

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: P639516

Luminaire Tested: GWS-SA5C-722-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-722-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

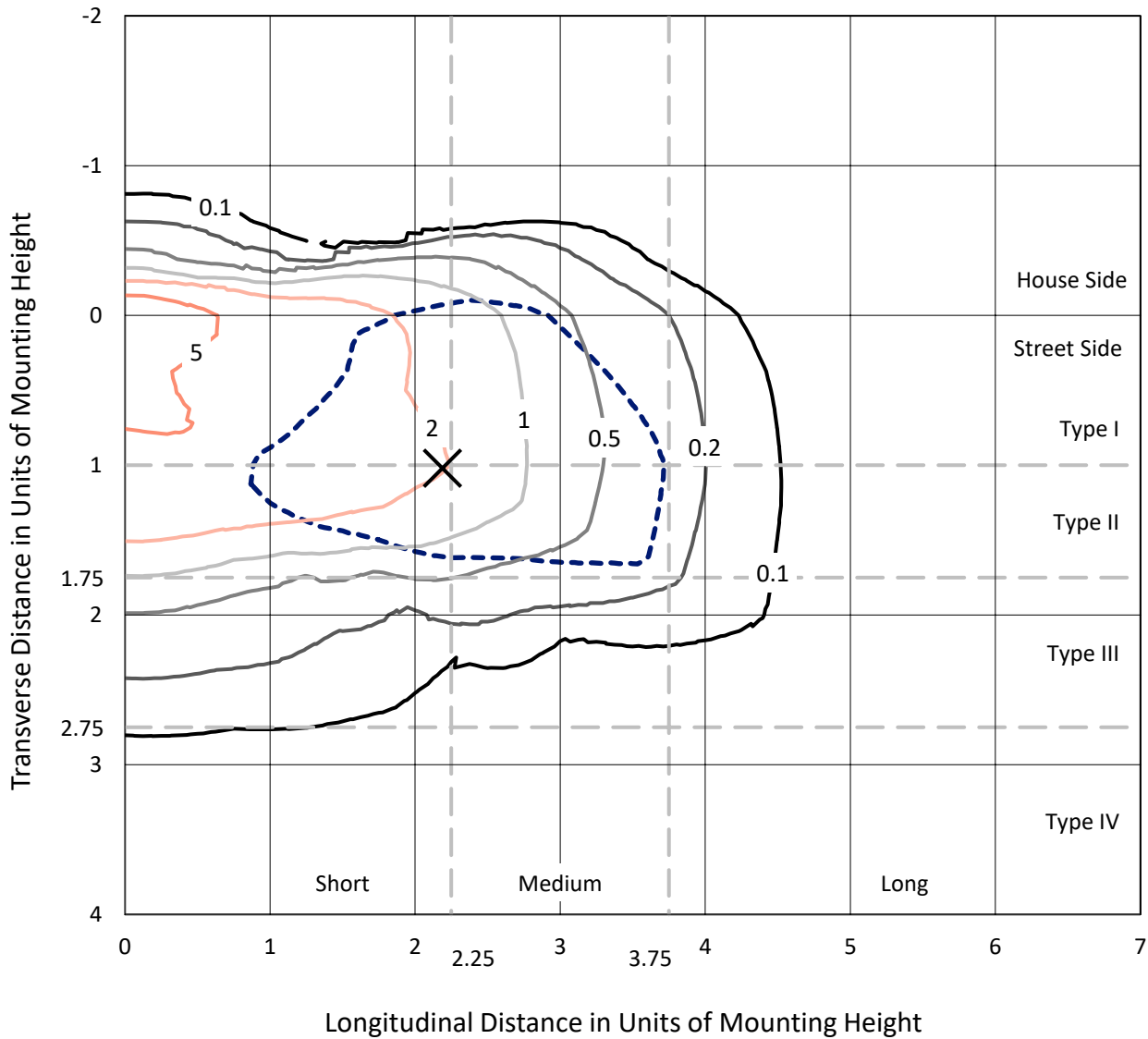
Lumens per Lamp: N/A  
Luminaire Lumens: 13904.4 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

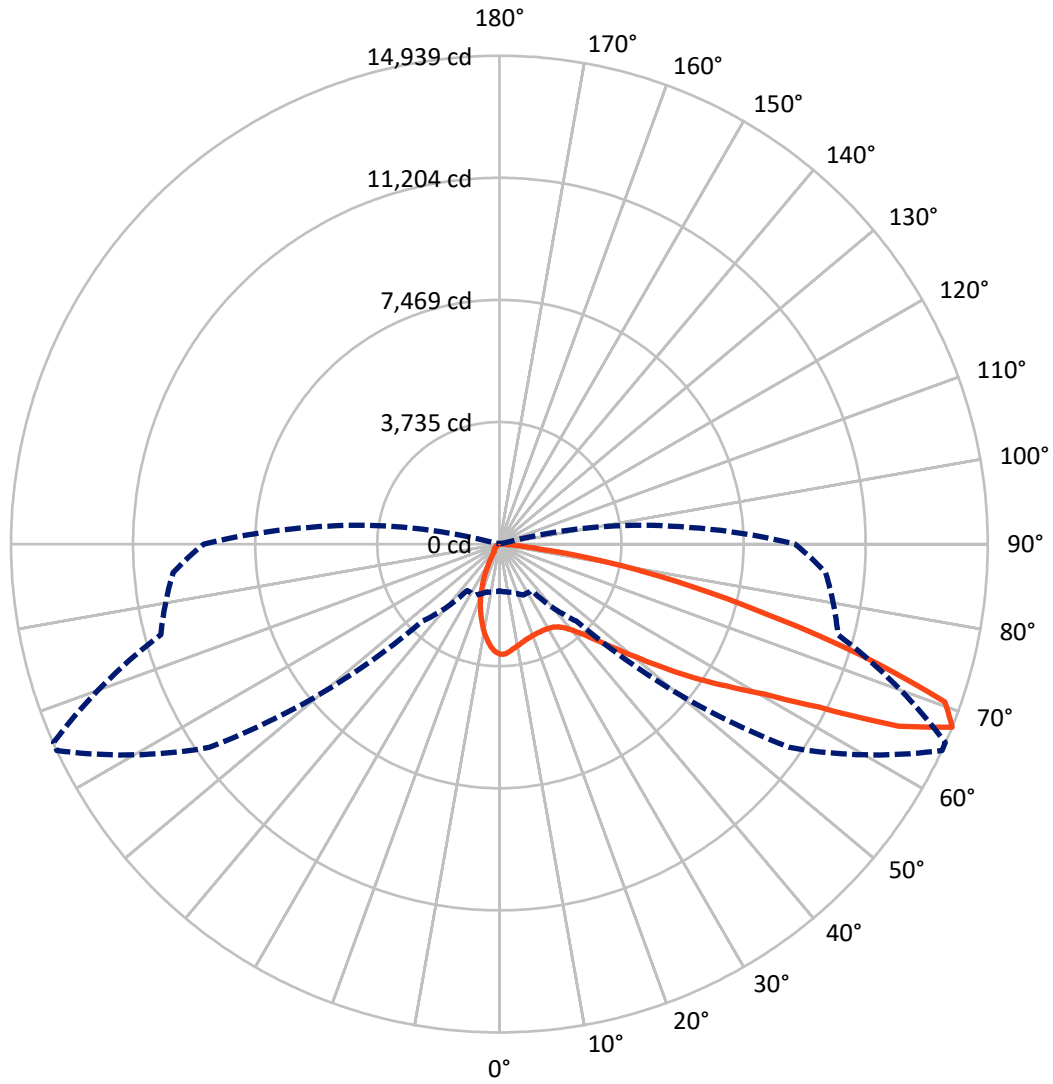
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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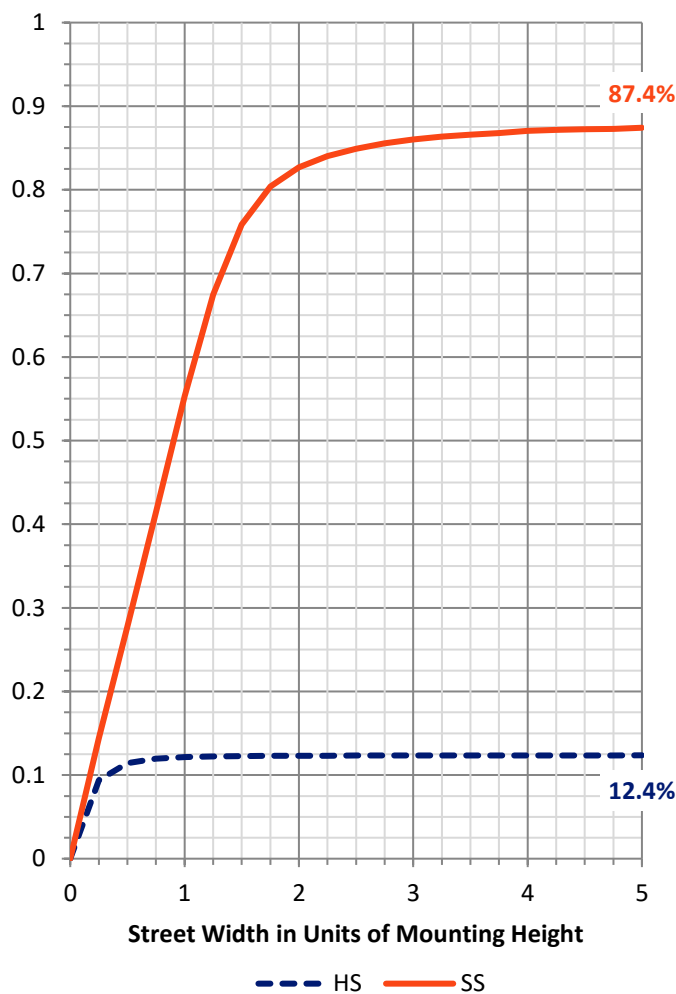
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1736.2	0.0	1736.2
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	12168.2	0.0	12168.2
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	13904.4	0.0	13904.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.1	2.0
10°-20°	629.6	4.5
20°-30°	899.7	6.5
30°-40°	1308.9	9.4
40°-50°	2050.0	14.7
50°-60°	3198.0	23.0
60°-70°	3512.9	25.3
70°-80°	1869.5	13.4
80°-90°	155.7	1.1
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°	13904.4	100.0
0°-180°	13904.4	100.0

**Coefficient of Utilization**

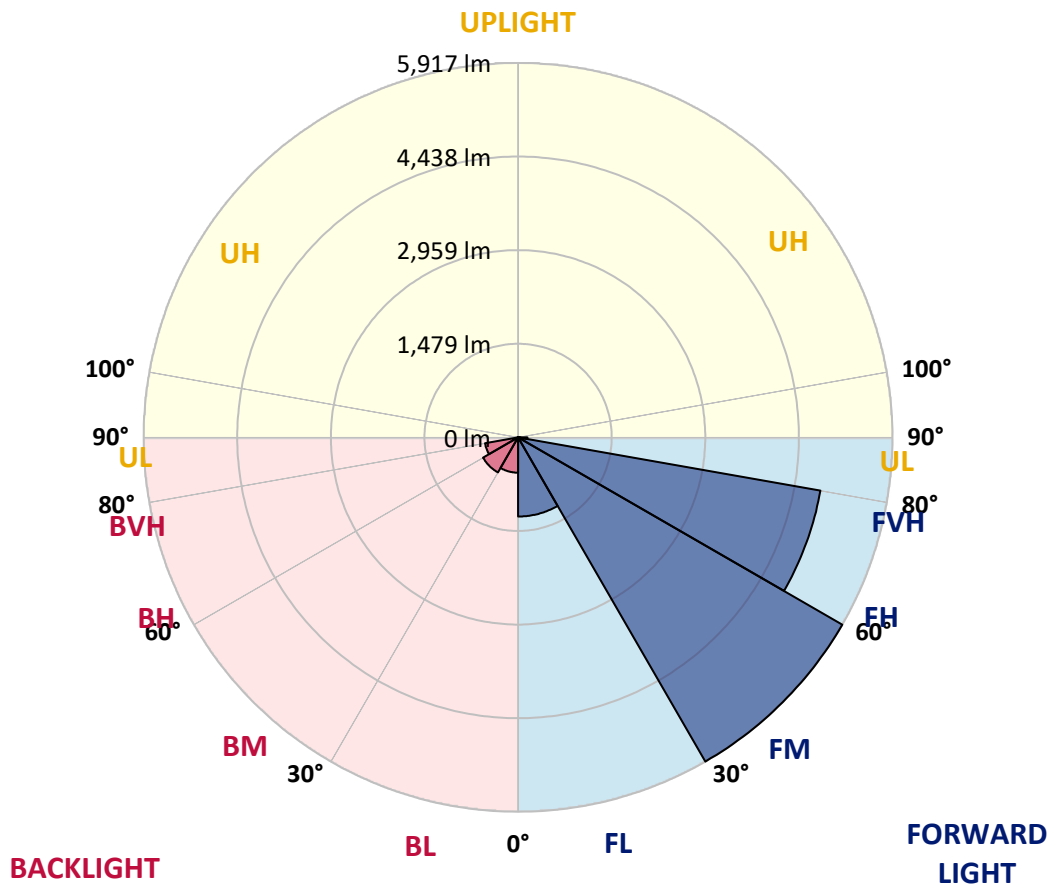


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.3	9.0			
FM (30°-60°)	5917.4	42.6			
FH (60°-80°)	4852.1	34.9			G2/5000
FVH (80°-90°)	147.3	1.1			G2/225
BL (0°-30°)	558.1	4.0	B2/1000		
BM (30°-60°)	639.5	4.6	B1/1000		
BH (60°-80°)	530.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3
2.5°	3255.3	3265.4	3251.5	3285.5	3291.8	3329.5	3350.9	3366.0	3364.7	3383.6	3383.6
5°	3064.2	3074.3	3066.7	3103.2	3132.1	3191.2	3240.2	3296.8	3299.3	3357.2	3378.5
7.5°	2902.0	2903.3	2903.3	2948.5	2986.2	3059.2	3132.1	3218.9	3228.9	3318.2	3374.8
10°	2768.7	2772.5	2773.7	2825.3	2866.8	2954.8	3047.9	3152.2	3163.5	3284.2	3372.3
12.5°	2676.9	2678.2	2683.2	2737.3	2782.6	2874.3	2968.6	3088.1	3103.2	3245.3	3360.9
15°	2632.9	2630.4	2632.9	2678.2	2723.5	2811.5	2908.3	3036.5	3052.9	3212.6	3362.2
17.5°	2630.4	2626.6	2624.1	2658.1	2687.0	2764.9	2863.0	3002.6	3020.2	3197.5	3376.0
20°	2666.9	2664.4	2651.8	2666.9	2673.2	2737.3	2834.1	2976.2	2993.8	3195.0	3406.2
22.5°	2762.4	2756.1	2737.3	2723.5	2689.5	2727.2	2814.0	2957.3	2977.4	3201.3	3445.2
25°	2904.5	2902.0	2878.1	2844.2	2757.4	2742.3	2815.2	2957.3	2976.2	3208.8	3486.7
27.5°	3118.3	3103.2	3073.0	3013.9	2889.4	2801.4	2840.4	2964.9	2983.7	3218.9	3520.6
30°	3335.8	3334.5	3324.5	3264.1	3079.3	2914.6	2893.2	2985.0	3002.6	3227.7	3552.1
32.5°	3560.9	3564.6	3589.8	3543.3	3340.8	3083.1	2988.8	3026.5	3039.1	3245.3	3579.7
35°	3774.6	3782.2	3848.8	3865.1	3658.9	3338.3	3144.7	3109.5	3110.7	3284.2	3616.2
37.5°	3979.6	4004.7	4111.6	4190.8	4055.0	3647.6	3369.7	3250.3	3240.2	3362.2	3671.5
40°	4212.2	4260.0	4394.5	4529.0	4486.3	4056.3	3676.5	3466.6	3445.2	3505.5	3770.8
42.5°	4469.9	4521.5	4700.0	4888.6	4908.8	4550.4	4060.0	3782.2	3745.7	3747.0	3956.9
45°	4746.6	4815.7	5023.2	5294.8	5416.7	5101.1	4532.8	4208.4	4171.9	4117.9	4256.2
47.5°	5109.9	5170.3	5370.2	5683.3	5917.2	5692.1	5152.7	4756.6	4690.0	4610.8	4721.4
50°	5423.0	5475.8	5648.1	6040.4	6527.0	6454.1	5855.6	5441.9	5377.8	5243.2	5335.0
52.5°	5492.2	5533.7	5692.1	6133.4	6993.5	7415.9	6716.8	6270.5	6225.2	5976.3	6011.5
55°	5181.6	5244.5	5386.6	5876.9	7115.4	8356.5	7834.6	7204.7	7110.4	6713.1	6775.9
57.5°	4397.0	4508.9	4642.2	5279.7	6784.7	8856.9	9396.3	8194.3	8108.8	7422.2	7423.5
60°	3222.6	3313.2	3402.4	3985.8	6000.1	8822.9	10813.3	9305.8	9149.9	8001.9	7980.5
62.5°	2343.7	2390.3	2389.0	2596.5	4120.4	8242.0	11557.7	10980.6	10617.2	8621.8	8499.8
65°	1843.3	1842.0	1896.1	1964.0	2301.0	6362.3	11649.5	13426.2	13033.9	9452.9	9198.9
67.5°	1434.7	1462.3	1516.4	1716.3	1728.9	3329.5	10842.3	14938.8	14931.2	10721.6	10017.4
70°	1106.5	1144.2	1220.9	1512.6	1596.9	1863.4	8112.5	14459.7	14581.7	11288.6	9437.8
72.5°	710.4	707.9	821.1	1222.2	1534.0	1552.8	4486.3	11486.0	11624.3	10224.9	7631.0
75°	397.3	399.8	464.0	748.1	1429.6	1461.1	2221.8	8190.5	8299.9	7971.7	5863.1
77.5°	155.9	160.9	217.5	393.6	943.0	1305.1	1320.2	5585.2	5601.6	4940.2	3596.1
80°	62.9	66.6	110.6	243.9	574.6	878.9	943.0	3290.5	3223.9	1912.5	1046.1
82.5°	18.9	20.1	44.0	138.3	300.5	624.9	636.2	1262.4	1192.0	411.2	266.6
85°	1.3	1.3	10.1	42.8	106.9	157.2	423.7	411.2	364.6	103.1	118.2
87.5°	0.0	0.0	1.3	1.3	2.5	5.0	45.3	75.4	76.7	18.9	52.8
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°	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3	3372.3
2.5°	3383.6	3338.3	3334.5	3299.3	3264.1	3220.1	3168.6	3130.8	3104.4	3057.9	3049.1
5°	3378.5	3318.2	3261.6	3161.0	3049.1	2928.4	2822.8	2724.7	2663.1	2621.6	2604.0
7.5°	3368.5	3291.8	3161.0	2971.2	2783.8	2572.6	2407.9	2257.0	2153.9	2093.5	2067.1
10°	3360.9	3257.8	3045.3	2757.4	2467.0	2175.2	1925.0	1701.2	1576.7	1478.7	1462.3
12.5°	3345.9	3208.8	2897.0	2507.2	2132.5	1745.2	1425.9	1151.7	961.9	876.4	846.2
15°	3330.8	3157.2	2748.6	2243.1	1767.9	1290.1	902.8	638.7	508.0	467.7	465.2
17.5°	3328.2	3110.7	2587.7	1992.9	1385.6	844.9	514.3	413.7	386.0	376.0	376.0
20°	3335.8	3071.7	2429.2	1705.0	1009.7	514.3	383.5	358.3	342.0	333.2	333.2
22.5°	3343.3	3031.5	2277.1	1414.5	670.2	376.0	338.2	316.9	298.0	287.9	282.9
25°	3348.4	2987.5	2108.6	1122.8	437.6	326.9	296.7	269.1	246.4	233.9	233.9
27.5°	3347.1	2934.7	1938.9	837.4	339.5	290.5	254.0	225.1	202.4	188.6	189.9
30°	3337.0	2876.9	1762.8	584.7	296.7	254.0	217.5	187.3	164.7	153.4	152.1
32.5°	3329.5	2815.2	1559.1	411.2	266.6	222.6	184.8	155.9	137.1	128.3	127.0
35°	3320.7	2754.9	1365.5	313.1	240.2	192.4	155.9	132.0	116.9	109.4	109.4
37.5°	3323.2	2692.0	1155.5	269.1	213.8	167.2	133.3	113.2	100.6	93.0	91.8
40°	3362.2	2654.3	949.3	243.9	189.9	144.6	115.7	98.1	85.5	78.0	76.7
42.5°	3459.0	2655.6	751.9	225.1	168.5	123.2	100.6	84.2	72.9	64.1	62.9
45°	3652.6	2708.4	577.1	205.0	145.9	106.9	86.8	71.7	60.4	52.8	51.6
47.5°	3969.5	2865.5	437.6	187.3	127.0	93.0	74.2	60.4	50.3	44.0	42.8
50°	4473.7	3149.7	344.5	166.0	106.9	80.5	62.9	50.3	41.5	35.2	33.9
52.5°	5079.8	3575.9	295.5	147.1	91.8	70.4	54.1	41.5	33.9	28.9	27.7
55°	5776.3	4085.2	272.8	128.3	78.0	60.4	44.0	33.9	27.7	23.9	21.4
57.5°	6415.1	4544.1	271.6	109.4	66.6	51.6	36.5	28.9	23.9	18.9	17.6
60°	7037.5	4927.6	255.2	90.5	57.8	42.8	31.4	23.9	20.1	16.3	15.1
62.5°	7602.0	5239.4	213.8	72.9	49.0	35.2	26.4	21.4	17.6	13.8	13.8
65°	8311.2	5636.8	163.5	59.1	40.2	28.9	22.6	18.9	16.3	12.6	12.6
67.5°	9044.2	5846.8	116.9	49.0	32.7	25.1	20.1	17.6	13.8	11.3	11.3
70°	8191.7	4940.2	84.2	40.2	27.7	21.4	17.6	16.3	13.8	11.3	10.1
72.5°	6397.5	3562.1	62.9	31.4	23.9	20.1	16.3	15.1	12.6	10.1	10.1
75°	4744.0	2077.2	47.8	25.1	18.9	16.3	16.3	15.1	12.6	10.1	8.8
77.5°	2578.9	724.2	36.5	20.1	15.1	12.6	13.8	13.8	11.3	8.8	7.5
80°	682.7	198.7	25.1	15.1	12.6	10.1	10.1	12.6	10.1	7.5	7.5
82.5°	198.7	57.8	17.6	12.6	10.1	8.8	8.8	8.8	7.5	6.3	5.0
85°	96.8	21.4	12.6	10.1	8.8	7.5	6.3	6.3	5.0	3.8	3.8
87.5°	42.8	8.8	10.1	8.8	8.8	6.3	5.0	3.8	3.8	2.5	1.3
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)