

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: P633322

Luminaire Tested: GWS-SA2E-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-740-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

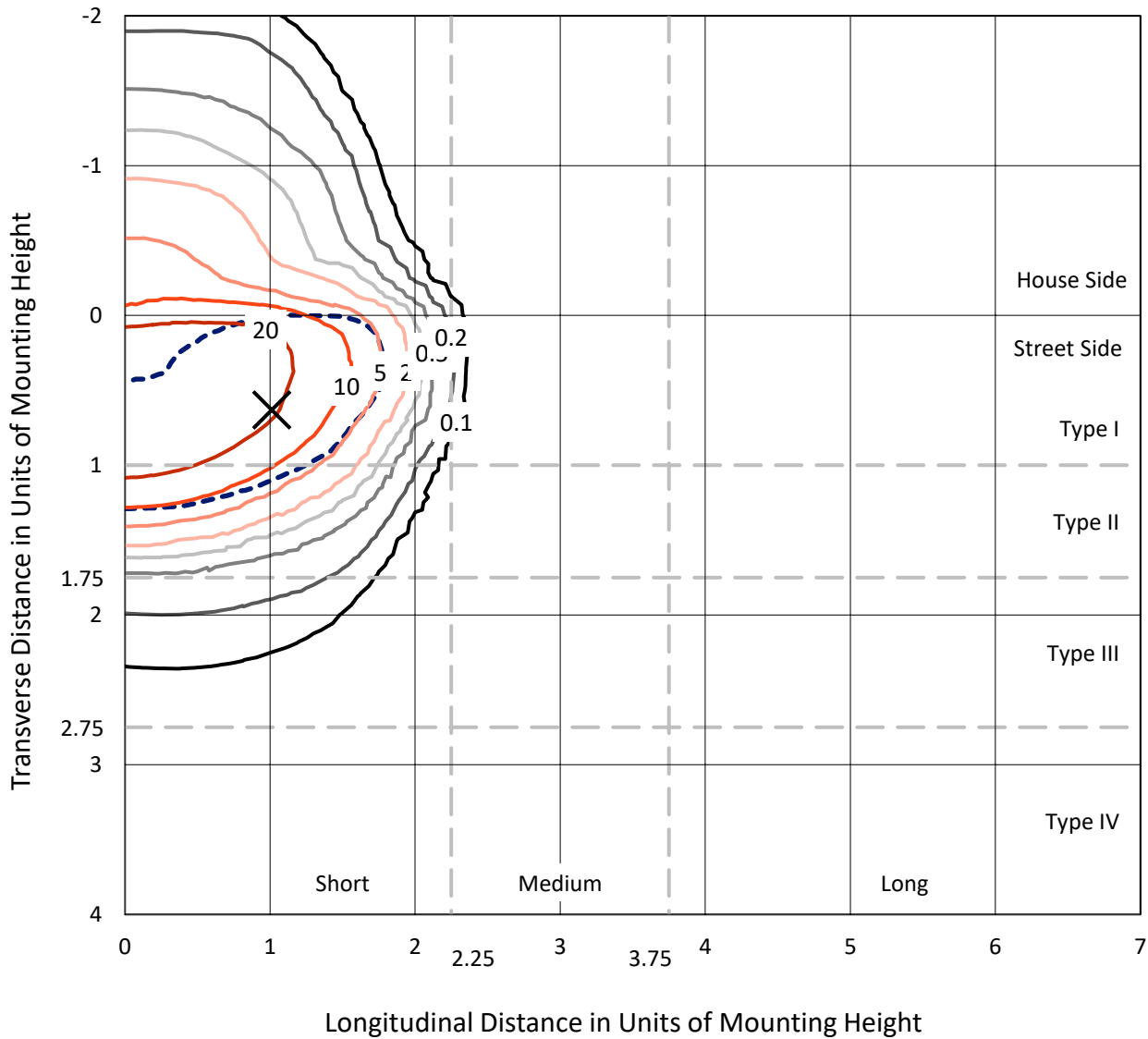
Lumens per Lamp: N/A  
Luminaire Lumens: 9781.1 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

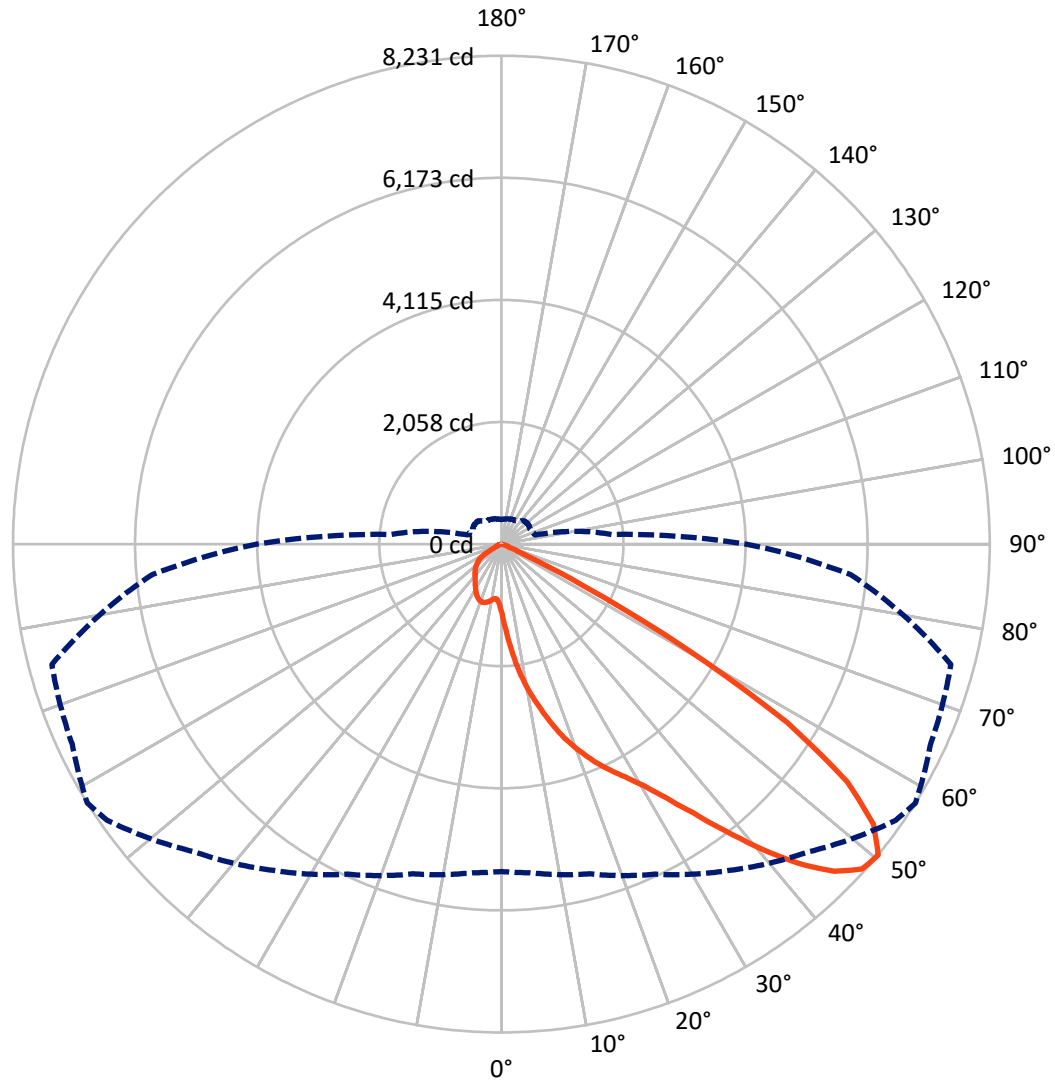
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1370.0	0.0	1370.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8411.1	0.0	8411.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	9781.1	0.0	9781.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	1.5
10°-20°	573.0	5.9
20°-30°	1159.4	11.9
30°-40°	2051.2	21.0
40°-50°	2990.2	30.6
50°-60°	2396.7	24.5
60°-70°	431.8	4.4
70°-80°	34.0	0.3
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°	9781.1	100.0
0°-180°	9781.1	100.0

**Coefficient of Utilization**



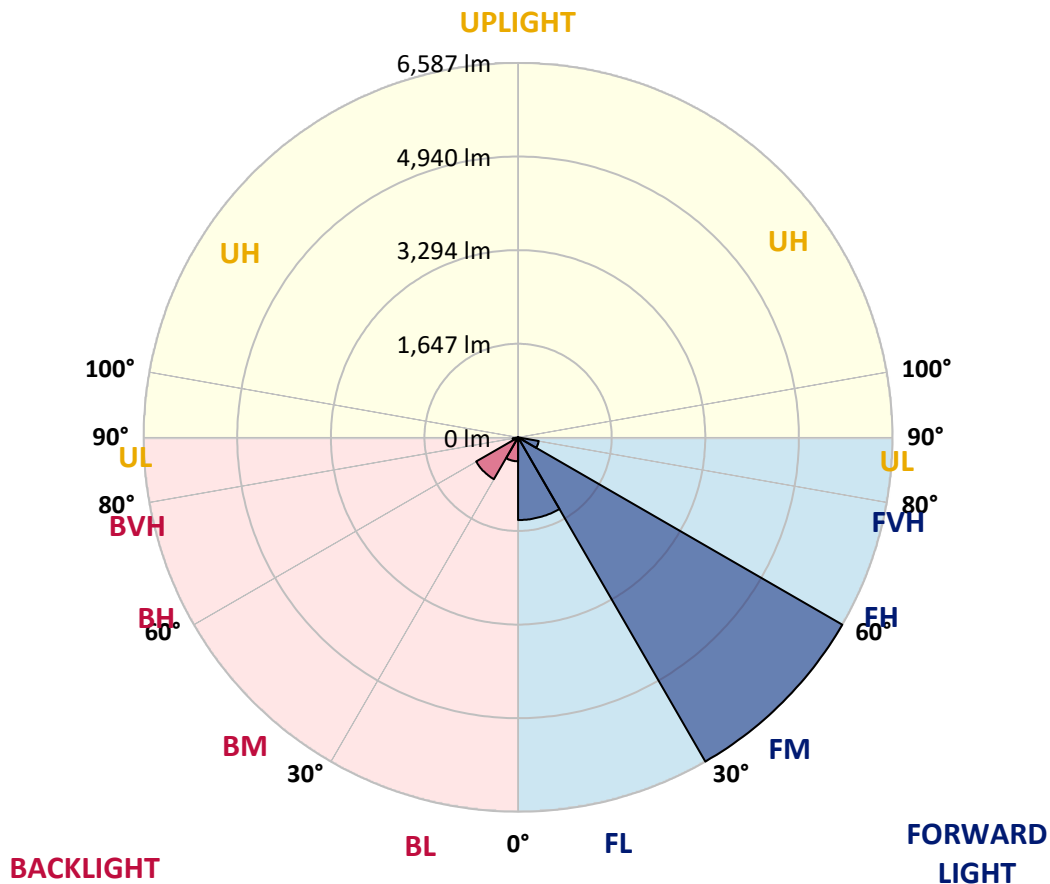
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.4	14.9			
FM (30°-60°)	6587.3	67.3			
FH (60°-80°)	368.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	421.8	4.3	B1/500		
BM (30°-60°)	850.8	8.7	B1/1000		
BH (60°-80°)	97.4	1.0	B0/110		G0/110
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: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3
2.5°	1729.0	1701.8	1686.1	1673.5	1618.1	1530.2	1472.7	1442.4	1392.2	1307.4	1234.2
5°	2256.1	2236.3	2199.7	2174.5	2103.4	1979.0	1850.3	1799.0	1685.0	1493.6	1322.1
7.5°	2605.5	2590.8	2577.2	2543.8	2476.8	2363.9	2221.6	2168.3	1992.6	1720.6	1439.2
10°	2874.3	2862.8	2847.1	2846.1	2793.8	2692.3	2553.2	2497.7	2307.4	1967.4	1577.3
12.5°	3110.7	3101.3	3098.1	3127.4	3093.9	3018.6	2868.0	2799.0	2597.1	2219.5	1730.0
15°	3272.8	3270.7	3284.3	3341.8	3360.7	3326.1	3199.6	3125.3	2893.1	2472.6	1898.4
17.5°	3347.1	3353.3	3379.5	3478.9	3562.5	3591.8	3494.5	3431.8	3187.0	2728.9	2078.3
20°	3473.6	3471.5	3487.2	3581.4	3683.9	3788.5	3759.2	3705.8	3484.1	2999.8	2278.1
22.5°	3830.3	3800.0	3766.5	3781.1	3817.7	3940.1	3994.5	3967.3	3790.6	3278.0	2484.2
25°	4378.4	4347.0	4239.3	4134.7	4065.6	4121.1	4195.3	4208.9	4094.9	3563.6	2699.6
27.5°	4959.9	4931.7	4810.4	4653.5	4455.8	4359.6	4415.0	4442.2	4394.1	3903.5	2928.7
30°	5504.9	5467.2	5334.4	5139.8	4910.8	4763.3	4700.5	4719.4	4747.6	4306.2	3197.5
32.5°	5977.7	5949.4	5790.4	5585.4	5364.7	5211.0	5064.5	5095.9	5164.9	4798.9	3541.6
35°	6378.3	6363.6	6195.2	5991.3	5758.0	5679.6	5554.0	5560.3	5629.3	5394.0	3961.0
37.5°	6726.6	6701.5	6548.7	6359.4	6174.3	6161.7	6127.2	6130.4	6165.9	6087.5	4443.2
40°	6946.2	6923.2	6814.4	6697.3	6565.5	6567.6	6746.4	6760.0	6719.2	6768.4	4952.6
42.5°	7028.8	7012.1	6953.5	6954.6	6941.0	7002.7	7338.4	7363.5	7217.1	7302.9	5387.7
45°	6885.5	6878.2	6882.4	7033.0	7196.2	7386.6	7822.7	7866.7	7659.6	7657.5	5727.7
47.5°	6423.2	6408.6	6531.0	6787.2	7164.8	7535.1	8115.6	8183.6	7969.2	7860.4	5941.0
50°	5517.4	5559.3	5752.8	6137.7	6711.9	7331.1	8112.5	8230.6	7980.7	7842.6	5905.5
52.5°	3996.6	3988.2	4411.9	4941.1	5639.8	6678.4	7681.5	7854.1	7701.4	7667.9	5826.0
55°	2174.5	2250.9	2536.4	3237.2	4109.6	5443.2	6697.3	7073.8	7250.6	7604.1	5969.3
57.5°	799.1	832.6	1011.4	1507.2	2175.6	3384.7	5115.8	5683.7	6229.7	7426.3	5945.2
60°	322.2	328.4	399.6	554.4	914.2	1722.7	3068.8	3573.0	4087.6	5684.8	4562.5
62.5°	234.3	242.7	270.9	324.2	462.3	753.1	1323.1	1538.6	1681.9	2815.7	2247.8
65°	189.3	195.6	218.6	242.7	305.4	404.8	426.8	411.1	409.0	728.0	515.7
67.5°	156.9	163.2	179.9	196.6	219.7	201.9	146.4	153.8	125.5	124.5	101.5
70°	115.1	122.4	139.1	156.9	131.8	54.4	84.7	125.5	95.2	79.5	77.4
72.5°	86.8	92.0	107.7	102.5	38.7	20.9	56.5	91.0	73.2	58.6	57.5
75°	64.8	68.0	54.4	16.7	4.2	5.2	20.9	37.7	40.8	33.5	33.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	4.2	5.2	6.3
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°	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3	1168.3
2.5°	1192.4	1148.5	1085.7	1033.4	993.7	955.0	925.7	896.4	895.3	880.7	877.6
5°	1242.6	1163.1	1048.1	965.4	915.2	884.9	864.0	853.5	848.3	843.0	841.0
7.5°	1314.8	1200.8	1041.8	953.9	912.1	892.2	877.6	871.3	868.1	864.0	862.9
10°	1403.7	1255.2	1064.8	975.9	939.3	920.4	904.8	895.3	890.1	882.8	880.7
12.5°	1510.4	1322.1	1101.4	1012.5	973.8	948.7	927.8	914.2	906.8	897.4	895.3
15°	1625.4	1394.3	1142.2	1046.0	999.9	967.5	941.4	920.4	906.8	895.3	892.2
17.5°	1744.7	1467.5	1178.8	1069.0	1012.5	973.8	936.1	907.9	891.2	876.5	872.3
20°	1878.5	1542.8	1202.9	1073.2	1008.3	957.1	913.1	877.6	860.8	841.0	836.8
22.5°	2018.7	1612.9	1213.3	1063.7	985.3	925.7	878.6	842.0	817.9	797.0	790.7
25°	2154.7	1675.6	1208.1	1037.6	950.8	881.7	833.6	796.0	769.8	748.9	743.7
27.5°	2299.0	1727.9	1189.3	998.9	903.7	833.6	787.6	755.2	731.1	708.1	702.9
30°	2461.1	1776.0	1158.9	951.8	848.3	784.5	748.9	726.9	700.8	676.7	669.4
32.5°	2656.7	1818.9	1115.0	895.3	799.1	741.6	721.7	705.0	674.6	649.5	644.3
35°	2880.6	1854.5	1059.6	836.8	751.0	714.4	710.2	688.2	648.5	619.2	612.9
37.5°	3140.0	1889.0	993.7	779.2	715.4	701.8	702.9	665.2	617.1	581.6	577.4
40°	3419.2	1923.5	920.4	729.0	683.0	694.5	685.1	631.8	553.3	518.8	514.6
42.5°	3710.0	1961.2	846.2	682.0	655.8	666.3	652.7	564.8	508.3	490.6	488.5
45°	3972.6	2006.1	765.6	634.9	628.6	625.5	602.5	511.5	487.4	474.9	473.8
47.5°	4161.9	1998.8	679.9	589.9	599.3	588.9	518.8	486.4	466.5	449.8	445.6
50°	4127.4	1871.2	591.0	539.7	561.7	552.3	466.5	457.1	439.3	421.5	415.2
52.5°	4039.5	1697.6	513.6	486.4	520.9	498.9	430.9	421.5	405.8	382.8	375.5
55°	4086.6	1534.4	452.9	443.5	479.0	413.2	391.2	376.5	359.8	334.7	331.6
57.5°	3934.9	1252.0	364.0	370.3	423.6	352.5	343.1	320.1	291.8	275.1	273.0
60°	2723.7	672.6	228.0	235.3	306.5	296.0	307.5	286.6	252.1	236.4	233.2
62.5°	1251.0	269.9	124.5	119.2	161.1	200.8	263.6	261.5	218.6	193.5	191.4
65°	303.3	123.4	88.9	83.7	91.0	120.3	171.5	206.1	176.8	147.5	144.3
67.5°	98.3	100.4	81.6	76.4	80.5	90.0	102.5	114.0	113.0	103.5	101.5
70°	78.4	91.0	75.3	69.0	69.0	72.2	69.0	55.4	48.1	52.3	54.4
72.5°	58.6	69.0	59.6	53.3	51.3	50.2	42.9	31.4	22.0	19.9	18.8
75°	34.5	38.7	36.6	31.4	29.3	26.1	20.9	13.6	7.3	5.2	3.1
77.5°	6.3	7.3	8.4	6.3	5.2	4.2	3.1	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.0	1.0	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

(END OF REPORT)