

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: P642503

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
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-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

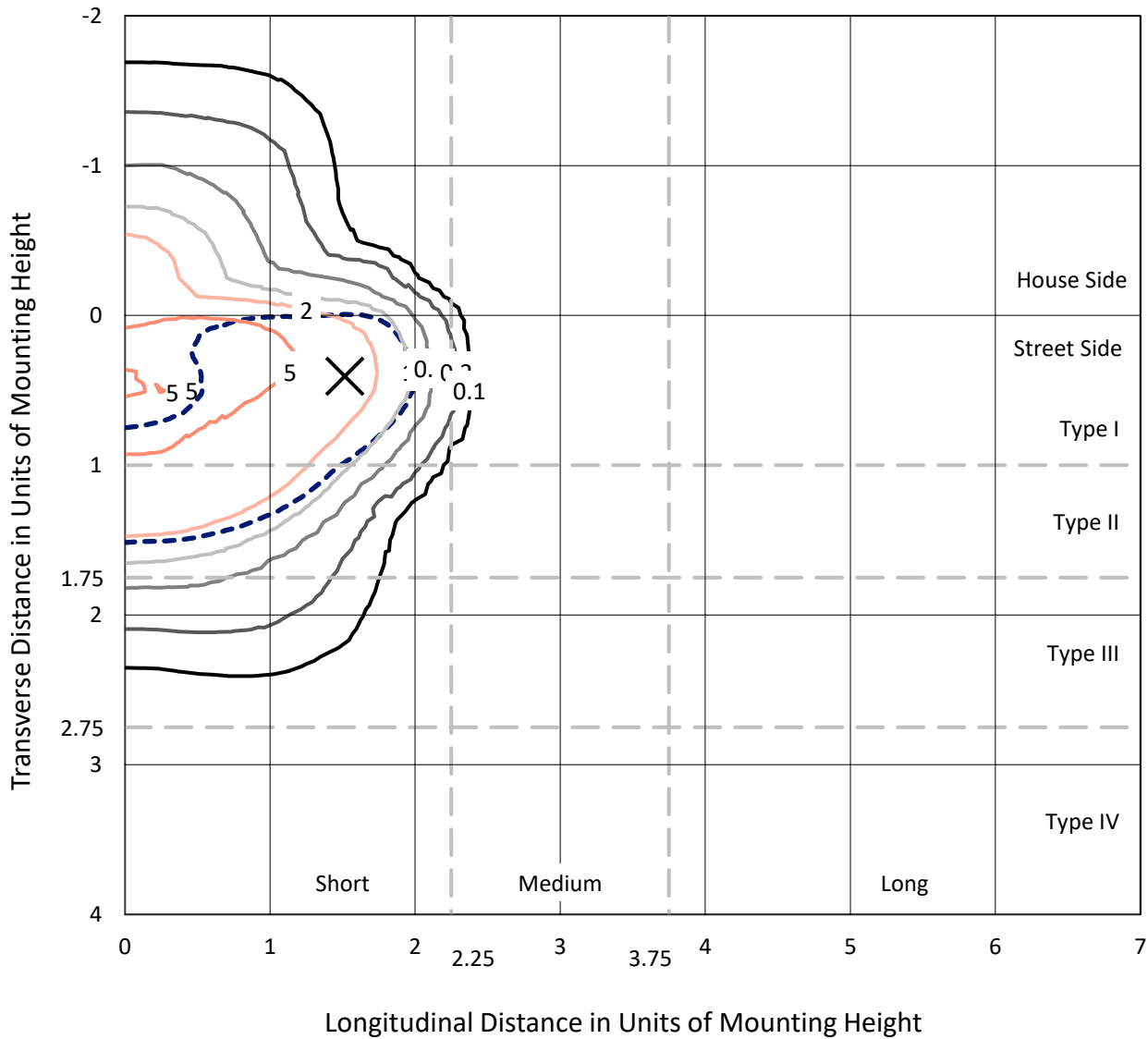
Lumens per Lamp: N/A  
Luminaire Lumens: 15673.3 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

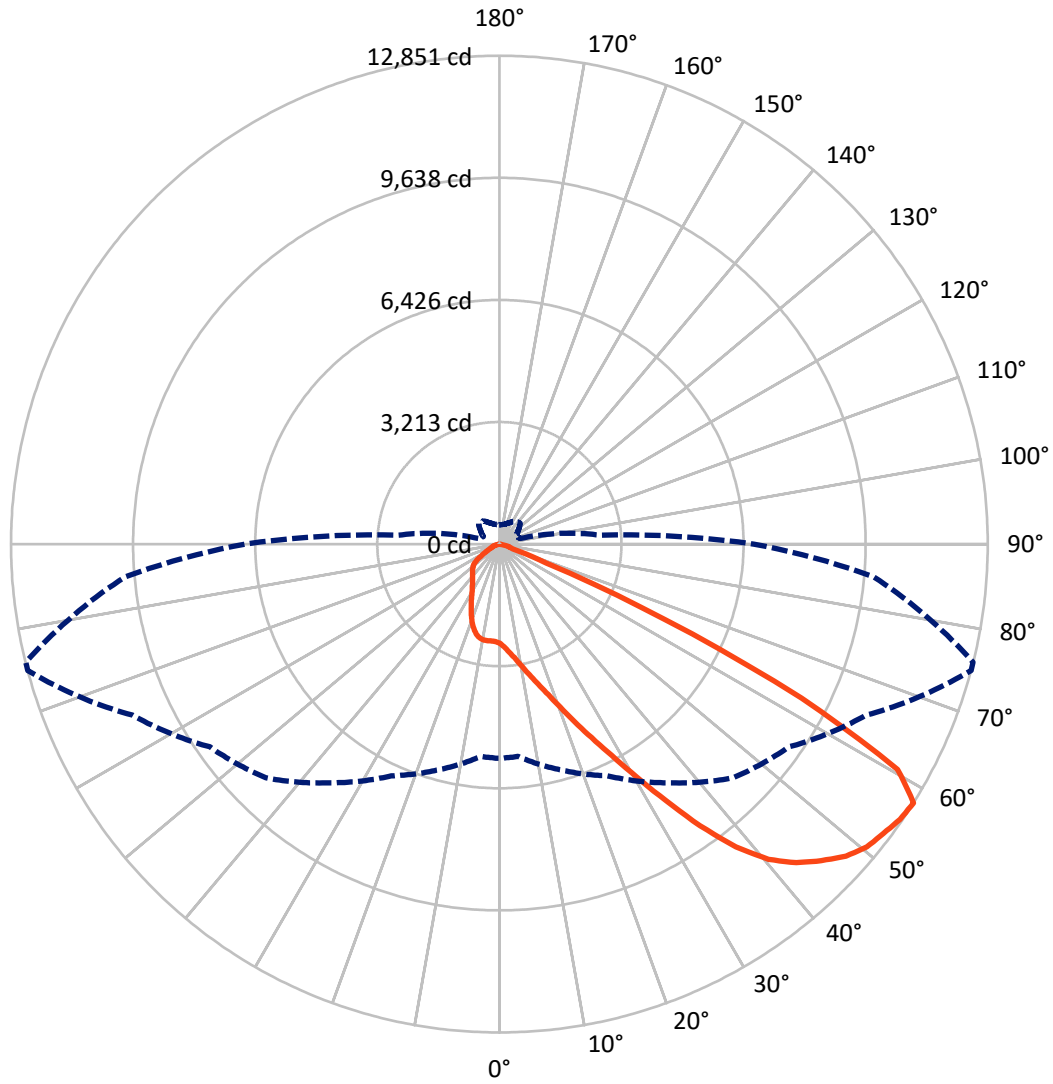
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2560.2	0.0	2560.2
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	13113.1	0.0	13113.1
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	15673.3	0.0	15673.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.0	1.7
10°-20°	864.1	5.5
20°-30°	1582.4	10.1
30°-40°	2625.3	16.8
40°-50°	4009.5	25.6
50°-60°	4505.3	28.7
60°-70°	1661.8	10.6
70°-80°	158.8	1.0
80°-90°	0.1	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°	15673.3	100.0
0°-180°	15673.3	100.0

**Coefficient of Utilization**

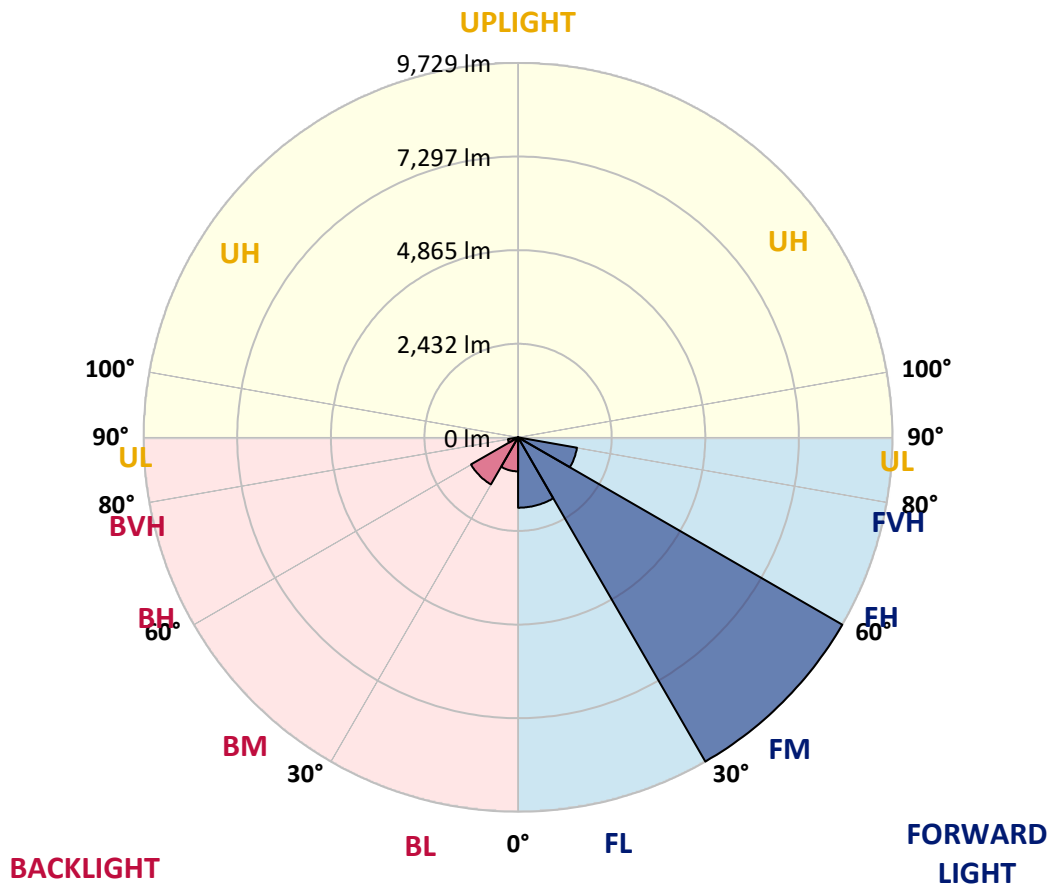


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1829.0	11.7			
FM (30°-60°)	9729.3	62.1			
FH (60°-80°)	1554.7	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	883.4	5.6	B2/1000		
BM (30°-60°)	1410.8	9.0	B2/2500		
BH (60°-80°)	265.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1
2.5°	2920.5	2950.8	2941.3	2922.4	2911.1	2871.3	2846.7	2774.9	2723.8	2718.1	2670.8
5°	3289.4	3283.7	3276.1	3253.4	3234.5	3172.1	3098.3	2977.3	2869.4	2856.2	2756.0
7.5°	3491.8	3495.5	3499.3	3495.5	3482.3	3435.0	3353.7	3211.8	3047.2	3035.9	2877.0
10°	3575.0	3582.5	3601.5	3637.4	3669.6	3665.8	3618.5	3472.8	3270.4	3251.5	3037.8
12.5°	3614.7	3624.2	3654.4	3722.5	3809.5	3877.6	3885.2	3754.7	3531.5	3501.2	3228.8
15°	3669.6	3679.0	3716.8	3805.7	3932.5	4066.8	4153.8	4070.6	3820.9	3788.7	3438.8
17.5°	3694.1	3707.4	3762.2	3879.5	4044.1	4250.3	4447.0	4439.4	4163.2	4138.7	3682.8
20°	3741.4	3750.9	3800.1	3926.8	4125.4	4422.4	4753.4	4872.6	4581.3	4545.3	3977.9
22.5°	3890.9	3894.7	3917.3	3996.8	4182.2	4547.2	5065.5	5377.6	5075.0	5027.7	4308.9
25°	4134.9	4133.0	4142.4	4155.7	4291.9	4674.0	5366.3	5947.0	5640.5	5589.5	4683.4
27.5°	4445.1	4445.1	4467.8	4430.0	4484.8	4831.0	5663.2	6601.4	6298.8	6226.9	5093.9
30°	4810.1	4808.3	4861.2	4800.7	4817.7	5078.7	5982.9	7314.5	7093.2	7004.3	5566.8
32.5°	5305.7	5294.4	5354.9	5271.7	5214.9	5453.3	6372.5	8059.8	8044.7	7908.5	6160.7
35°	5931.8	5912.9	5931.8	5850.5	5748.3	5977.2	6883.3	8803.2	9100.1	8956.4	6868.1
37.5°	6554.1	6614.7	6635.5	6495.5	6412.3	6641.1	7498.0	9469.0	10108.3	9958.9	7603.9
40°	7288.0	7269.1	7341.0	7184.0	7131.1	7384.5	8099.5	9964.6	10906.5	10764.7	8258.4
42.5°	7829.0	7863.1	7952.0	7865.0	7823.3	8061.7	8604.5	10254.0	11460.8	11320.8	8725.6
45°	8477.8	8502.4	8536.5	8464.6	8421.1	8655.6	8969.6	10380.7	11882.6	11731.2	9039.6
47.5°	9179.6	9198.5	9198.5	9050.9	8911.0	9007.4	9213.6	10452.6	12270.3	12124.7	9272.3
50°	9682.7	9692.2	9775.4	9671.4	9366.8	9217.4	9325.2	10522.6	12527.6	12391.4	9347.9
52.5°	9236.3	9225.0	9499.2	9714.9	9796.2	9499.2	9518.2	10624.7	12652.4	12535.1	9408.4
55°	7778.0	7759.0	8144.9	8668.9	9385.7	9765.9	9750.8	10685.2	12790.5	12718.6	9627.9
57.5°	5638.6	5606.5	6143.7	6726.3	7666.4	8697.2	9302.5	10651.2	12851.0	12845.3	9883.2
60°	3389.6	3363.1	3870.1	4482.9	5209.3	6245.8	7250.2	9540.9	12041.5	12052.8	9219.3
62.5°	2086.4	2110.9	2568.7	2880.8	3151.3	3463.4	4044.1	6417.9	8920.4	8994.2	6478.5
65°	1403.5	1422.4	1846.1	2239.6	2239.6	1831.0	1571.9	3068.1	4759.1	4634.2	3064.3
67.5°	942.0	962.8	1297.6	1757.2	1823.4	1276.8	637.4	915.5	1326.0	1286.2	758.5
70°	554.2	576.9	864.4	1204.9	1327.9	889.0	425.6	387.8	376.4	365.1	295.1
72.5°	247.8	257.2	440.7	612.9	559.9	374.5	300.8	310.2	293.2	287.5	240.2
75°	75.7	79.4	113.5	132.4	134.3	134.3	181.6	244.0	230.8	232.7	185.4
77.5°	18.9	18.9	30.3	28.4	15.1	13.2	34.0	54.9	56.7	51.1	37.8
80°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
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°	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1	2614.1
2.5°	2650.0	2600.8	2568.7	2523.3	2491.1	2457.1	2426.8	2402.2	2389.0	2385.2	2387.1
5°	2710.6	2633.0	2557.3	2470.3	2409.8	2353.1	2307.7	2271.7	2254.7	2249.0	2249.0
7.5°	2803.2	2695.4	2561.1	2424.9	2322.8	2233.9	2180.9	2141.2	2126.1	2122.3	2110.9
10°	2924.3	2776.8	2555.5	2343.6	2199.8	2107.2	2069.3	2058.0	2063.7	2065.5	2063.7
12.5°	3069.9	2861.9	2519.5	2224.4	2069.3	2012.6	2016.4	2046.6	2080.7	2097.7	2101.5
15°	3225.1	2939.4	2438.2	2082.6	1957.7	1955.8	2010.7	2080.7	2146.9	2175.3	2182.8
17.5°	3399.1	3001.9	2313.3	1931.2	1861.3	1916.1	2014.5	2122.3	2211.2	2258.5	2267.9
20°	3590.1	3052.9	2154.4	1789.4	1776.1	1874.5	2010.7	2143.1	2252.8	2305.8	2315.2
22.5°	3788.7	3088.9	1971.0	1658.9	1698.6	1827.2	1974.8	2103.4	2207.4	2267.9	2275.5
25°	4015.7	3092.6	1783.7	1549.2	1626.7	1762.9	1887.7	1993.7	2080.7	2133.6	2139.3
27.5°	4214.3	3047.2	1617.3	1460.3	1560.5	1683.5	1766.7	1825.3	1885.9	1916.1	1918.0
30°	4443.2	2967.8	1460.3	1388.4	1492.4	1585.1	1626.7	1640.0	1645.6	1651.3	1643.7
32.5°	4715.6	2871.3	1343.0	1318.4	1414.9	1477.3	1488.6	1462.1	1430.0	1384.6	1373.2
35°	5050.4	2784.3	1246.5	1250.3	1329.7	1367.6	1358.1	1301.4	1238.9	1184.1	1174.6
37.5°	5413.5	2710.6	1172.7	1184.1	1237.1	1263.5	1235.2	1172.7	1144.4	1097.1	1099.0
40°	5735.1	2650.0	1106.5	1117.9	1142.5	1167.1	1121.7	1080.1	1133.0	1129.2	1133.0
42.5°	5964.0	2599.0	1049.8	1044.1	1061.1	1078.2	1044.1	1023.3	1112.2	1087.6	1100.9
45°	6098.3	2551.7	1002.5	968.5	994.9	1025.2	1002.5	976.0	1006.3	892.8	883.3
47.5°	6189.1	2525.2	960.9	894.7	942.0	994.9	947.7	883.3	839.8	741.5	733.9
50°	6198.5	2511.9	911.7	819.0	879.6	936.3	881.5	792.5	730.1	686.6	680.9
52.5°	6247.7	2538.4	843.6	722.6	788.8	879.6	841.7	752.8	667.7	629.9	622.3
55°	6467.1	2650.0	730.1	590.2	686.6	836.1	809.6	671.5	590.2	567.5	561.8
57.5°	6694.1	2672.7	575.0	467.2	597.7	773.6	739.6	618.5	539.1	512.6	506.9
60°	6121.0	2201.7	431.3	385.9	527.7	715.0	684.7	586.4	493.7	461.5	455.9
62.5°	4021.4	1189.8	342.4	327.2	444.5	605.3	624.2	529.6	440.7	406.7	404.8
65°	1853.7	552.3	262.9	259.1	348.0	482.3	537.2	463.4	372.6	342.4	342.4
67.5°	505.0	274.3	206.2	191.0	236.4	323.5	391.5	346.1	264.8	228.9	227.0
70°	251.6	221.3	185.4	164.6	170.2	200.5	230.8	192.9	134.3	109.7	107.8
72.5°	206.2	181.6	157.0	140.0	128.6	122.9	119.2	96.5	62.4	47.3	45.4
75°	153.2	130.5	111.6	90.8	77.6	71.9	64.3	47.3	26.5	15.1	13.2
77.5°	34.0	32.2	30.3	22.7	20.8	17.0	13.2	9.5	3.8	0.0	0.0
80°	1.9	1.9	1.9	1.9	1.9	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)