

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: P642505

Luminaire Tested: GWS-SA6D-722-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-722-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

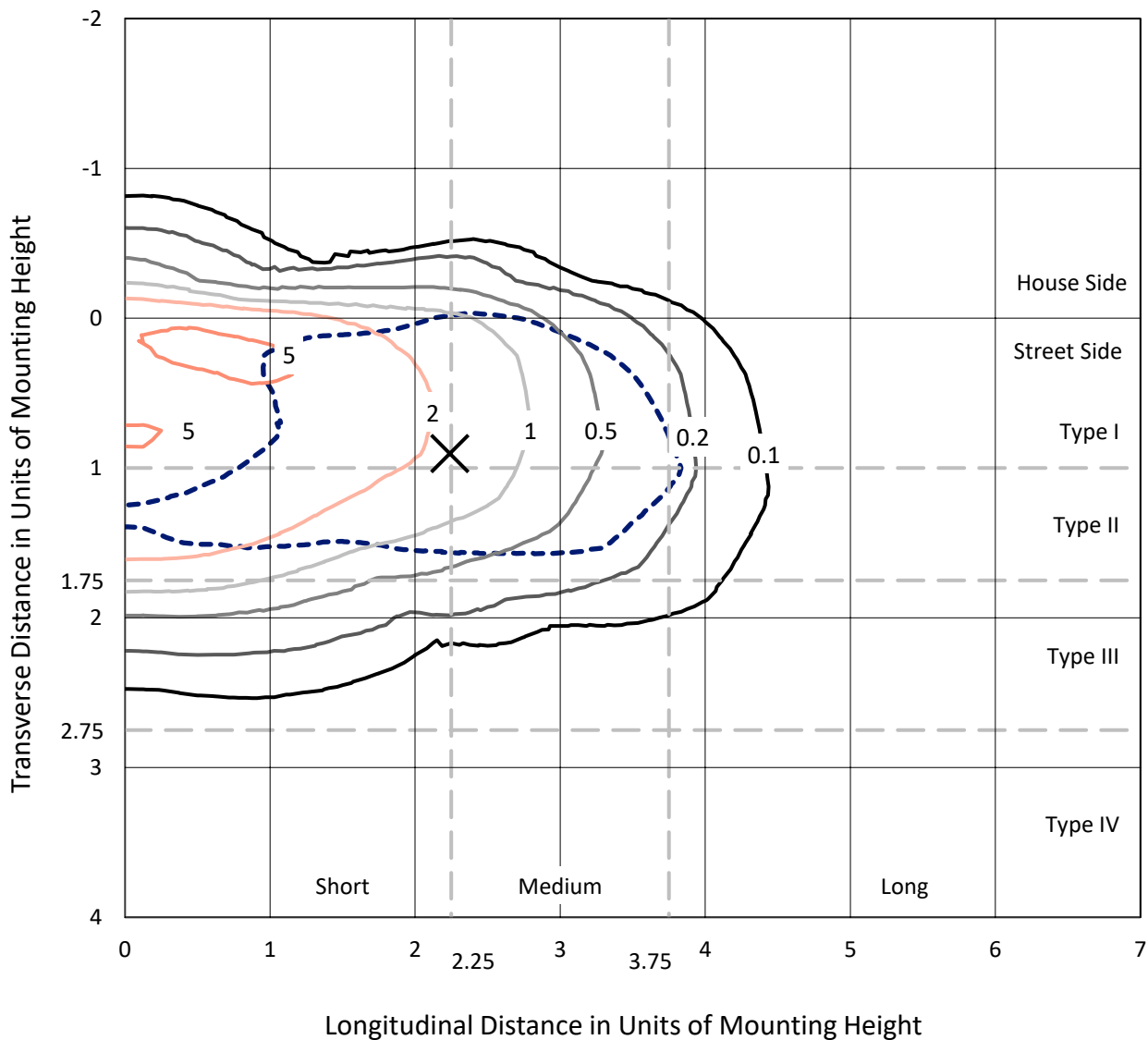
Lumens per Lamp: N/A  
Luminaire Lumens: 19764.7 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

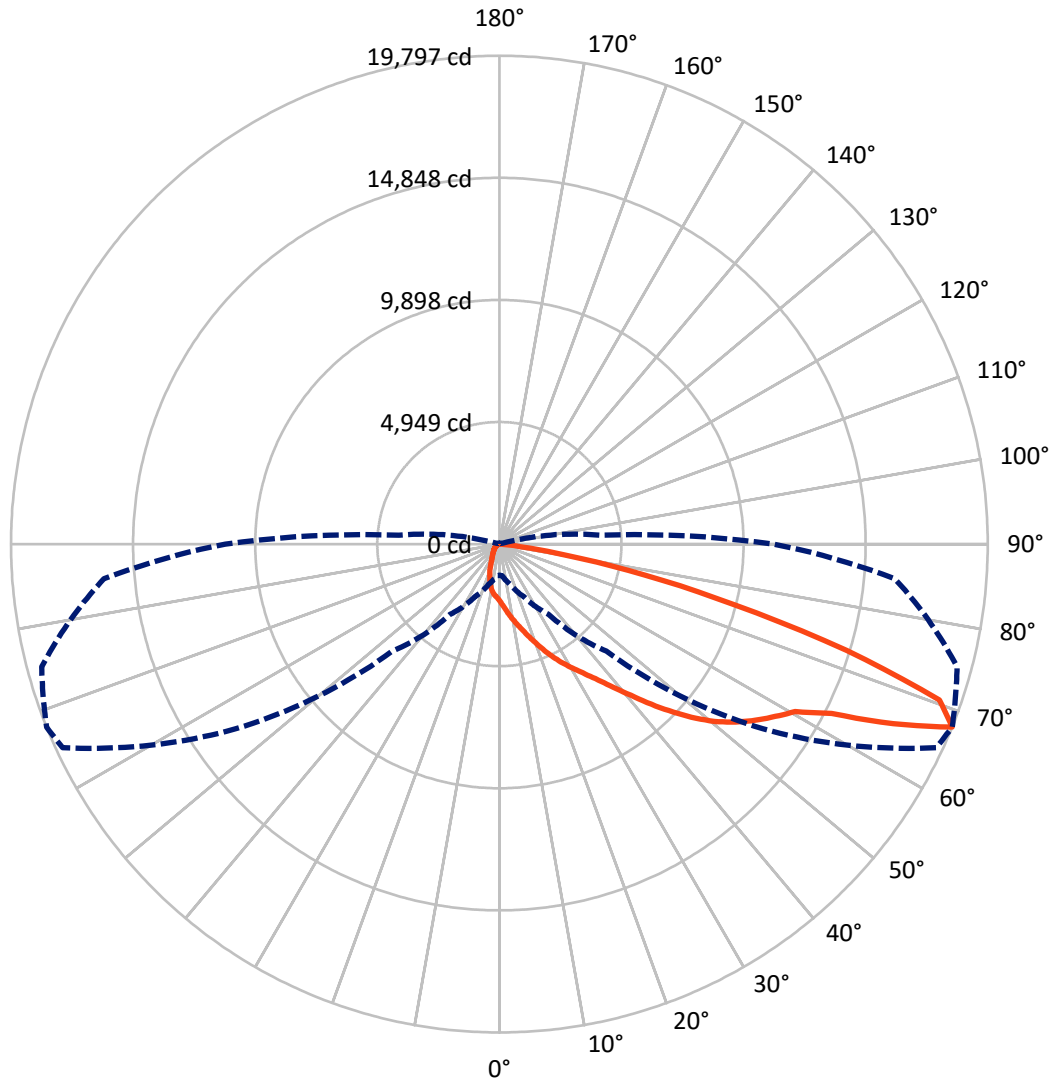
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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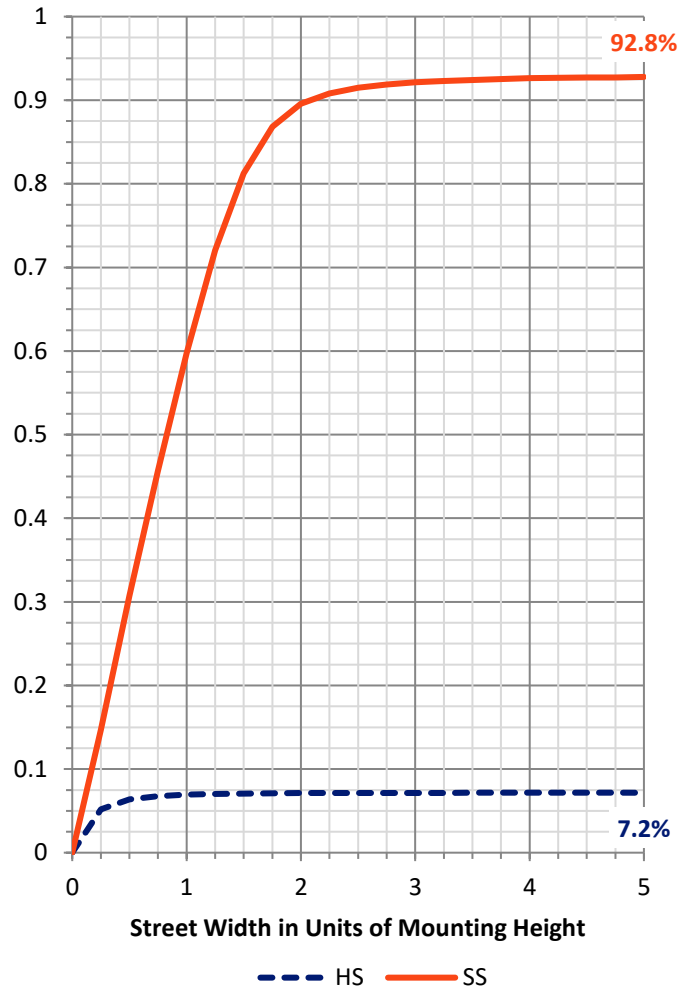
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1427.2	0.0	1427.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	18337.5	0.0	18337.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	19764.7	0.0	19764.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.3	1.1
10°-20°	644.2	3.3
20°-30°	1107.1	5.6
30°-40°	1924.8	9.7
40°-50°	3358.6	17.0
50°-60°	5065.6	25.6
60°-70°	5079.4	25.7
70°-80°	2241.0	11.3
80°-90°	119.7	0.6
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°	19764.7	100.0
0°-180°	19764.7	100.0

**Coefficient of Utilization**

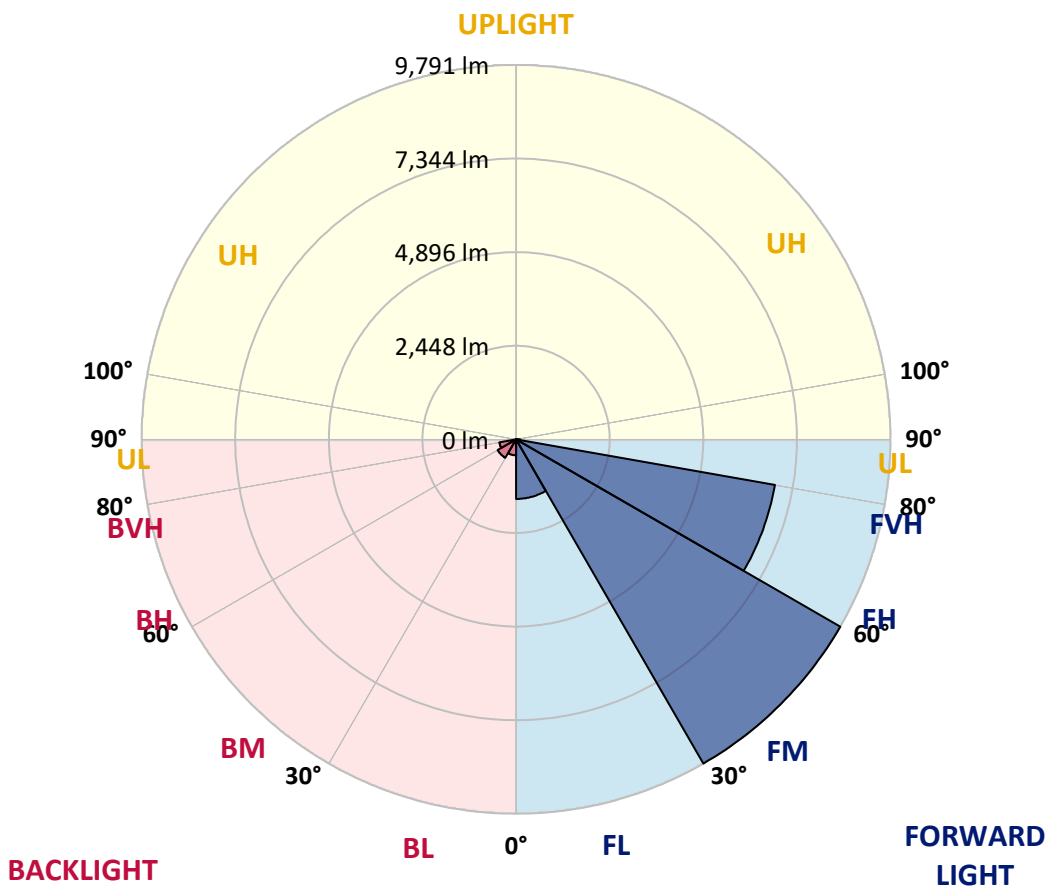


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1558.1	7.9			
FM (30°-60°)	9791.4	49.5			
FH (60°-80°)	6875.1	34.8			G3/7500
FVH (80°-90°)	112.9	0.6			G2/225
BL (0°-30°)	417.6	2.1	B1/500		
BM (30°-60°)	557.5	2.8	B1/1000		
BH (60°-80°)	445.4	2.3	B1/500		G1/500
BVH (80°-90°)	6.8	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1
2.5°	2678.4	2695.4	2678.4	2682.2	2633.0	2610.3	2561.1	2493.0	2476.0	2432.5	2366.3
5°	3005.7	3020.8	3003.8	3000.0	2943.2	2901.6	2820.3	2703.0	2669.0	2583.8	2453.3
7.5°	3183.5	3192.9	3198.6	3208.0	3187.2	3153.2	3079.4	2933.8	2897.8	2759.8	2576.3
10°	3202.4	3209.9	3238.3	3295.1	3336.7	3357.5	3315.9	3181.6	3124.8	2990.5	2727.6
12.5°	3149.4	3160.8	3206.2	3300.7	3416.1	3522.0	3548.5	3431.2	3380.2	3208.0	2905.4
15°	3079.4	3088.9	3151.3	3279.9	3453.9	3648.8	3758.5	3707.4	3650.7	3471.0	3102.1
17.5°	2971.6	2984.8	3071.9	3245.9	3471.0	3749.0	3985.5	4002.5	3962.8	3767.9	3319.6
20°	2911.1	2920.5	2998.1	3177.8	3459.6	3822.8	4197.3	4358.1	4314.6	4110.3	3569.3
22.5°	2962.1	2969.7	3020.8	3160.8	3421.8	3864.4	4394.0	4713.7	4689.1	4477.3	3832.3
25°	3230.7	3255.3	3225.1	3249.7	3438.8	3887.1	4552.9	5069.3	5075.0	4861.2	4104.6
27.5°	3775.5	3743.4	3671.5	3548.5	3571.2	3947.6	4689.1	5404.1	5453.3	5235.8	4346.8
30°	4329.7	4310.8	4267.3	4076.3	3917.4	4081.9	4804.5	5746.5	5824.0	5604.6	4562.4
32.5°	4952.0	4971.0	4893.4	4664.5	4394.0	4354.3	4923.7	6071.8	6217.5	6022.7	4815.9
35°	5695.4	5701.1	5547.9	5294.4	4988.0	4804.5	5137.4	6431.2	6699.8	6556.1	5154.4
37.5°	6419.9	6453.9	6370.7	5971.6	5699.2	5364.4	5491.1	6892.8	7271.1	7214.3	5580.0
40°	7061.1	7114.1	7087.6	6701.7	6344.2	6062.4	6039.7	7433.7	7961.5	8025.8	6141.8
42.5°	7571.8	7605.9	7626.7	7352.4	7036.5	6877.6	6716.8	8061.7	8776.7	9039.7	6830.3
45°	8110.9	8122.3	8165.8	7980.4	7704.2	7717.5	7517.0	8824.0	9635.5	10163.2	7621.0
47.5°	8797.5	8835.4	8814.6	8619.7	8370.0	8519.5	8343.6	9609.0	10482.9	11362.5	8430.6
50°	9633.6	9673.3	9654.4	9427.4	9149.4	9211.8	9102.1	10371.3	11300.0	12493.6	9104.0
52.5°	10064.9	10097.0	10331.6	10433.7	10288.1	9890.8	9749.0	11209.2	11990.5	13424.2	9722.5
55°	9856.8	9879.5	10390.2	10821.5	11354.9	10957.7	10399.7	11856.2	12599.5	14150.6	10182.1
57.5°	8994.3	9117.2	9811.4	10541.5	11663.2	12011.3	11455.1	12559.8	13185.9	14655.6	10634.2
60°	7225.7	7220.0	8214.9	9525.8	11061.7	12300.7	12945.7	13511.2	13774.2	15043.4	11239.5
62.5°	3993.0	4029.0	5353.0	7080.0	9389.6	11551.6	14063.6	15155.0	15115.3	15720.6	12187.2
65°	1988.0	2059.9	2778.7	4055.5	6247.7	9546.6	14256.5	17663.2	17549.7	17315.1	14144.9
67.5°	1261.7	1290.0	1687.3	2356.9	3472.9	6136.1	13055.4	19533.9	19796.8	19206.7	16087.5
70°	817.1	864.4	1172.8	1611.6	2095.8	3162.6	9563.6	18321.4	18924.8	18998.6	14876.9
72.5°	444.5	478.6	749.0	1150.1	1513.2	1581.3	5372.0	13749.6	14719.9	16115.9	11638.6
75°	253.5	278.1	410.5	781.2	1110.3	962.8	2381.4	9204.2	9822.7	11517.6	8339.8
77.5°	153.2	174.0	230.8	380.2	696.1	643.1	900.4	5602.7	5996.2	6872.0	4377.0
80°	70.0	83.2	145.6	210.0	380.2	304.5	344.3	2612.2	2697.3	2820.3	1448.9
82.5°	32.2	37.8	66.2	124.8	215.6	175.9	132.4	603.4	849.3	803.9	368.8
85°	3.8	3.8	24.6	51.1	60.5	45.4	54.9	136.2	172.1	242.1	105.9
87.5°	0.0	0.0	1.9	1.9	3.8	5.7	11.3	17.0	24.6	39.7	26.5
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°	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1	2300.1
2.5°	2336.0	2283.1	2235.8	2165.8	2118.5	2065.6	2029.6	1986.1	1969.1	1955.8	1936.9
5°	2389.0	2303.9	2188.5	2059.9	1954.0	1853.7	1761.0	1700.5	1647.5	1640.0	1613.5
7.5°	2476.0	2349.3	2154.5	1944.5	1764.8	1598.3	1467.8	1361.9	1308.9	1291.9	1261.7
10°	2591.4	2417.4	2103.4	1781.8	1522.7	1324.1	1176.5	1057.4	974.1	943.9	921.2
12.5°	2720.0	2479.8	2022.1	1581.3	1286.2	1059.3	872.0	745.3	692.3	673.4	656.4
15°	2867.6	2538.4	1893.4	1380.8	1055.5	779.3	646.9	592.1	569.4	563.7	558.0
17.5°	3009.4	2576.3	1740.2	1172.8	811.5	605.3	542.9	522.1	516.4	510.7	506.9
20°	3170.2	2602.8	1560.5	976.0	629.9	512.6	482.3	467.2	455.9	444.5	442.6
22.5°	3334.8	2602.8	1365.7	783.1	527.7	459.6	425.6	397.2	376.4	365.1	361.3
25°	3491.8	2566.8	1172.8	626.1	465.3	408.6	365.1	332.9	304.5	291.3	287.5
27.5°	3603.4	2474.1	1004.4	529.6	421.8	363.2	310.2	274.3	251.6	238.3	236.4
30°	3673.4	2336.0	849.3	472.9	384.0	315.9	262.9	232.7	215.6	206.2	202.4
32.5°	3726.3	2165.8	711.2	433.2	348.0	274.3	228.9	204.3	189.2	181.6	179.7
35°	3832.3	2005.0	609.1	397.2	310.2	240.2	200.5	181.6	170.2	160.8	158.9
37.5°	3979.8	1870.7	527.7	365.1	274.3	213.7	181.6	164.6	155.1	145.6	143.8
40°	4197.3	1785.6	467.2	332.9	242.1	192.9	166.5	151.3	138.1	128.6	126.7
42.5°	4532.1	1745.9	427.5	300.8	213.7	174.0	153.2	134.3	121.1	111.6	109.7
45°	4931.2	1766.7	393.4	268.6	194.8	160.8	136.2	117.3	104.0	94.6	92.7
47.5°	5358.7	1840.5	365.1	238.3	175.9	147.5	121.1	100.3	88.9	79.4	77.6
50°	5805.1	1961.5	340.5	210.0	160.8	132.4	104.0	87.0	75.7	68.1	66.2
52.5°	6192.9	2126.1	315.9	189.2	147.5	117.3	90.8	75.7	64.3	56.7	54.9
55°	6563.6	2281.2	297.0	170.2	132.4	102.1	79.4	64.3	54.9	47.3	45.4
57.5°	6966.5	2445.8	274.3	153.2	119.2	90.8	70.0	54.9	47.3	39.7	37.8
60°	7552.9	2689.8	240.2	140.0	104.0	79.4	60.5	49.2	41.6	32.2	30.3
62.5°	8398.4	3134.3	202.4	121.1	88.9	68.1	51.1	41.6	34.0	26.5	22.7
65°	9979.7	3890.9	166.5	100.3	71.9	56.7	43.5	34.0	26.5	18.9	17.0
67.5°	11118.5	4087.6	134.3	81.3	58.6	43.5	35.9	26.5	18.9	13.2	11.3
70°	9720.6	2935.7	104.0	66.2	49.2	34.0	28.4	20.8	13.2	9.5	7.6
72.5°	7324.0	1918.0	77.6	51.1	37.8	28.4	20.8	17.0	11.3	7.6	5.7
75°	5162.0	1108.4	56.7	37.8	26.5	20.8	17.0	13.2	9.5	5.7	5.7
77.5°	2646.3	457.8	39.7	26.5	18.9	13.2	11.3	7.6	7.6	5.7	3.8
80°	803.9	151.3	22.7	17.0	13.2	9.5	5.7	5.7	5.7	3.8	1.9
82.5°	183.5	49.2	13.2	13.2	9.5	7.6	5.7	1.9	1.9	0.0	0.0
85°	47.3	15.1	11.3	9.5	9.5	7.6	3.8	1.9	0.0	0.0	0.0
87.5°	17.0	9.5	9.5	9.5	7.6	5.7	3.8	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)