

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: P636899

Luminaire Tested: GWS-SA4B-760-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636899  
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-SA4B-760-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

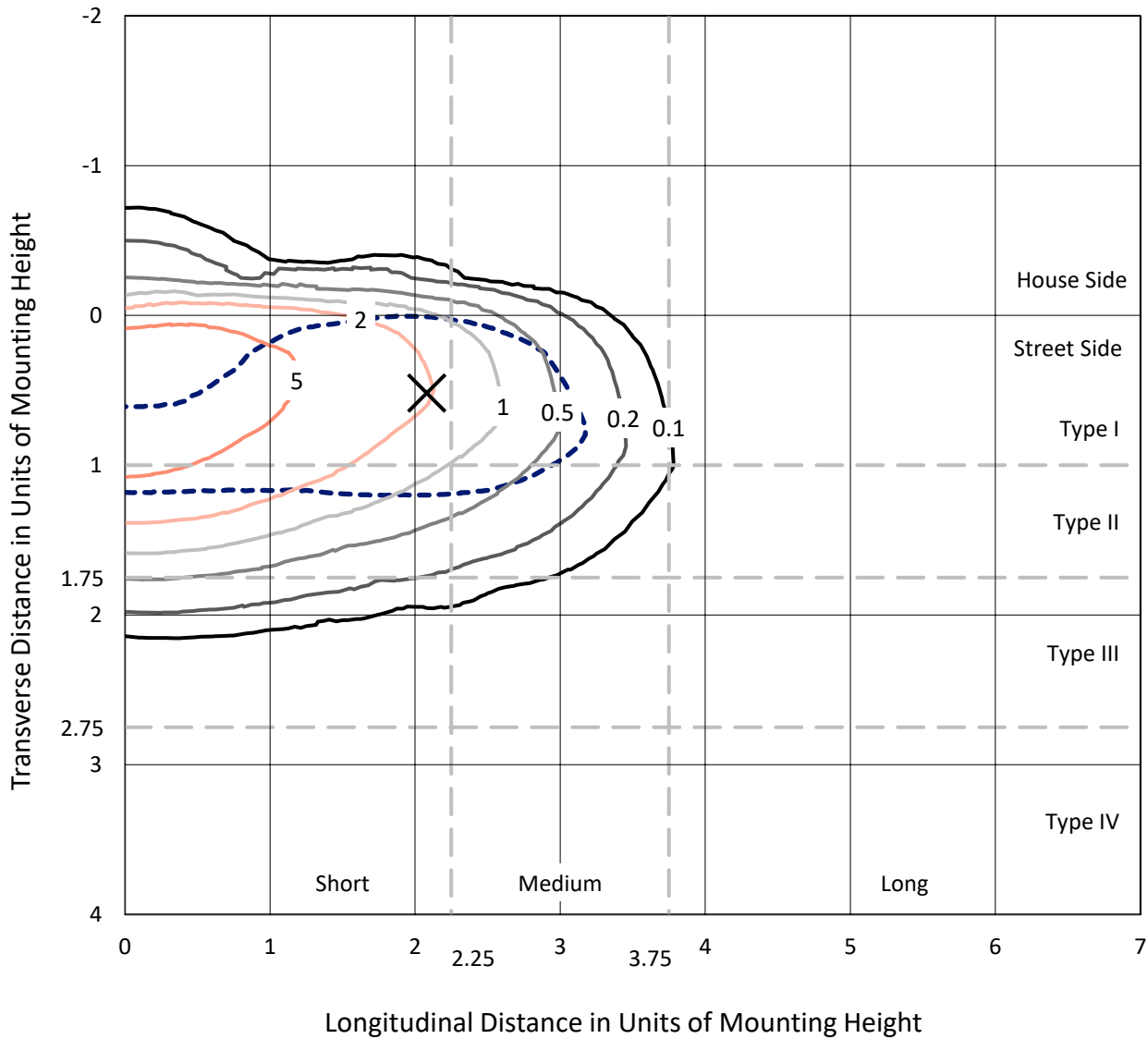
Lumens per Lamp: N/A  
Luminaire Lumens: 11777.1 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

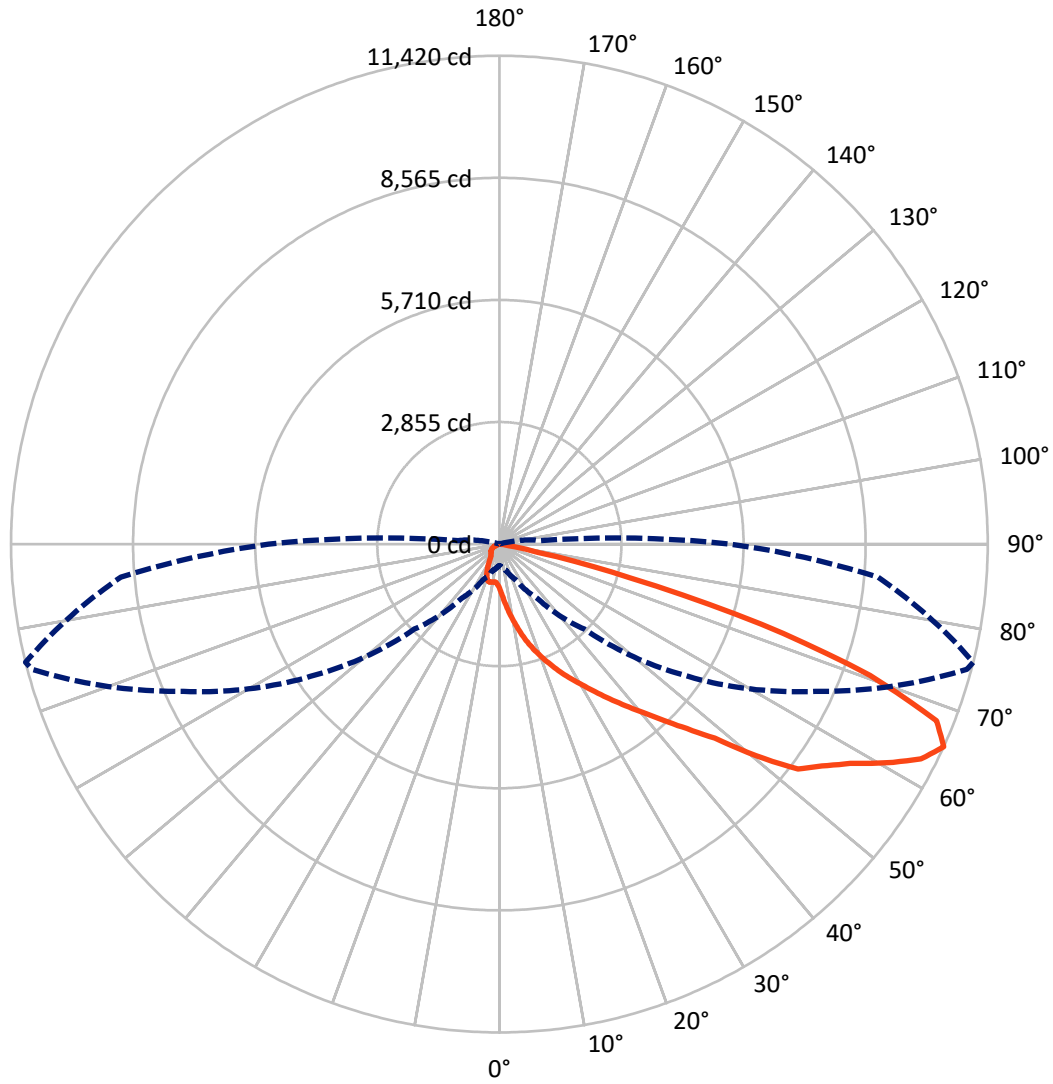
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	651.2	0.0	651.2
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	11125.9	0.0	11125.9
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	11777.1	0.0	11777.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	1.1
10°-20°	481.3	4.1
20°-30°	982.0	8.3
30°-40°	1746.5	14.8
40°-50°	2581.7	21.9
50°-60°	2955.9	25.1
60°-70°	2255.2	19.1
70°-80°	631.7	5.4
80°-90°	15.9	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°	11777.1	100.0
0°-180°	11777.1	100.0

**Coefficient of Utilization**



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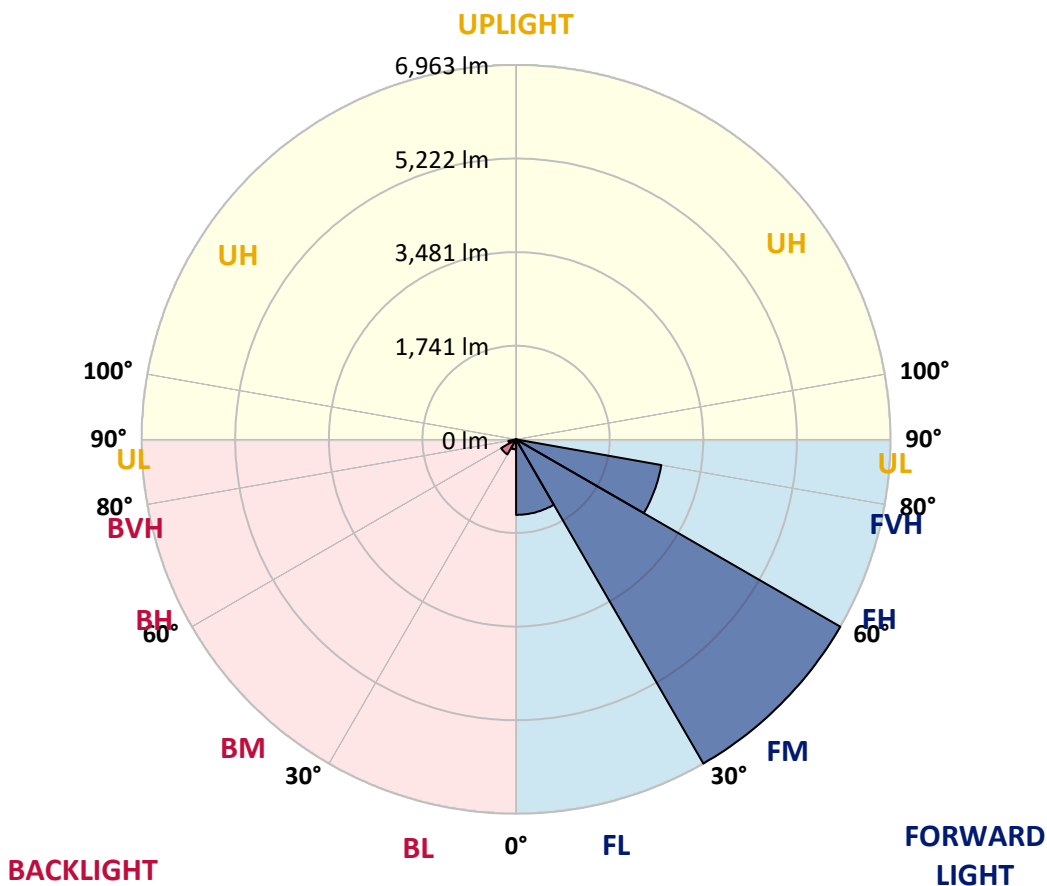
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1404.3	11.9			
FM (30°-60°)	6962.8	59.1			
FH (60°-80°)	2743.8	23.3			G2/5000
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	185.8	1.6	B1/500		
BM (30°-60°)	321.3	2.7	B1/1000		
BH (60°-80°)	143.2	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1607.0	1631.1	1612.2	1580.8	1520.1	1461.5	1386.1	1282.4	1199.7	1189.3	1111.8
5°	2170.2	2168.1	2127.3	2086.5	2022.6	1922.1	1770.3	1577.7	1392.4	1376.7	1202.9
7.5°	2505.2	2508.3	2485.3	2453.9	2391.1	2287.5	2129.4	1897.0	1625.8	1594.4	1327.5
10°	2786.8	2785.8	2769.0	2754.4	2697.8	2628.7	2459.1	2203.7	1877.1	1827.9	1466.7
12.5°	2998.3	3005.6	3014.0	3028.7	3004.6	2936.5	2776.4	2497.9	2131.5	2077.0	1625.8
15°	3165.8	3167.9	3199.3	3255.8	3275.7	3240.1	3094.6	2782.6	2382.7	2335.6	1809.0
17.5°	3216.0	3220.2	3273.6	3377.3	3482.0	3501.8	3391.9	3069.5	2629.8	2579.5	1987.0
20°	3321.8	3331.2	3371.0	3462.1	3594.0	3700.8	3657.8	3359.5	2876.9	2810.9	2169.2
22.5°	3654.7	3659.9	3646.3	3657.8	3725.9	3849.4	3875.6	3640.0	3130.2	3060.1	2366.0
25°	4227.3	4229.4	4134.2	4044.1	3992.8	4015.9	4073.5	3898.6	3381.5	3312.4	2549.2
27.5°	4822.0	4829.3	4715.2	4562.3	4379.1	4274.5	4257.7	4135.2	3634.8	3558.4	2730.3
30°	5382.1	5382.1	5261.7	5075.3	4830.4	4626.2	4505.8	4373.9	3905.9	3822.2	2915.6
32.5°	5885.6	5881.4	5727.5	5525.5	5283.7	5059.6	4806.3	4623.1	4207.5	4114.3	3129.2
35°	6301.2	6290.8	6115.9	5922.3	5663.7	5497.2	5214.6	4891.1	4534.1	4440.9	3349.0
37.5°	6615.3	6603.8	6443.6	6238.4	5998.7	5890.9	5654.3	5212.5	4878.5	4793.7	3592.9
40°	6785.9	6762.9	6651.9	6499.1	6298.1	6203.9	6105.5	5611.3	5283.7	5177.9	3880.8
42.5°	6836.2	6809.0	6735.7	6664.5	6543.1	6468.7	6574.5	6061.5	5728.6	5637.5	4209.5
45°	6687.5	6671.8	6665.6	6716.8	6738.8	6759.8	7020.4	6559.8	6219.6	6150.5	4623.1
47.5°	6329.5	6325.3	6380.8	6594.4	6826.8	7047.7	7505.2	7174.3	6856.1	6781.8	5201.0
50°	5667.9	5710.8	5865.7	6240.5	6705.3	7211.0	7958.5	8026.5	7886.2	7777.3	5954.7
52.5°	4633.5	4716.2	5063.8	5633.3	6301.2	7164.9	8167.8	8709.1	8852.5	8739.4	6494.9
55°	3635.9	3713.3	4023.2	4745.6	5636.5	6814.2	8177.3	8944.6	9257.7	9153.0	6860.3
57.5°	2708.3	2779.5	3061.1	3752.1	4731.9	6124.3	7953.2	9075.5	9738.2	9671.2	7437.1
60°	1770.3	1840.4	2094.8	2698.9	3670.4	5119.3	7401.5	9048.3	10392.5	10386.2	8145.9
62.5°	982.0	1037.5	1221.7	1692.8	2561.7	3964.6	6534.7	8775.0	11025.9	11065.6	8730.0
65°	502.5	538.1	650.1	930.7	1550.4	2810.9	5394.6	8149.0	11319.0	11419.5	8883.9
67.5°	328.7	340.2	367.5	483.7	830.2	1768.2	4059.8	7145.0	10906.5	11023.8	8367.8
70°	267.0	276.4	292.1	322.4	428.2	939.1	2666.4	5706.6	9113.2	9192.7	6663.5
72.5°	195.8	208.3	238.7	258.6	308.8	515.1	1387.1	3745.8	6258.3	6398.6	4187.6
75°	144.5	151.8	176.9	204.1	252.3	325.6	530.8	1969.2	3231.8	3150.1	1758.8
77.5°	86.9	92.1	113.1	130.9	180.1	203.1	185.3	727.6	983.0	924.4	425.0
80°	42.9	48.2	74.3	98.4	115.2	81.7	77.5	203.1	218.8	218.8	106.8
82.5°	14.7	18.8	39.8	64.9	56.5	31.4	36.6	52.3	58.6	61.8	31.4
85°	0.0	0.0	9.4	18.8	8.4	4.2	9.4	11.5	14.7	15.7	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.2	4.2
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°	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1069.9	1020.7	946.4	879.4	828.1	779.9	743.3	714.0	708.7	692.0	694.1
5°	1118.1	1029.1	892.0	786.2	711.9	661.6	619.8	588.4	574.7	561.1	550.7
7.5°	1192.4	1063.6	871.0	742.2	655.4	577.9	513.0	460.6	435.5	419.8	409.3
10°	1283.5	1111.8	872.1	716.1	587.3	469.0	380.0	322.4	295.2	286.8	285.8
12.5°	1392.4	1172.5	880.4	673.2	488.9	348.6	281.6	255.4	247.1	239.7	239.7
15°	1507.5	1240.6	880.4	594.6	372.7	272.2	243.9	227.2	216.7	212.5	210.4
17.5°	1629.0	1304.4	859.5	486.8	285.8	239.7	216.7	201.0	192.6	186.3	184.3
20°	1758.8	1365.1	807.2	372.7	245.0	214.6	192.6	176.9	168.5	162.3	162.3
22.5°	1890.7	1421.7	722.4	286.8	216.7	190.5	169.6	154.9	146.6	140.3	140.3
25°	2013.2	1459.4	613.5	236.6	195.8	169.6	150.8	136.1	126.7	122.5	120.4
27.5°	2127.3	1483.4	493.1	208.3	175.9	151.8	131.9	118.3	111.0	107.8	105.7
30°	2245.6	1489.7	376.9	189.5	159.1	134.0	115.2	104.7	98.4	94.2	94.2
32.5°	2360.7	1482.4	287.9	173.8	144.5	118.3	102.6	93.2	87.9	84.8	83.8
35°	2478.0	1448.9	233.5	160.2	129.8	103.6	91.1	83.8	80.6	76.4	76.4
37.5°	2605.7	1403.9	203.1	146.6	115.2	93.2	81.7	76.4	72.2	69.1	68.0
40°	2764.8	1351.5	186.3	135.0	101.5	83.8	73.3	68.0	64.9	61.8	60.7
42.5°	2953.3	1300.2	178.0	122.5	91.1	74.3	66.0	59.7	56.5	52.3	51.3
45°	3220.2	1288.7	168.5	108.9	81.7	67.0	57.6	51.3	47.1	44.0	42.9
47.5°	3649.5	1321.2	152.8	94.2	72.2	58.6	49.2	44.0	38.7	35.6	33.5
50°	4075.5	1312.8	137.1	81.7	63.9	50.3	41.9	36.6	31.4	28.3	27.2
52.5°	4308.0	1273.0	122.5	72.2	55.5	42.9	35.6	29.3	26.2	23.0	22.0
55°	4518.4	1257.3	107.8	62.8	47.1	37.7	29.3	24.1	22.0	18.8	17.8
57.5°	4930.9	1294.0	95.3	54.4	40.8	32.5	25.1	19.9	17.8	14.7	13.6
60°	5362.2	1298.1	81.7	47.1	35.6	27.2	19.9	15.7	13.6	10.5	9.4
62.5°	5587.3	1192.4	67.0	39.8	29.3	23.0	16.8	12.6	10.5	6.3	6.3
65°	5398.8	964.2	56.5	32.5	23.0	17.8	12.6	9.4	6.3	3.1	1.0
67.5°	4778.0	685.7	47.1	26.2	16.8	12.6	9.4	6.3	1.0	0.0	0.0
70°	3498.7	391.5	36.6	18.8	12.6	8.4	6.3	3.1	0.0	0.0	0.0
72.5°	2150.3	209.4	27.2	12.6	9.4	6.3	5.2	2.1	0.0	0.0	0.0
75°	815.5	100.5	16.8	8.4	7.3	5.2	3.1	1.0	0.0	0.0	0.0
77.5°	220.9	49.2	9.4	6.3	5.2	3.1	2.1	0.0	0.0	0.0	0.0
80°	57.6	23.0	6.3	4.2	3.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	10.5	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
85°	8.4	4.2	2.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.0	1.0	1.0	1.0	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)