	276.2	2.4	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





REPORT NUMBER: P637045

CATALOG NUMBER: GWS-SA4C-722-U-SL3-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4
2.5°	3513.6	3519.8	3528.0	3538.2	3536.2	3527.0	3515.7	3490.1	3473.7	3422.4	3359.9
5°	3400.9	3399.9	3420.4	3439.8	3474.7	3493.1	3518.8	3495.2	3487.0	3425.5	3324.0
7.5°	3180.5	3191.8	3215.4	3246.1	3296.3	3350.7	3412.2	3405.0	3429.6	3388.6	3262.5
10°	2964.2	2958.1	2995.0	3041.1	3118.0	3187.7	3276.9	3275.8	3340.4	3336.3	3192.8
12.5°	2774.6	2773.6	2802.3	2854.6	2944.8	3042.1	3163.1	3166.2	3246.1	3278.9	3133.4
15°	2614.7	2616.8	2644.5	2698.8	2792.1	2910.9	3051.4	3077.0	3167.2	3233.8	3074.9
17.5°	2501.0	2502.0	2518.4	2565.5	2656.8	2783.9	2953.0	2987.8	3103.6	3200.0	3027.8
20°	2448.7	2444.6	2447.7	2471.2	2542.0	2657.8	2852.5	2897.6	3045.2	3176.4	2984.7
22.5°	2455.9	2449.7	2435.4	2432.3	2464.1	2552.2	2745.9	2801.3	2981.7	3162.1	2945.8
25°	2519.4	2506.1	2485.6	2454.8	2442.5	2486.6	2652.7	2710.1	2922.2	3163.1	2916.1
27.5°	2616.8	2602.4	2576.8	2535.8	2487.6	2469.2	2589.1	2643.4	2880.2	3186.7	2901.7
30°	2740.8	2729.5	2704.9	2655.7	2591.2	2515.3	2575.8	2620.9	2859.7	3234.8	2907.9
32.5°	2887.4	2879.2	2858.7	2813.6	2739.8	2624.0	2620.9	2655.7	2876.1	3304.5	2931.4
35°	3028.8	3031.9	3032.9	3008.3	2929.4	2789.0	2744.9	2757.2	2943.7	3409.1	2984.7
37.5°	3181.5	3174.4	3211.3	3228.7	3152.8	3003.2	2936.6	2937.6	3072.9	3563.9	3085.2
40°	3297.4	3299.4	3379.4	3451.1	3419.3	3274.8	3179.5	3178.5	3271.7	3776.0	3247.1
42.5°	3406.0	3419.3	3537.2	3660.2	3704.3	3576.2	3507.5	3481.9	3550.5	4063.0	3490.1
45°	3521.8	3541.3	3706.3	3881.6	3997.4	3921.6	3867.3	3877.5	3885.7	4397.2	3817.0
47.5°	3657.1	3669.4	3873.4	4120.4	4336.7	4317.2	4320.3	4308.0	4303.9	4818.4	4249.6
50°	3821.1	3849.8	4084.6	4379.7	4674.9	4804.1	4847.1	4852.3	4785.6	5277.6	4697.5
52.5°	4169.6	4204.5	4405.4	4663.7	5043.9	5315.6	5490.8	5456.0	5353.5	5722.5	5188.5
55°	4580.6	4607.3	4801.0	5068.5	5494.9	5876.2	6292.4	6278.0	6026.9	6190.9	5592.3
57.5°	4619.6	4649.3	4949.6	5359.6	6074.0	6569.1	7006.8	7052.9	6684.9	6523.0	5953.1
60°	4181.9	4242.4	4652.4	5203.8	6295.4	7500.8	7789.9	7799.1	7167.7	6860.2	6393.8
62.5°	3351.7	3380.4	3793.5	4513.0	5954.1	8044.1	8986.0	8791.3	7787.8	7381.9	7091.9
65°	1756.8	1873.7	2233.4	3029.8	4828.7	7854.4	10425.1	10371.8	8903.0	8129.1	7635.1
67.5°	1205.4	1204.4	1289.4	1579.5	2879.2	6762.8	11131.3	11717.6	10192.4	8385.4	7241.5
70°	917.4	920.4	996.3	1184.9	1491.3	4501.7	10356.4	11358.9	10432.3	7613.6	5856.7
72.5°	608.8	615.0	741.1	957.3	1191.0	2206.8	8048.2	9088.5	8777.9	6115.0	4122.5
75°	363.9	369.0	459.2	696.0	1058.8	1235.1	5113.6	6283.1	6042.3	4214.7	2209.9
77.5°	149.6	153.7	235.7	433.6	774.9	959.4	2827.9	4111.2	3619.2	1675.8	603.7
80°	62.5	64.6	113.8	303.4	558.6	601.7	1309.9	1932.1	1483.1	360.8	184.5
82.5°	22.5	23.6	42.0	167.1	347.5	453.0	661.1	763.6	418.2	117.9	99.4
85°	1.0	1.0	10.2	56.4	132.2	128.1	378.2	365.9	138.4	49.2	59.4
87.5°	0.0	0.0	1.0	1.0	2.0	5.1	35.9	63.5	29.7	12.3	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637045

CATALOG NUMBER: GWS-SA4C-722-U-SL3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4	3340.4
2.5°	3318.9	3264.6	3205.1	3149.8	3061.6	3009.3	2944.8	2916.1	2875.1	2864.8	2871.0
5°	3251.2	3158.0	3015.5	2886.4	2719.3	2585.0	2449.7	2392.3	2318.5	2269.3	2248.8
7.5°	3155.9	3033.9	2811.5	2576.8	2347.2	2102.2	1915.7	1792.7	1681.0	1619.5	1607.2
10°	3059.6	2900.7	2581.9	2245.7	1890.1	1596.9	1344.8	1158.2	1006.5	937.9	884.6
12.5°	2960.1	2762.3	2348.2	1909.5	1496.5	1096.7	785.1	603.7	495.1	452.0	459.2
15°	2868.9	2629.1	2116.6	1573.3	1053.7	662.1	433.6	365.9	340.3	332.1	331.1
17.5°	2781.8	2503.0	1886.0	1246.4	694.9	405.9	332.1	315.7	308.5	304.4	304.4
20°	2702.9	2382.1	1660.5	938.9	448.9	321.8	300.3	292.1	286.0	282.9	282.9
22.5°	2629.1	2265.2	1440.1	664.2	331.1	289.0	275.7	267.5	260.3	256.2	256.2
25°	2562.5	2159.6	1230.0	457.1	284.9	264.4	250.1	240.9	228.6	221.4	221.4
27.5°	2514.3	2065.3	1028.1	333.1	257.3	237.8	221.4	209.1	195.8	187.6	185.5
30°	2485.6	1985.4	824.1	273.7	231.6	212.2	193.7	178.3	163.0	154.8	153.7
32.5°	2469.2	1911.6	637.5	238.8	210.1	187.6	167.1	150.7	135.3	126.1	125.0
35°	2475.3	1854.2	477.6	215.2	189.6	166.0	143.5	127.1	113.8	105.6	103.5
37.5°	2528.6	1828.6	358.7	196.8	172.2	147.6	124.0	108.6	96.3	90.2	89.2
40°	2632.2	1833.7	281.9	182.4	157.8	129.1	106.6	92.2	83.0	77.9	76.9
42.5°	2793.1	1876.7	232.7	170.1	142.5	112.7	92.2	81.0	71.7	66.6	65.6
45°	3032.9	1965.9	202.9	155.8	126.1	97.4	79.9	69.7	61.5	55.3	54.3
47.5°	3380.4	2120.7	183.5	142.5	111.7	84.0	68.7	58.4	51.2	46.1	45.1
50°	3750.4	2306.2	167.1	129.1	99.4	72.8	58.4	48.2	42.0	36.9	35.9
52.5°	4145.0	2506.1	154.8	116.8	88.1	62.5	49.2	40.0	33.8	28.7	27.7
55°	4524.3	2707.0	140.4	108.6	74.8	53.3	41.0	32.8	26.6	22.5	22.5
57.5°	4893.3	2891.5	125.0	95.3	61.5	45.1	33.8	26.6	21.5	18.4	17.4
60°	5334.0	3146.7	107.6	81.0	51.2	37.9	27.7	21.5	17.4	14.3	14.3
62.5°	5989.0	3412.2	92.2	67.6	43.0	31.8	22.5	17.4	14.3	12.3	11.3
65°	6203.2	3268.7	77.9	55.3	34.8	25.6	18.4	15.4	12.3	11.3	10.2
67.5°	5631.3	2679.3	64.6	45.1	28.7	21.5	16.4	13.3	11.3	10.2	9.2
70°	4394.1	1901.3	50.2	33.8	23.6	17.4	14.3	12.3	10.2	9.2	9.2
72.5°	2988.8	1124.4	40.0	25.6	19.5	15.4	12.3	11.3	10.2	9.2	8.2
75°	1471.9	399.7	30.7	19.5	15.4	13.3	11.3	10.2	9.2	8.2	8.2
77.5°	396.7	110.7	23.6	15.4	12.3	10.2	10.2	10.2	9.2	7.2	7.2
80°	134.3	46.1	17.4	11.3	10.2	8.2	7.2	9.2	8.2	7.2	6.1
82.5°	73.8	22.5	12.3	9.2	7.2	6.1	6.1	6.1	6.1	5.1	5.1
85°	47.1	12.3	8.2	7.2	7.2	5.1	4.1	4.1	3.1	3.1	3.1
87.5°	21.5	7.2	7.2	6.1	6.1	5.1	3.1	2.0	1.0	1.0	1.0
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)