

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: P641686

Luminaire Tested: GWS-SA6B-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-735-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

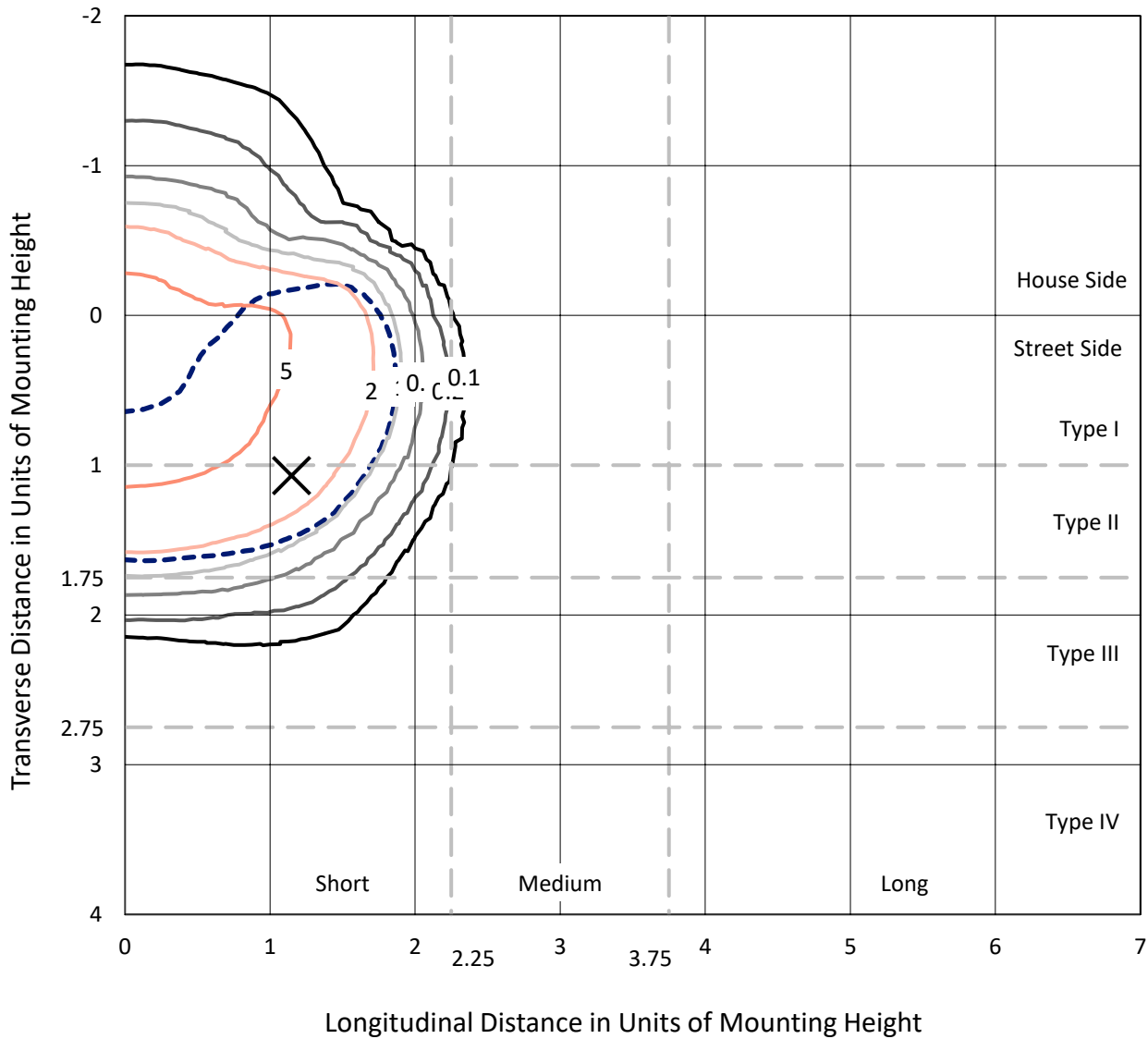
Lumens per Lamp: N/A  
Luminaire Lumens: 12895.1 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

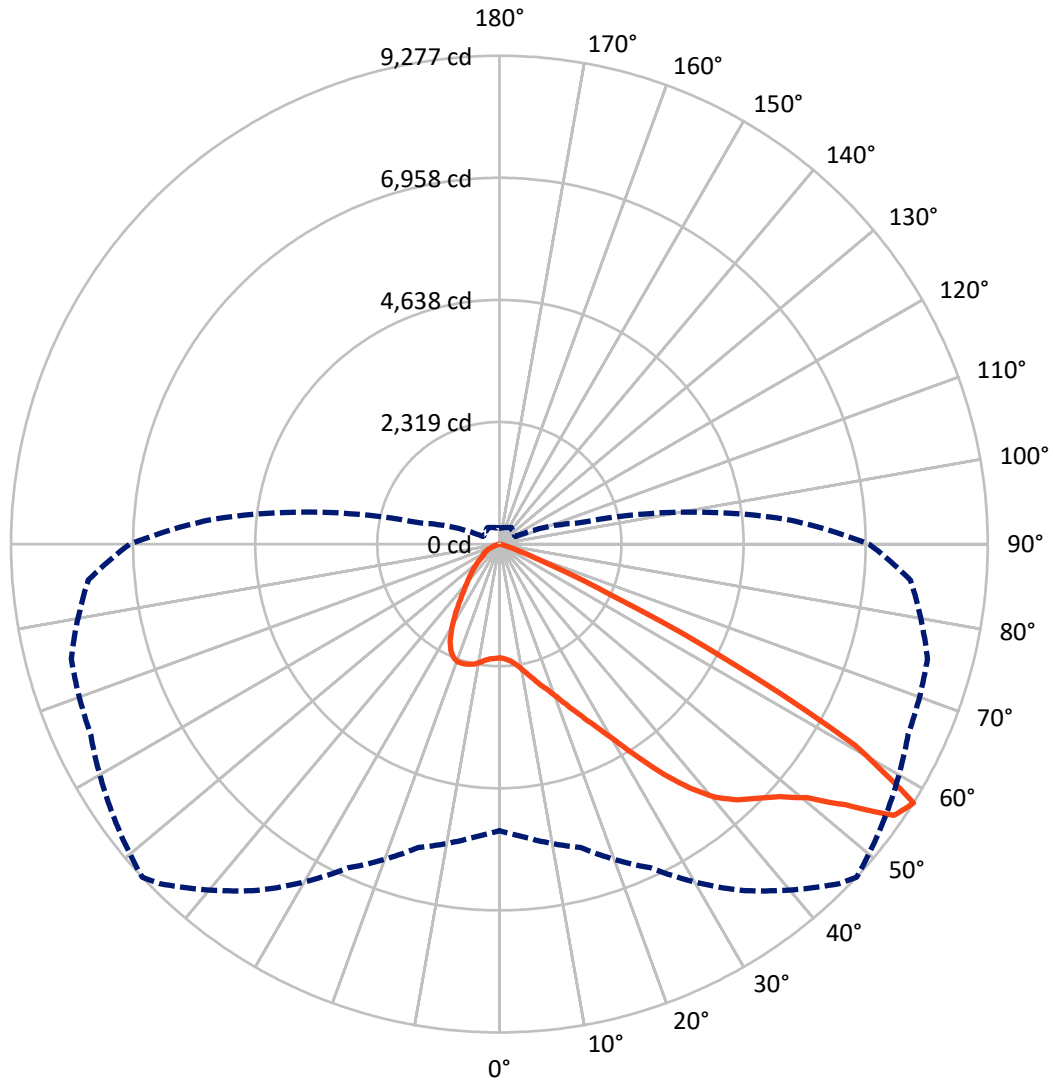
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2797.6	0.0	2797.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	10097.5	0.0	10097.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	12895.1	0.0	12895.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.8	1.7
10°-20°	724.6	5.6
20°-30°	1345.5	10.4
30°-40°	2153.9	16.7
40°-50°	3148.5	24.4
50°-60°	3885.8	30.1
60°-70°	1298.4	10.1
70°-80°	121.0	0.9
80°-90°	2.5	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°	12895.1	100.0
0°-180°	12895.1	100.0

**Coefficient of Utilization**



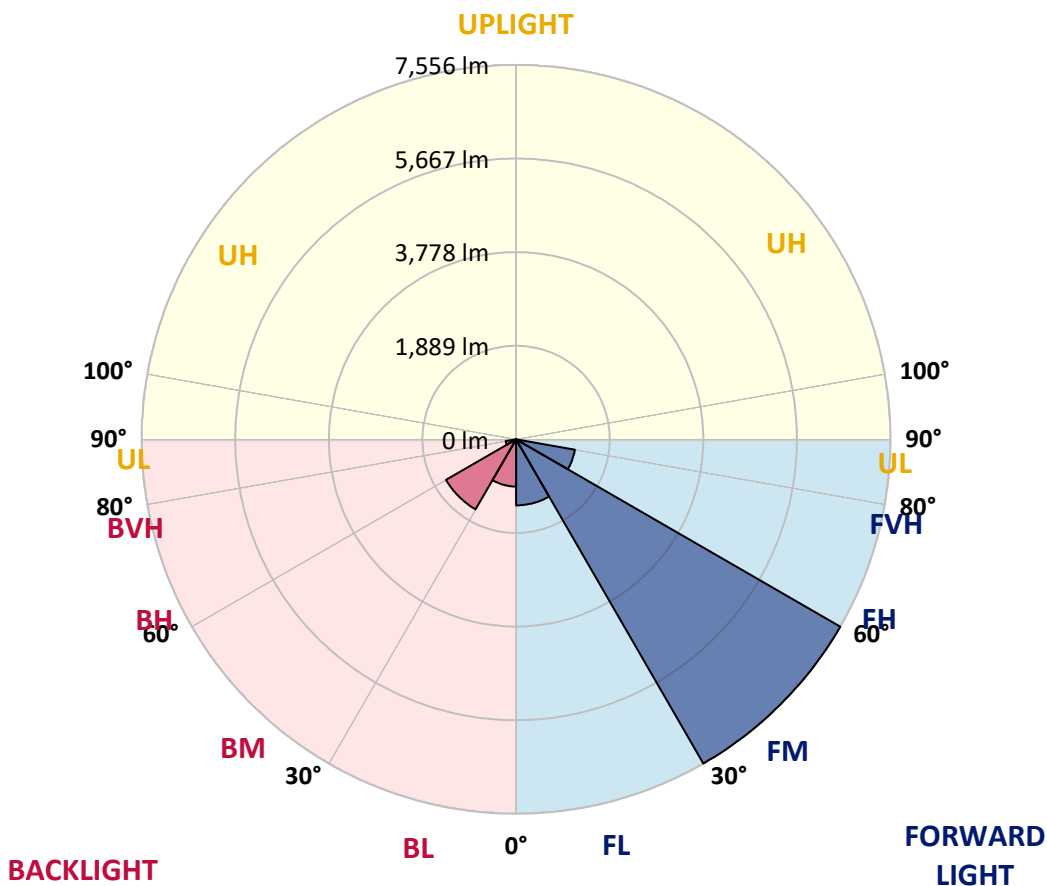
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.7	10.3			
FM (30°-60°)	7556.4	58.6			
FH (60°-80°)	1206.7	9.4			G1/1800
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	952.3	7.4	B2/1000		
BM (30°-60°)	1631.8	12.7	B2/2500		
BH (60°-80°)	212.7	1.6	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7
2.5°	2181.1	2179.6	2178.1	2187.1	2184.1	2182.6	2185.6	2185.6	2185.6	2176.6	2158.7
5°	2233.5	2233.5	2232.0	2241.0	2233.5	2229.0	2230.5	2230.5	2224.5	2208.1	2185.6
7.5°	2315.8	2312.8	2309.8	2318.8	2311.3	2309.8	2312.8	2303.9	2293.4	2266.4	2235.0
10°	2434.1	2434.1	2429.6	2438.6	2432.6	2429.6	2429.6	2423.6	2404.2	2362.2	2315.8
12.5°	2597.3	2589.8	2579.3	2571.8	2568.8	2567.3	2568.8	2559.8	2538.9	2485.0	2420.6
15°	2775.4	2769.4	2753.0	2741.0	2724.5	2721.5	2730.5	2723.0	2702.1	2628.7	2537.4
17.5°	3000.0	3007.4	2965.5	2940.1	2892.2	2889.2	2892.2	2904.2	2889.2	2794.9	2661.6
20°	3191.6	3197.6	3166.1	3148.2	3104.7	3085.3	3091.3	3110.7	3094.3	2983.5	2797.9
22.5°	3396.7	3404.1	3371.2	3333.8	3314.3	3314.3	3336.8	3363.7	3341.3	3196.1	2953.6
25°	3642.2	3648.2	3621.2	3571.8	3537.4	3580.8	3613.7	3685.6	3648.2	3450.6	3137.7
27.5°	3923.6	3925.1	3886.2	3835.3	3817.3	3898.2	3931.1	4041.9	4026.9	3736.5	3332.3
30°	4224.5	4226.0	4217.0	4182.6	4166.1	4272.4	4317.3	4477.5	4467.0	4091.3	3597.3
32.5°	4537.4	4537.4	4553.8	4550.8	4570.3	4743.9	4815.8	4998.4	4988.0	4525.4	3926.6
35°	4851.7	4853.2	4881.7	4953.5	5034.4	5264.9	5359.2	5580.8	5556.8	5044.8	4347.2
37.5°	5209.5	5194.5	5233.5	5341.2	5520.9	5787.3	5877.2	6088.2	6061.3	5576.3	4896.6
40°	5640.6	5613.7	5613.7	5739.4	5943.0	6249.9	6326.3	6431.1	6339.7	6005.9	5435.6
42.5°	6116.7	6091.2	6058.3	6169.1	6339.7	6579.3	6642.1	6613.7	6538.8	6411.6	6049.3
45°	6598.7	6559.8	6582.2	6649.6	6748.4	6862.2	6886.1	6754.4	6720.0	6755.9	6556.8
47.5°	6965.5	6938.5	6993.9	7088.2	7169.1	7185.5	7169.1	6986.4	6983.4	7110.7	6908.6
50°	7088.2	7091.2	7243.9	7450.5	7580.7	7594.2	7571.8	7362.2	7333.7	7371.2	7098.7
52.5°	7100.2	7112.2	7335.2	7728.9	8083.7	8245.4	8227.4	8001.4	7723.0	7682.5	7386.1
55°	6811.3	6881.6	7193.0	7767.9	8522.3	9038.8	9098.7	8666.1	8252.9	8218.5	8004.4
57.5°	5444.5	5588.2	5964.0	6782.8	8032.8	9121.1	9276.8	8965.4	8565.8	8419.0	7838.2
60°	3254.4	3432.6	3793.4	4797.8	6113.7	7496.9	7764.9	7808.3	7624.1	7200.5	6013.4
62.5°	1396.7	1381.7	1826.3	2595.8	3636.2	4764.9	4886.2	5074.8	5235.0	4791.9	3649.7
65°	479.0	521.0	724.5	1170.6	1820.3	2212.5	2320.3	2489.5	2717.0	2242.5	1336.8
67.5°	296.4	314.4	417.7	691.6	982.0	967.1	919.1	892.2	868.3	594.3	366.8
70°	215.6	230.5	293.4	476.0	660.2	464.1	402.7	326.3	362.3	333.8	260.5
72.5°	145.2	157.2	202.1	288.9	338.3	226.0	209.6	238.0	287.4	273.9	212.6
75°	86.8	94.3	115.3	140.7	137.7	116.8	118.3	167.7	220.1	205.1	151.2
77.5°	59.9	62.9	76.3	91.3	67.4	35.9	32.9	46.4	74.8	74.8	50.9
80°	15.0	19.5	19.5	12.0	10.5	9.0	9.0	13.5	21.0	15.0	7.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0
85°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
87.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
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°	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7
2.5°	2169.1	2151.2	2163.1	2160.2	2169.1	2172.1	2158.7	2155.7	2157.2	2139.2	2133.2
5°	2190.1	2169.1	2175.1	2169.1	2179.6	2188.6	2184.1	2190.1	2197.6	2184.1	2178.1
7.5°	2235.0	2214.0	2212.5	2203.6	2218.5	2224.5	2223.0	2239.5	2254.5	2245.5	2236.5
10°	2312.8	2284.4	2281.4	2273.9	2278.4	2282.9	2266.4	2269.4	2282.9	2272.4	2267.9
12.5°	2408.7	2374.2	2366.7	2348.8	2348.8	2326.3	2290.4	2282.9	2293.4	2285.9	2278.4
15°	2511.9	2465.5	2453.6	2422.1	2392.2	2350.3	2312.8	2303.9	2311.3	2302.4	2296.4
17.5°	2627.2	2574.8	2535.9	2480.5	2414.6	2365.2	2323.3	2303.9	2291.9	2273.9	2272.4
20°	2741.0	2672.1	2606.3	2517.9	2431.1	2356.3	2287.4	2236.5	2193.1	2166.1	2155.7
22.5°	2872.7	2770.9	2664.6	2540.4	2416.1	2302.4	2181.1	2094.3	2019.4	1994.0	1982.0
25°	3013.4	2881.7	2723.0	2561.3	2365.2	2182.6	2017.9	1889.2	1790.4	1757.5	1744.0
27.5°	3169.1	2988.0	2782.9	2556.9	2260.4	2011.9	1793.4	1633.2	1535.9	1506.0	1516.4
30°	3366.7	3125.7	2857.7	2510.4	2103.3	1772.4	1516.4	1381.7	1308.4	1279.9	1281.4
32.5°	3630.2	3323.3	2967.0	2411.6	1901.2	1500.0	1275.4	1176.6	1127.2	1089.8	1086.8
35°	4007.4	3624.2	3068.8	2253.0	1655.7	1257.5	1094.3	1016.5	947.6	904.2	911.7
37.5°	4459.5	4002.9	3124.2	2038.9	1380.2	1068.8	958.1	878.7	800.9	736.5	744.0
40°	4995.4	4498.4	3119.7	1757.5	1128.7	940.1	844.3	751.5	654.2	595.8	601.8
42.5°	5592.7	4967.0	3022.4	1459.6	935.6	835.3	735.0	618.3	523.9	488.0	489.5
45°	6110.7	5347.2	2851.8	1151.2	787.4	733.5	621.2	501.5	459.6	434.1	432.6
47.5°	6493.9	5625.7	2607.7	905.7	667.7	640.7	510.5	449.1	416.2	395.2	392.2
50°	6708.0	5723.0	2338.3	709.6	564.4	543.4	456.6	407.2	384.7	371.3	368.3
52.5°	6995.4	5839.7	2145.2	559.9	473.0	444.6	420.7	378.7	363.8	353.3	348.8
55°	7450.5	6065.8	1977.5	444.6	393.7	387.7	396.7	362.3	353.3	336.8	330.8
57.5°	7022.4	5449.0	1535.9	344.3	332.3	354.8	383.2	345.8	323.3	308.4	302.4
60°	4941.6	3622.7	772.4	276.9	296.4	332.3	360.8	312.9	290.4	293.4	290.4
62.5°	2724.5	1812.8	347.3	232.0	257.5	293.4	308.4	271.0	256.0	281.4	285.9
65°	890.7	616.8	200.6	179.6	203.6	239.5	266.5	257.5	254.5	284.4	293.4
67.5°	273.9	203.6	136.2	128.7	140.7	176.6	224.5	278.4	299.4	308.4	312.9
70°	205.1	160.2	116.8	109.3	115.3	134.7	190.1	232.0	218.6	220.1	217.1
72.5°	164.7	127.2	100.3	95.8	95.8	92.8	100.3	125.7	142.2	149.7	149.7
75°	115.3	89.8	76.3	70.4	55.4	44.9	40.4	40.4	35.9	34.4	32.9
77.5°	38.9	32.9	29.9	24.0	16.5	13.5	12.0	10.5	7.5	4.5	3.0
80°	6.0	4.5	3.0	3.0	3.0	1.5	1.5	1.5	0.0	0.0	0.0
82.5°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	0.0	0.0	0.0	0.0
85°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	3.0	3.0	1.5	1.5	1.5	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)