

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: P642653

Luminaire Tested: GWS-SA6D-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642653  
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-SA6D-735-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

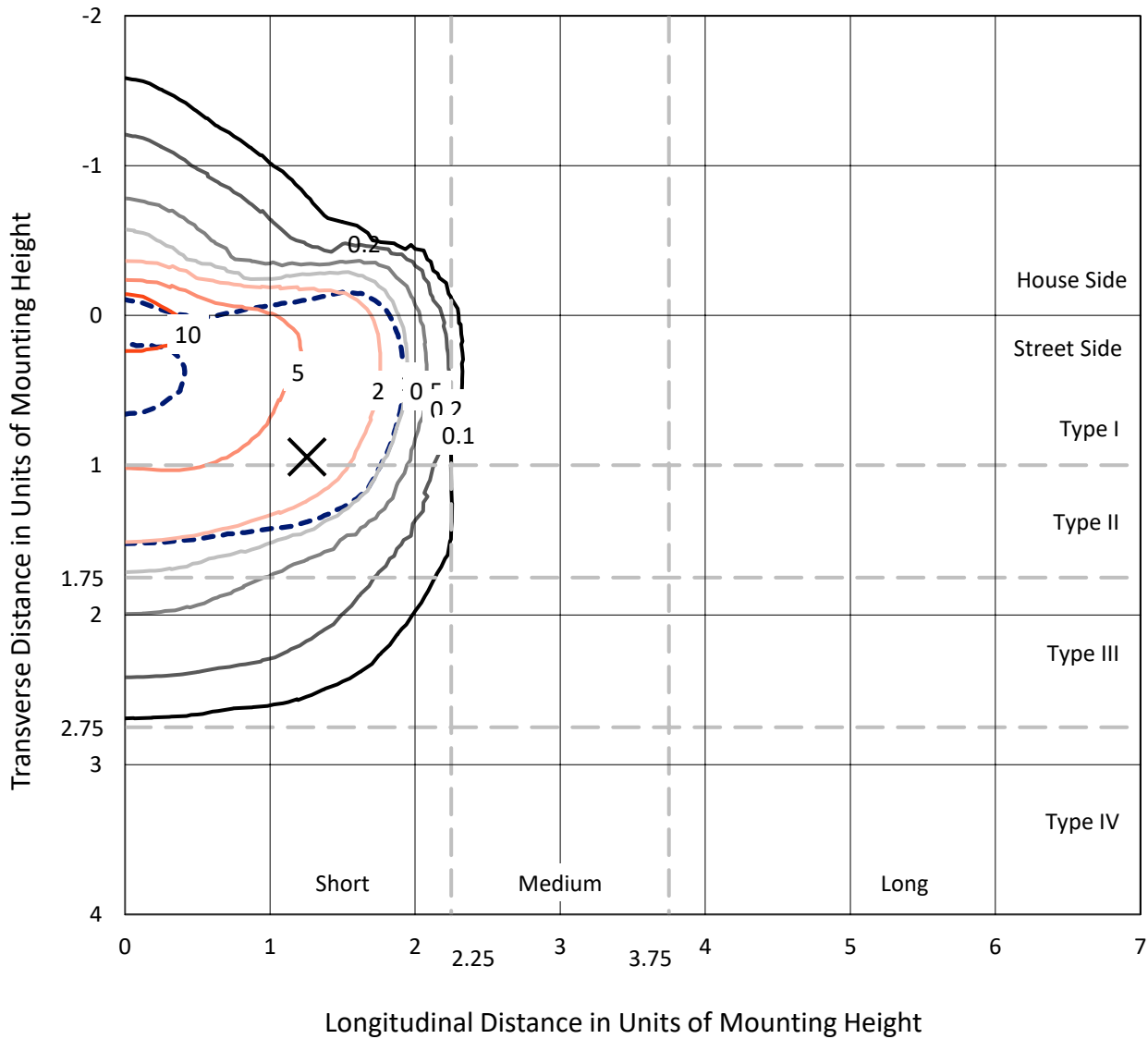
Lumens per Lamp: N/A  
Luminaire Lumens: 20664.8 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

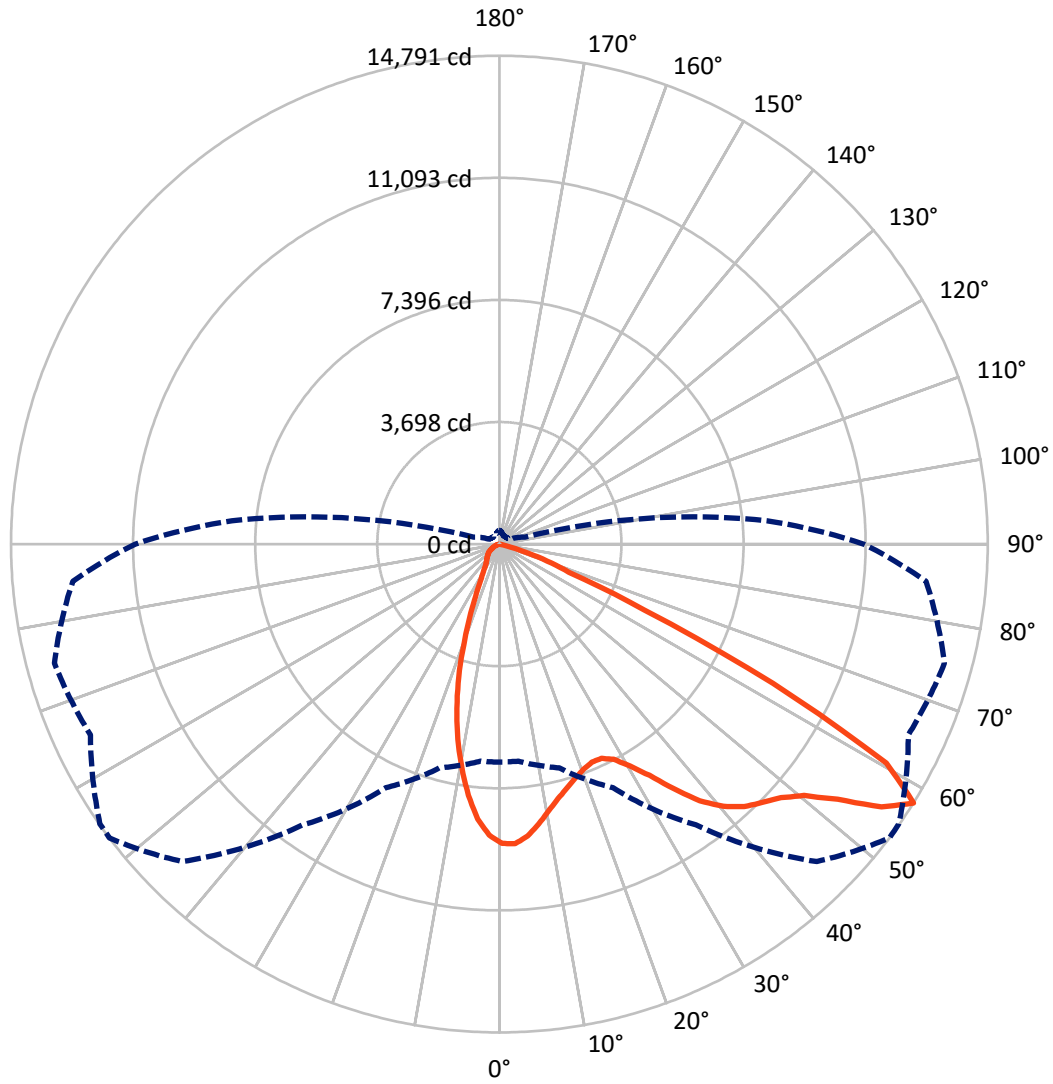
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	3413.6	0.0	3413.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17251.2	0.0	17251.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20664.8	0.0	20664.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.6	3.8
10°-20°	1702.6	8.2
20°-30°	2218.1	10.7
30°-40°	3217.4	15.6
40°-50°	4642.5	22.5
50°-60°	5614.7	27.2
60°-70°	2288.3	11.1
70°-80°	205.6	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°	20664.8	100.0
0°-180°	20664.8	100.0

**Coefficient of Utilization**



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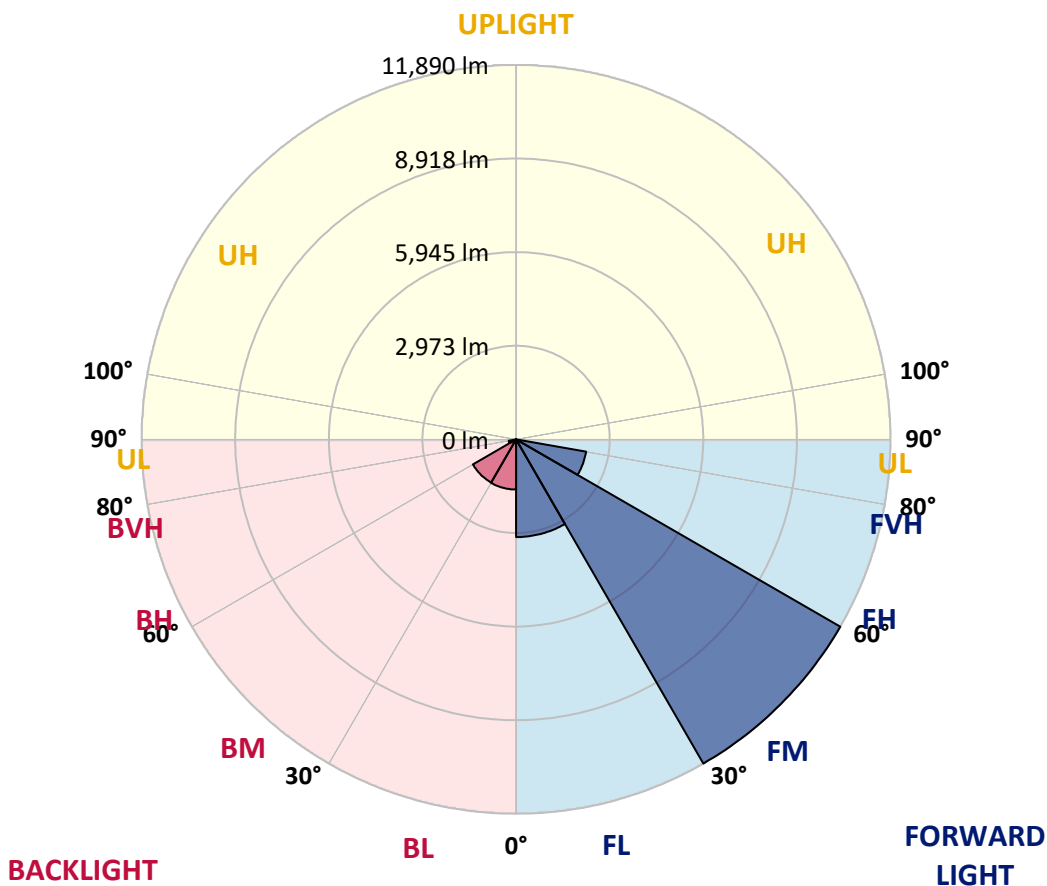
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3103.2	15.0			
FM (30°-60°)	11890.1	57.5			
FH (60°-80°)	2258.0	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1593.1	7.7	B3/2500		
BM (30°-60°)	1584.4	7.7	B2/2500		
BH (60°-80°)	236.0	1.1	B1/500		G1/500
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: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8
2.5°	8938.1	8958.4	8993.8	9039.4	9069.8	9085.0	9085.0	9128.1	9100.2	9077.4	9052.1
5°	8555.7	8575.9	8624.1	8697.5	8771.0	8824.1	8884.9	8930.5	8948.3	8948.3	8905.2
7.5°	8016.2	8044.1	8074.4	8175.8	8335.3	8454.4	8558.2	8624.1	8720.3	8750.7	8689.9
10°	7436.2	7464.1	7532.4	7671.7	7854.1	8031.4	8208.7	8292.3	8456.9	8543.0	8474.6
12.5°	6944.8	6957.5	7048.7	7215.8	7448.9	7692.0	7907.3	7993.4	8226.4	8355.6	8274.5
15°	6539.6	6547.2	6638.4	6823.3	7091.7	7390.6	7661.6	7750.3	8036.5	8231.5	8109.9
17.5°	6233.1	6235.7	6314.2	6514.3	6795.4	7127.2	7448.9	7557.8	7927.5	8163.1	7980.7
20°	6078.6	6071.0	6126.8	6301.5	6567.5	6899.2	7279.2	7413.4	7866.8	8153.0	7882.0
22.5°	6081.2	6063.4	6086.2	6210.3	6435.8	6747.3	7172.8	7324.8	7871.8	8196.0	7798.4
25°	6225.5	6200.2	6205.3	6271.1	6430.7	6714.4	7188.0	7350.1	7973.1	8340.4	7768.0
27.5°	6468.7	6440.8	6440.8	6473.7	6559.9	6818.2	7377.9	7562.8	8244.1	8621.5	7831.3
30°	6782.7	6754.9	6744.7	6777.7	6848.6	7086.7	7800.9	7993.4	8707.6	9082.5	8033.9
32.5°	7142.4	7109.5	7127.2	7172.8	7241.2	7570.4	8345.5	8601.3	9287.6	9703.0	8398.6
35°	7522.3	7494.4	7575.5	7674.3	7780.6	8241.6	9097.7	9320.6	9999.3	10475.5	8955.9
37.5°	7884.5	7871.8	8041.5	8249.2	8469.6	9047.0	9862.6	10034.8	10609.7	11316.4	9637.2
40°	8246.7	8244.1	8535.4	8900.1	9252.2	9849.9	10442.6	10584.4	10982.1	11969.8	10290.6
42.5°	8651.9	8651.9	9054.6	9540.9	10009.5	10528.7	10868.1	10931.4	11149.2	12347.2	10782.0
45°	9039.4	9062.2	9528.3	10093.1	10647.7	11058.0	11161.9	11167.0	11217.6	12570.1	11189.7
47.5°	9345.9	9366.2	9923.4	10574.3	11172.0	11460.8	11475.9	11453.2	11397.4	12782.9	11503.8
50°	9594.1	9624.5	10207.0	10895.9	11531.7	11848.3	11964.8	11942.0	11800.1	13010.8	11724.2
52.5°	9715.7	9758.7	10305.8	11055.5	11931.8	12511.8	12836.0	12889.2	12402.9	13137.4	11934.4
55°	8743.1	8806.4	9310.4	10336.2	12154.7	13537.6	14046.7	14036.6	13056.4	13514.8	12446.0
57.5°	6602.9	6597.8	7015.8	8137.8	10381.8	13595.9	14791.3	14771.1	13666.8	13953.0	12970.3
60°	4495.7	4465.3	4576.7	5118.7	7258.9	11075.8	13461.6	13735.2	13233.7	12889.2	11012.5
62.5°	3700.4	3672.5	3637.0	3487.6	4168.9	6899.2	9300.3	9715.7	9649.8	8958.4	6906.8
65°	3029.2	3052.0	3150.8	3087.4	2900.0	3538.3	4827.4	5073.1	4637.5	3903.0	2413.7
67.5°	2233.9	2244.0	2373.2	2707.5	2606.2	2355.5	2271.9	2312.4	1355.0	623.1	402.7
70°	1319.6	1327.2	1446.2	1894.5	2114.9	1808.4	1534.9	1512.1	536.9	167.2	182.4
72.5°	747.2	732.0	754.8	901.7	1152.4	959.9	790.2	719.3	162.1	93.7	93.7
75°	354.6	344.5	296.3	278.6	253.3	162.1	101.3	86.1	40.5	38.0	38.0
77.5°	2.5	7.6	5.1	7.6	7.6	5.1	2.5	2.5	7.6	7.6	10.1
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°	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8	9064.8
2.5°	9006.5	8930.5	8912.8	8907.7	8836.8	8760.8	8682.3	8651.9	8606.3	8578.5	8601.3
5°	8836.8	8727.9	8631.7	8543.0	8386.0	8213.8	8064.3	7968.1	7876.9	7816.1	7831.3
7.5°	8596.2	8454.4	8234.0	8008.6	7719.9	7461.5	7172.8	6995.5	6830.9	6739.7	6782.7
10°	8340.4	8153.0	7800.9	7418.5	6965.1	6559.9	6147.0	5810.2	5615.1	5430.2	5450.5
12.5°	8089.6	7841.4	7314.6	6734.6	6162.2	5564.5	4941.4	4475.4	4156.3	3925.8	3890.3
15°	7856.6	7537.5	6841.0	6076.1	5296.0	4500.7	3705.4	3039.3	2669.5	2441.6	2426.4
17.5°	7648.9	7253.8	6349.6	5387.2	4409.5	3391.4	2477.0	1978.1	1765.3	1666.6	1656.4
20°	7448.9	6967.6	5848.2	4688.1	3442.0	2380.8	1709.6	1479.1	1410.7	1370.2	1375.3
22.5°	7256.4	6656.1	5321.3	3913.1	2580.9	1671.6	1324.6	1236.0	1228.4	1233.5	1236.0
25°	7094.3	6369.9	4779.3	3166.0	1841.3	1274.0	1106.8	1081.5	1104.3	1137.2	1142.3
27.5°	7010.7	6136.9	4250.0	2413.7	1332.2	1035.9	959.9	970.0	1010.6	1046.0	1051.1
30°	7033.5	5962.1	3702.9	1750.1	1025.8	873.8	848.5	868.7	909.3	942.2	947.3
32.5°	7195.6	5873.5	3143.2	1274.0	843.4	762.4	752.2	767.4	802.9	828.2	830.7
35°	7517.2	5893.7	2611.3	975.1	724.4	678.8	676.2	686.4	704.1	721.8	724.4
37.5°	7990.9	6058.4	2087.0	810.5	656.0	623.1	612.9	612.9	625.6	633.2	638.3
40°	8500.0	6306.6	1671.6	716.8	607.9	572.4	552.1	544.5	554.7	564.8	567.3
42.5°	8920.4	6554.8	1357.6	650.9	569.9	521.7	496.4	491.4	504.0	521.7	526.8
45°	9242.1	6747.3	1132.1	597.7	526.8	473.6	445.8	445.8	468.6	499.0	504.0
47.5°	9535.9	6901.8	965.0	549.6	486.3	430.6	402.7	407.8	445.8	486.3	493.9
50°	9735.9	7025.9	840.9	506.6	453.4	395.1	369.8	379.9	425.5	473.6	481.2
52.5°	9951.2	7177.9	759.8	468.6	423.0	367.3	344.5	352.1	402.7	455.9	466.0
55°	10546.4	7686.9	757.3	417.9	369.8	329.3	319.1	321.7	372.3	433.1	445.8
57.5°	11032.7	8135.2	808.0	352.1	309.0	288.7	283.7	286.2	331.8	400.2	415.4
60°	9128.1	6321.8	668.6	291.3	258.3	253.3	245.7	250.7	293.8	354.6	367.3
62.5°	5402.4	3614.3	319.1	222.9	220.4	215.3	207.7	217.8	258.3	311.5	319.1
65°	1846.4	1071.4	202.6	182.4	187.4	179.8	172.2	182.4	217.8	248.2	250.7
67.5°	354.6	283.7	162.1	152.0	154.5	139.3	136.8	146.9	167.2	172.2	169.7
70°	184.9	164.6	124.1	124.1	119.0	98.8	98.8	108.9	108.9	101.3	98.8
72.5°	96.2	91.2	81.0	91.2	76.0	60.8	60.8	65.9	60.8	50.7	50.7
75°	38.0	38.0	35.5	45.6	32.9	27.9	25.3	30.4	22.8	17.7	17.7
77.5°	10.1	10.1	10.1	12.7	7.6	7.6	5.1	5.1	2.5	0.0	0.0
80°	0.0	2.5	0.0	2.5	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)