

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: P639044

Luminaire Tested: GWS-SA5B-722-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

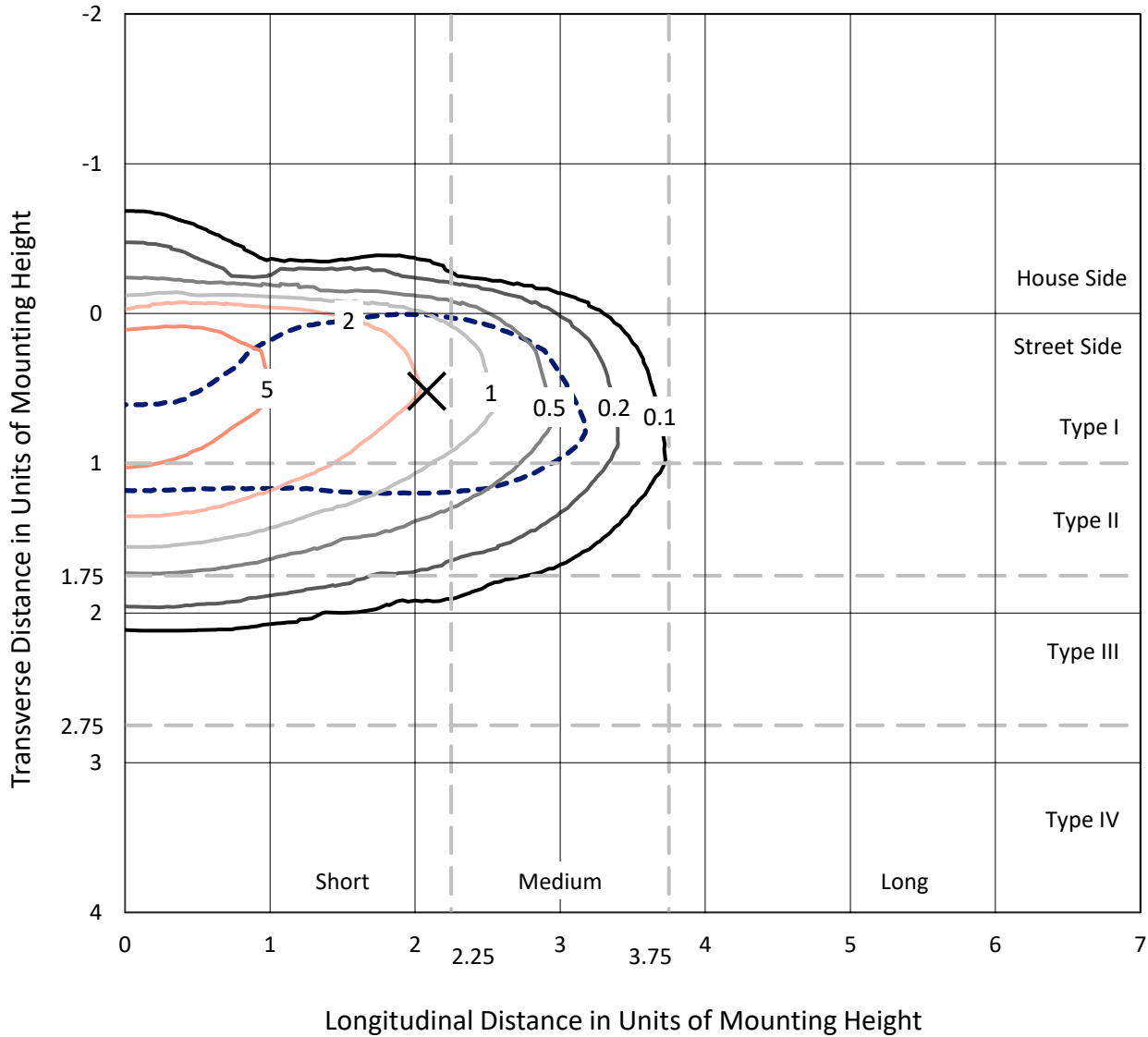
Lumens per Lamp: N/A  
Luminaire Lumens: 10547.8 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

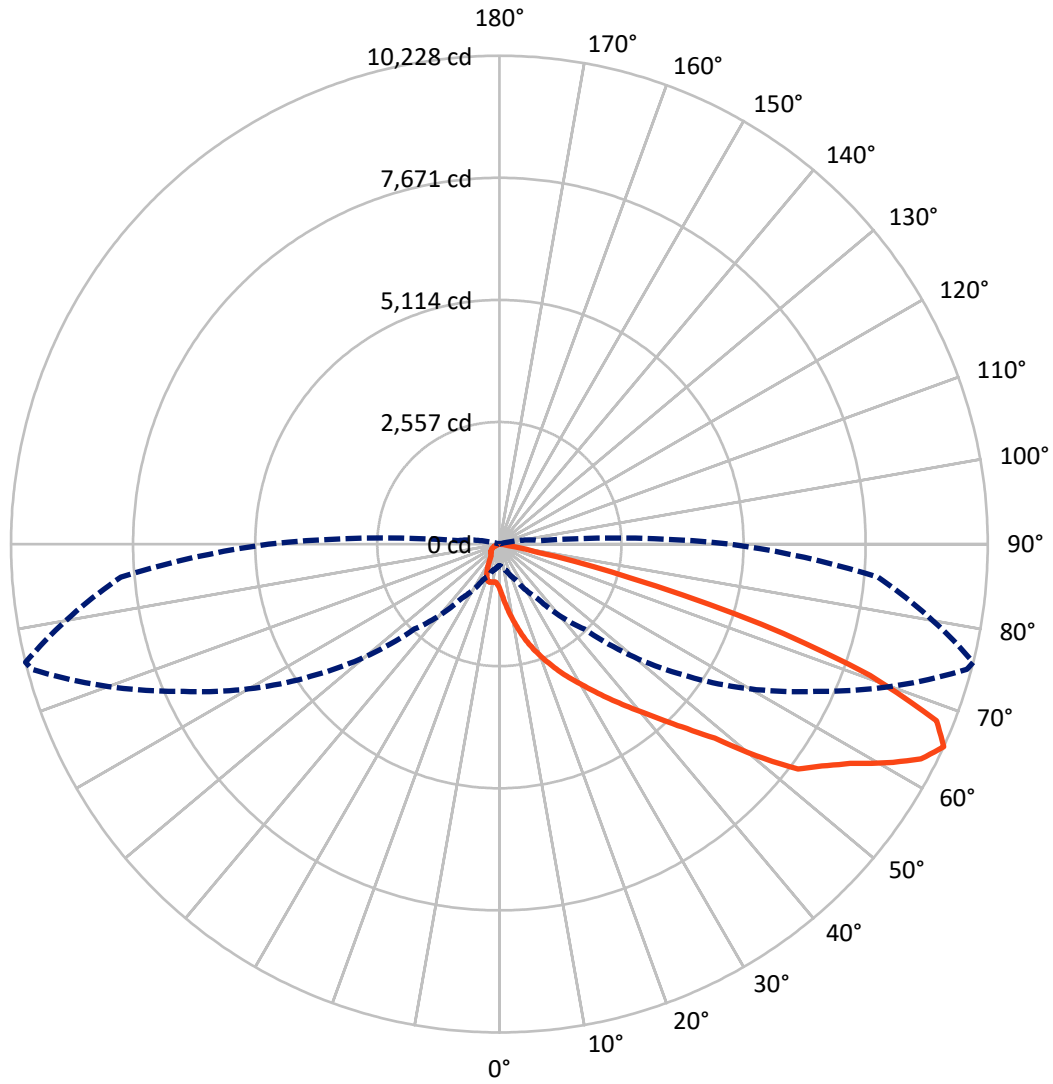
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	583.2	0.0	583.2
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	9964.6	0.0	9964.6
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	10547.8	0.0	10547.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	1.1
10°-20°	431.1	4.1
20°-30°	879.5	8.3
30°-40°	1564.2	14.8
40°-50°	2312.2	21.9
50°-60°	2647.3	25.1
60°-70°	2019.8	19.1
70°-80°	565.8	5.4
80°-90°	14.2	0.1
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°	10547.8	100.0
0°-180°	10547.8	100.0

**Coefficient of Utilization**



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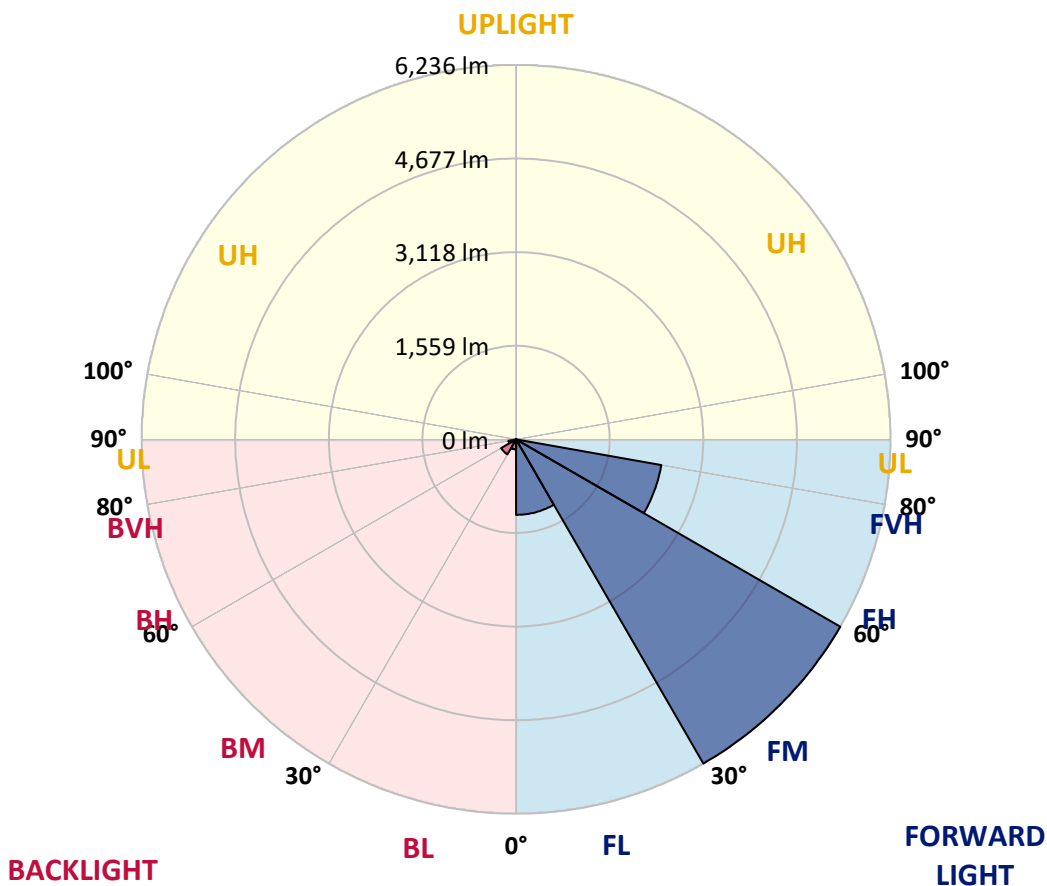
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.7	11.9			
FM (30°-60°)	6236.0	59.1			
FH (60°-80°)	2457.4	23.3			G2/5000
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	166.4	1.6	B1/500		
BM (30°-60°)	287.8	2.7	B1/1000		
BH (60°-80°)	128.2	1.2	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: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	1439.2	1460.8	1443.9	1415.8	1361.4	1308.9	1241.4	1148.6	1074.5	1065.1	995.7
5°	1943.7	1941.8	1905.2	1868.7	1811.5	1721.5	1585.5	1413.0	1247.0	1233.0	1077.3
7.5°	2243.7	2246.5	2225.9	2197.8	2141.5	2048.7	1907.1	1699.0	1456.1	1428.0	1188.9
10°	2495.9	2495.0	2480.0	2466.9	2416.2	2354.4	2202.5	1973.7	1681.1	1637.1	1313.6
12.5°	2685.3	2691.9	2699.4	2712.5	2691.0	2630.0	2486.6	2237.2	1909.0	1860.2	1456.1
15°	2835.3	2837.2	2865.4	2916.0	2933.8	2901.9	2771.6	2492.2	2134.0	2091.8	1620.2
17.5°	2880.4	2884.1	2931.9	3024.7	3118.5	3136.3	3037.9	2749.1	2355.3	2310.3	1779.6
20°	2975.1	2983.5	3019.1	3100.7	3218.8	3314.5	3276.0	3008.8	2576.6	2517.5	1942.7
22.5°	3273.2	3277.9	3265.7	3276.0	3337.0	3447.6	3471.1	3260.1	2803.5	2740.7	2119.0
25°	3786.1	3788.0	3702.6	3622.0	3576.1	3596.7	3648.3	3491.7	3028.5	2966.6	2283.1
27.5°	4318.7	4325.2	4223.0	4086.1	3922.0	3828.3	3813.3	3703.6	3255.4	3187.0	2445.3
30°	4820.3	4820.3	4712.5	4545.6	4326.2	4143.3	4035.5	3917.4	3498.2	3423.2	2611.3
32.5°	5271.3	5267.5	5129.7	4948.7	4732.1	4531.5	4304.6	4140.5	3768.3	3684.8	2802.5
35°	5643.5	5634.1	5477.5	5304.1	5072.5	4923.4	4670.3	4380.5	4060.8	3977.4	2999.4
37.5°	5924.8	5914.5	5771.0	5587.3	5372.5	5276.0	5064.1	4668.4	4369.3	4293.3	3217.9
40°	6077.6	6057.0	5957.6	5820.7	5640.7	5556.3	5468.2	5025.6	4732.1	4637.4	3475.7
42.5°	6122.6	6098.3	6032.6	5968.9	5860.1	5793.5	5888.2	5428.8	5130.6	5049.1	3770.2
45°	5989.5	5975.4	5969.8	6015.7	6035.4	6054.2	6287.6	5875.1	5570.4	5508.5	4140.5
47.5°	5668.8	5665.1	5714.8	5906.0	6114.2	6312.0	6721.8	6425.5	6140.4	6073.9	4658.1
50°	5076.3	5114.7	5253.5	5589.1	6005.4	6458.3	7127.8	7188.7	7063.1	6965.5	5333.2
52.5°	4149.9	4224.0	4535.2	5045.3	5643.5	6417.0	7315.3	7800.0	7928.5	7827.2	5817.0
55°	3256.3	3325.7	3603.3	4250.2	5048.1	6102.9	7323.7	8011.0	8291.3	8197.6	6144.2
57.5°	2425.6	2489.4	2741.6	3360.4	4238.0	5485.1	7123.1	8128.2	8721.7	8661.7	6660.8
60°	1585.5	1648.3	1876.2	2417.2	3287.3	4584.9	6628.9	8103.8	9307.7	9302.1	7295.6
62.5°	879.5	929.2	1094.2	1516.1	2294.3	3550.7	5852.6	7859.1	9875.0	9910.6	7818.8
65°	450.1	481.9	582.3	833.5	1388.6	2517.5	4831.5	7298.4	10137.5	10227.5	7956.6
67.5°	294.4	304.7	329.1	433.2	743.5	1583.6	3636.1	6399.2	9768.1	9873.1	7494.4
70°	239.1	247.5	261.6	288.8	383.5	841.0	2388.1	5110.9	8161.9	8233.2	5967.9
72.5°	175.3	186.6	213.8	231.6	276.6	461.3	1242.3	3354.8	5605.1	5730.7	3750.5
75°	129.4	136.0	158.5	182.8	226.0	291.6	475.4	1763.7	2894.4	2821.3	1575.2
77.5°	77.8	82.5	101.3	117.2	161.3	181.9	166.0	651.6	880.4	827.9	380.7
80°	38.4	43.1	66.6	88.1	103.1	73.1	69.4	181.9	196.0	196.0	95.6
82.5°	13.1	16.9	35.6	58.1	50.6	28.1	32.8	46.9	52.5	55.3	28.1
85°	0.0	0.0	8.4	16.9	7.5	3.8	8.4	10.3	13.1	14.1	9.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.8	3.8
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°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	958.2	914.2	847.6	787.6	741.7	698.5	665.7	639.5	634.8	619.8	621.6
5°	1001.4	921.7	798.8	704.1	637.6	592.6	555.1	526.9	514.8	502.6	493.2
7.5°	1067.9	952.6	780.1	664.8	586.9	517.6	459.4	412.6	390.0	376.0	366.6
10°	1149.5	995.7	781.0	641.3	526.0	420.1	340.4	288.8	264.4	256.9	256.0
12.5°	1247.0	1050.1	788.5	602.9	437.9	312.2	252.2	228.8	221.3	214.7	214.7
15°	1350.2	1111.1	788.5	532.6	333.8	243.8	218.5	203.5	194.1	190.3	188.5
17.5°	1458.9	1168.3	769.8	436.0	256.0	214.7	194.1	180.0	172.5	166.9	165.0
20°	1575.2	1222.7	722.9	333.8	219.4	192.2	172.5	158.5	151.0	145.3	145.3
22.5°	1693.3	1273.3	647.0	256.9	194.1	170.6	151.9	138.8	131.3	125.6	125.6
25°	1803.0	1307.0	549.4	211.9	175.3	151.9	135.0	121.9	113.5	109.7	107.8
27.5°	1905.2	1328.6	441.6	186.6	157.5	136.0	118.1	106.0	99.4	96.6	94.7
30°	2011.2	1334.2	337.5	169.7	142.5	120.0	103.1	93.8	88.1	84.4	84.4
32.5°	2114.3	1327.7	257.8	155.6	129.4	106.0	91.9	83.4	78.8	75.9	75.0
35°	2219.3	1297.7	209.1	143.5	116.3	92.8	81.6	75.0	72.2	68.4	68.4
37.5°	2333.7	1257.3	181.9	131.3	103.1	83.4	73.1	68.4	64.7	61.9	60.9
40°	2476.2	1210.5	166.9	121.0	90.9	75.0	65.6	60.9	58.1	55.3	54.4
42.5°	2645.0	1164.5	159.4	109.7	81.6	66.6	59.1	53.4	50.6	46.9	45.9
45°	2884.1	1154.2	151.0	97.5	73.1	60.0	51.6	45.9	42.2	39.4	38.4
47.5°	3268.5	1183.3	136.9	84.4	64.7	52.5	44.1	39.4	34.7	31.9	30.0
50°	3650.1	1175.8	122.8	73.1	57.2	45.0	37.5	32.8	28.1	25.3	24.4
52.5°	3858.3	1140.1	109.7	64.7	49.7	38.4	31.9	26.3	23.4	20.6	19.7
55°	4046.7	1126.1	96.6	56.3	42.2	33.8	26.3	21.6	19.7	16.9	15.9
57.5°	4416.2	1158.9	85.3	48.8	36.6	29.1	22.5	17.8	15.9	13.1	12.2
60°	4802.5	1162.6	73.1	42.2	31.9	24.4	17.8	14.1	12.2	9.4	8.4
62.5°	5004.1	1067.9	60.0	35.6	26.3	20.6	15.0	11.3	9.4	5.6	5.6
65°	4835.3	863.5	50.6	29.1	20.6	15.9	11.3	8.4	5.6	2.8	0.9
67.5°	4279.3	614.1	42.2	23.4	15.0	11.3	8.4	5.6	0.9	0.0	0.0
70°	3133.5	350.7	32.8	16.9	11.3	7.5	5.6	2.8	0.0	0.0	0.0
72.5°	1925.9	187.5	24.4	11.3	8.4	5.6	4.7	1.9	0.0	0.0	0.0
75°	730.4	90.0	15.0	7.5	6.6	4.7	2.8	0.9	0.0	0.0	0.0
77.5°	197.8	44.1	8.4	5.6	4.7	2.8	1.9	0.0	0.0	0.0	0.0
80°	51.6	20.6	5.6	3.8	2.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	9.4	2.8	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.8	1.9	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.9	0.9	0.9	0.9	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)