

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: P633432

Luminaire Tested: GWS-SA2E-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633432  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

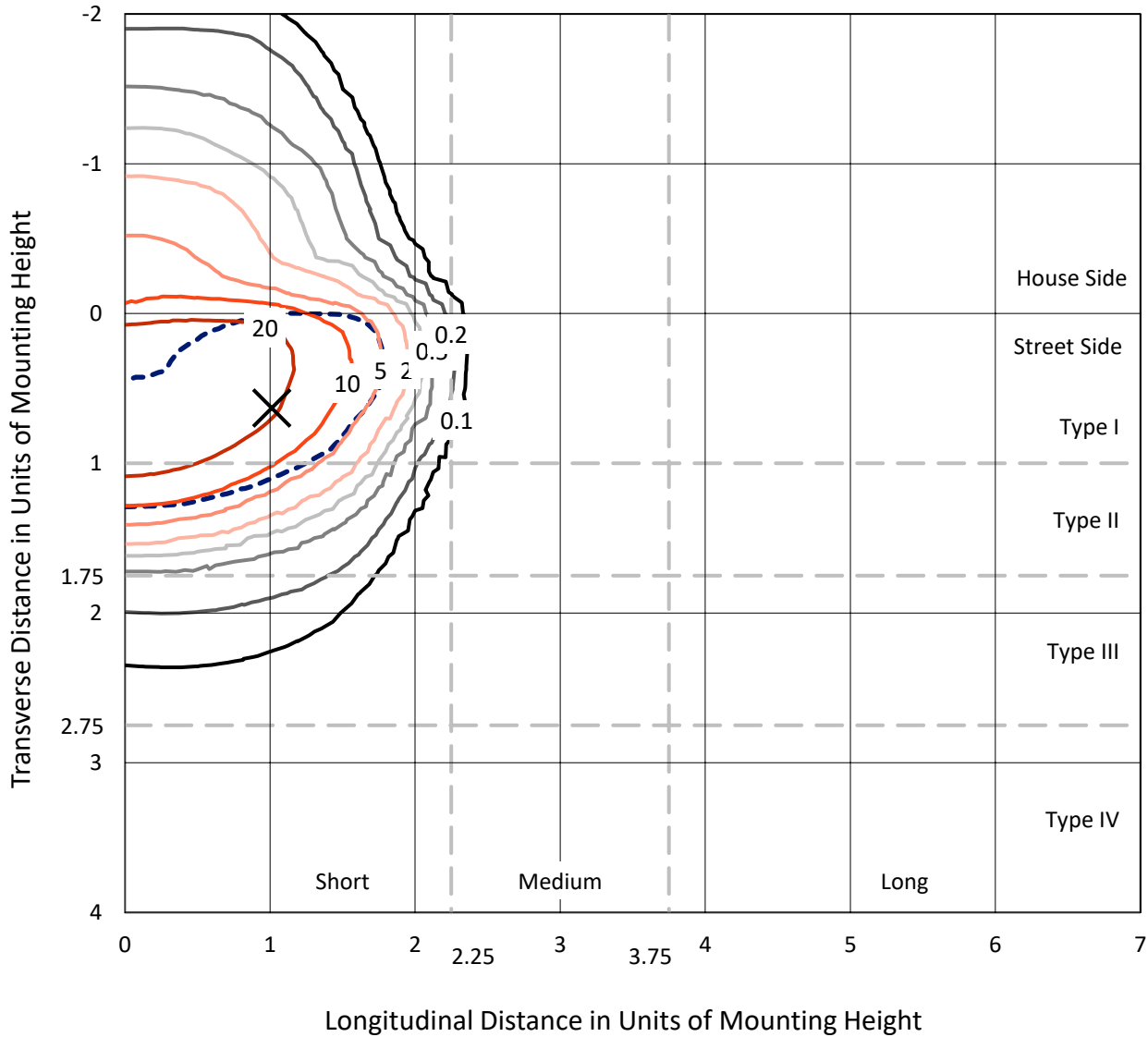
Lumens per Lamp: N/A  
Luminaire Lumens: 9868.1 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

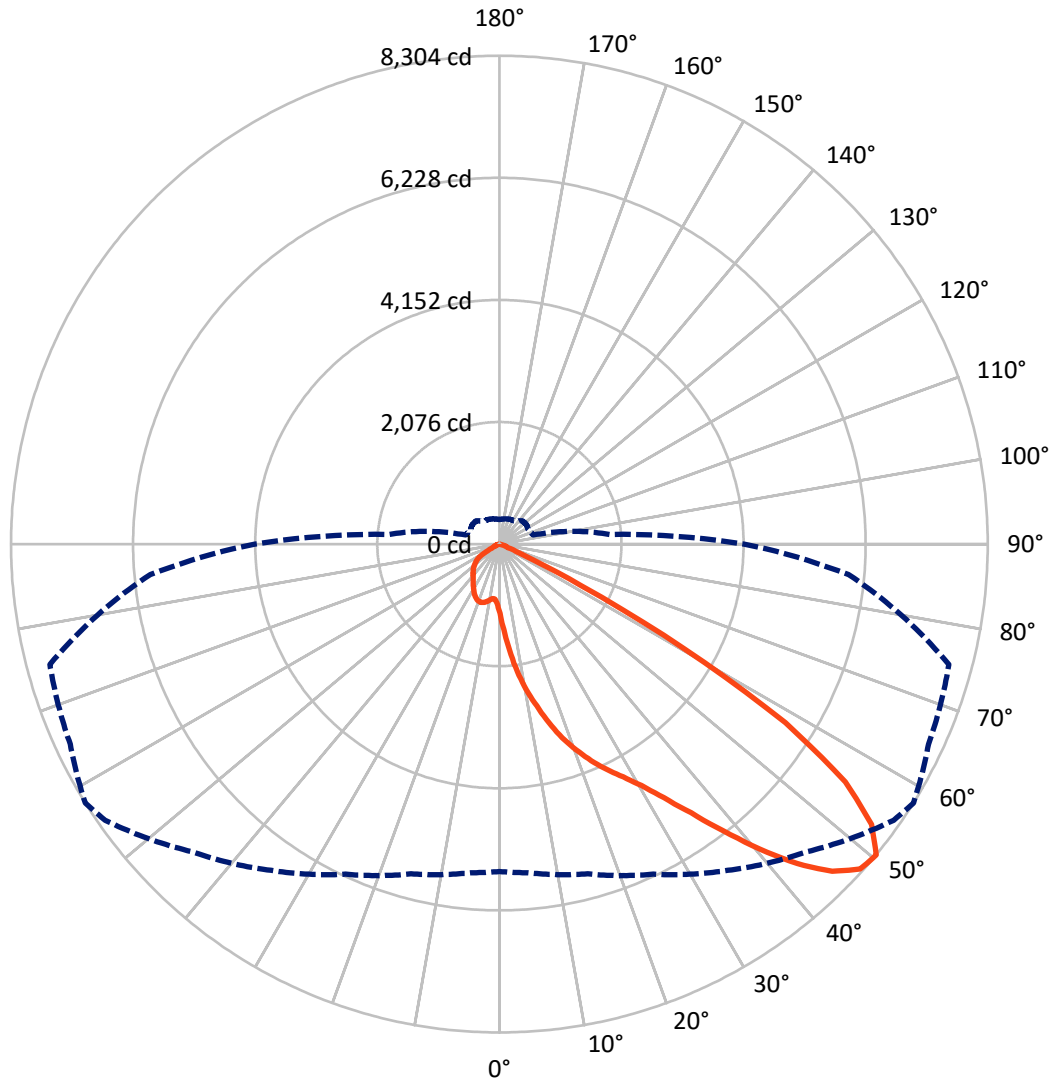
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.2 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	1382.1	0.0	1382.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8485.9	0.0	8485.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	9868.1	0.0	9868.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.0	1.5
10°-20°	578.1	5.9
20°-30°	1169.8	11.9
30°-40°	2069.4	21.0
40°-50°	3016.8	30.6
50°-60°	2418.0	24.5
60°-70°	435.6	4.4
70°-80°	34.3	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°	9868.1	100.0
0°-180°	9868.1	100.0

**Coefficient of Utilization**



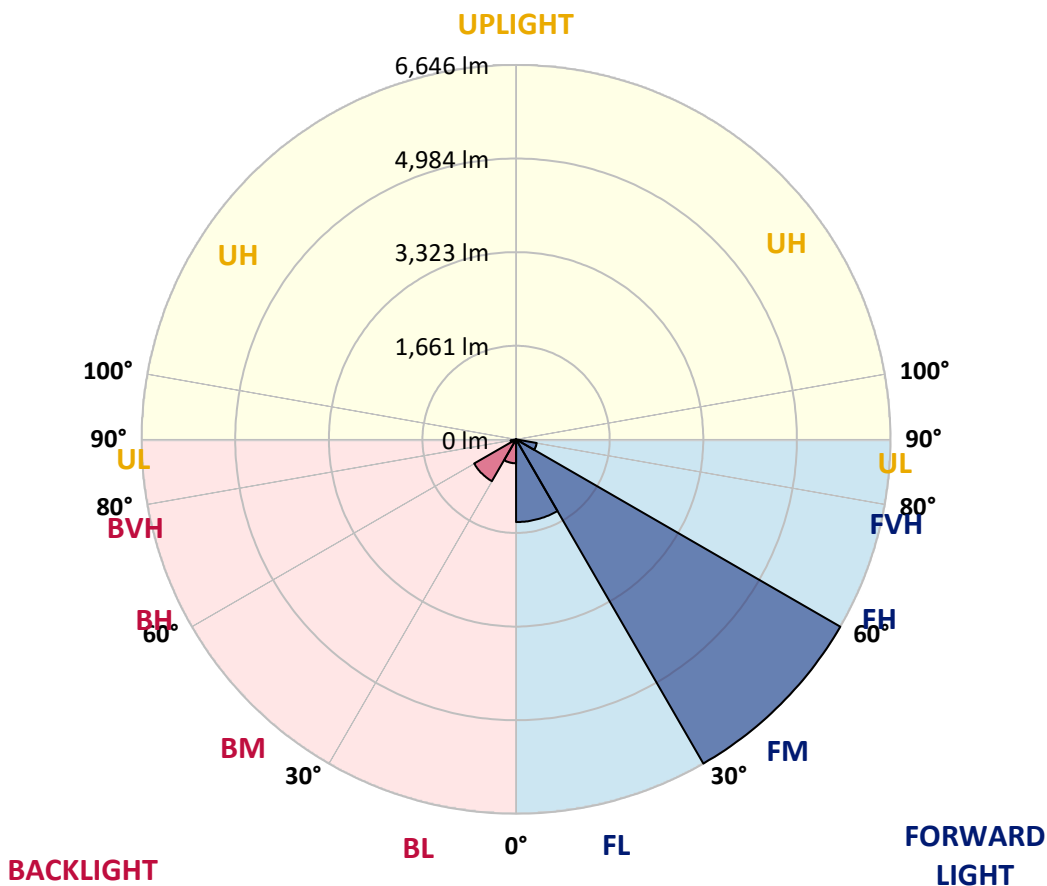
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.3	14.9			
FM (30°-60°)	6645.9	67.3			
FH (60°-80°)	371.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	425.5	4.3	B1/500		
BM (30°-60°)	858.4	8.7	B1/1000		
BH (60°-80°)	98.2	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°	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1744.3	1716.9	1701.1	1688.4	1632.5	1543.8	1485.8	1455.2	1404.6	1319.1	1245.2
5°	2276.2	2256.2	2219.2	2193.9	2122.1	1996.6	1866.8	1815.1	1700.0	1506.9	1333.9
7.5°	2628.7	2613.9	2600.2	2566.4	2498.9	2384.9	2241.4	2187.6	2010.3	1735.9	1452.0
10°	2899.9	2888.3	2872.4	2871.4	2818.6	2716.2	2575.9	2520.0	2327.9	1984.9	1591.3
12.5°	3138.3	3128.9	3125.7	3155.2	3121.5	3045.5	2893.5	2823.9	2620.2	2239.3	1745.4
15°	3301.9	3299.8	3313.5	3371.6	3390.6	3355.7	3228.0	3153.1	2918.9	2494.6	1915.3
17.5°	3376.8	3383.2	3409.6	3509.8	3594.2	3623.8	3525.6	3462.3	3215.4	2753.2	2096.8
20°	3504.5	3502.4	3518.2	3613.2	3716.6	3822.2	3792.6	3738.8	3515.1	3026.5	2298.4
22.5°	3864.4	3833.8	3800.0	3814.8	3851.7	3975.2	4030.0	4002.6	3824.3	3307.2	2506.2
25°	4417.3	4385.7	4277.0	4171.5	4101.8	4157.7	4232.7	4246.4	4131.4	3595.3	2723.6
27.5°	5004.1	4975.6	4853.1	4694.9	4495.4	4398.3	4454.3	4481.7	4433.2	3938.2	2954.7
30°	5553.8	5515.9	5381.8	5185.6	4954.5	4805.7	4742.3	4761.3	4789.8	4344.5	3225.9
32.5°	6030.8	6002.3	5841.9	5635.1	5412.4	5257.3	5109.6	5141.2	5210.9	4841.5	3573.1
35°	6435.0	6420.2	6250.3	6044.5	5809.2	5730.1	5603.4	5609.8	5679.4	5442.0	3996.3
37.5°	6786.4	6761.1	6607.0	6416.0	6229.2	6216.5	6181.7	6184.9	6220.8	6141.6	4482.8
40°	7008.0	6984.8	6875.0	6756.8	6623.9	6626.0	6806.4	6820.2	6779.0	6828.6	4996.7
42.5°	7091.4	7074.5	7015.4	7016.4	7002.7	7065.0	7403.7	7429.0	7281.3	7367.8	5435.7
45°	6946.8	6939.4	6943.6	7095.6	7260.2	7452.3	7892.3	7936.6	7727.7	7725.6	5778.6
47.5°	6480.4	6465.6	6589.1	6847.6	7228.5	7602.1	8187.8	8256.4	8040.0	7930.3	5993.9
50°	5566.5	5608.7	5803.9	6192.3	6771.6	7396.3	8184.6	8303.9	8051.6	7912.4	5958.0
52.5°	4032.2	4023.7	4451.1	4985.1	5690.0	6737.8	7749.8	7924.0	7769.9	7736.1	5877.8
55°	2193.9	2270.9	2559.0	3266.0	4146.1	5491.6	6756.8	7136.7	7315.1	7671.8	6022.4
57.5°	806.2	840.0	1020.4	1520.6	2194.9	3414.8	5161.3	5734.3	6285.1	7492.4	5998.1
60°	325.0	331.4	403.1	559.3	922.3	1738.0	3096.1	3604.8	4124.0	5735.3	4603.1
62.5°	236.4	244.8	273.3	327.1	466.4	759.8	1334.9	1552.3	1696.9	2840.8	2267.8
65°	191.0	197.3	220.5	244.8	308.1	408.4	430.5	414.7	412.6	734.5	520.2
67.5°	158.3	164.6	181.5	198.4	221.6	203.7	147.7	155.1	126.6	125.6	102.4
70°	116.1	123.5	140.3	158.3	133.0	54.9	85.5	126.6	96.0	80.2	78.1
72.5°	87.6	92.9	108.7	103.4	39.0	21.1	57.0	91.8	73.9	59.1	58.0
75°	65.4	68.6	54.9	16.9	4.2	5.3	21.1	38.0	41.2	33.8	33.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.2	4.2	5.3	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°	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1203.0	1158.7	1095.4	1042.6	1002.5	963.5	933.9	904.4	903.3	888.5	885.4
5°	1253.7	1173.5	1057.4	974.0	923.4	892.8	871.6	861.1	855.8	850.5	848.4
7.5°	1326.5	1211.4	1051.0	962.4	920.2	900.1	885.4	879.0	875.9	871.6	870.6
10°	1416.2	1266.3	1074.3	984.6	947.6	928.6	912.8	903.3	898.0	890.6	888.5
12.5°	1523.8	1333.9	1111.2	1021.5	982.4	957.1	936.0	922.3	914.9	905.4	903.3
15°	1639.9	1406.7	1152.3	1055.3	1008.8	976.1	949.7	928.6	914.9	903.3	900.1
17.5°	1760.2	1480.5	1189.3	1078.5	1021.5	982.4	944.5	916.0	899.1	884.3	880.1
20°	1895.3	1556.5	1213.6	1082.7	1017.3	965.6	921.2	885.4	868.5	848.4	844.2
22.5°	2036.7	1627.2	1224.1	1073.2	994.1	933.9	886.4	849.5	825.2	804.1	797.8
25°	2173.8	1690.5	1218.8	1046.8	959.2	889.6	841.0	803.1	776.7	755.6	750.3
27.5°	2319.5	1743.3	1199.8	1007.8	911.7	841.0	794.6	761.9	737.6	714.4	709.1
30°	2483.0	1791.8	1169.2	960.3	855.8	791.4	755.6	733.4	707.0	682.8	675.4
32.5°	2680.4	1835.1	1124.9	903.3	806.2	748.2	728.1	711.2	680.6	655.3	650.0
35°	2906.2	1871.0	1069.0	844.2	757.7	720.7	716.5	694.4	654.3	624.7	618.4
37.5°	3167.9	1905.8	1002.5	786.2	721.8	708.1	709.1	671.1	622.6	586.7	582.5
40°	3449.7	1940.6	928.6	735.5	689.1	700.7	691.2	637.4	558.2	523.4	519.2
42.5°	3743.0	1978.6	853.7	688.0	661.6	672.2	658.5	569.8	512.9	494.9	492.8
45°	4007.9	2024.0	772.5	640.5	634.2	631.0	607.8	516.0	491.8	479.1	478.0
47.5°	4198.9	2016.6	685.9	595.2	604.7	594.1	523.4	490.7	470.6	453.8	449.5
50°	4164.1	1887.9	596.2	544.5	566.7	557.2	470.6	461.1	443.2	425.3	418.9
52.5°	4075.4	1712.7	518.1	490.7	525.5	503.4	434.8	425.3	409.4	386.2	378.8
55°	4122.9	1548.1	456.9	447.4	483.3	416.8	394.7	379.9	363.0	337.7	334.5
57.5°	3969.9	1263.1	367.2	373.6	427.4	355.6	346.1	322.9	294.4	277.5	275.4
60°	2747.9	678.5	230.0	237.4	309.2	298.6	310.2	289.1	254.3	238.5	235.3
62.5°	1262.1	272.3	125.6	120.3	162.5	202.6	265.9	263.8	220.5	195.2	193.1
65°	306.0	124.5	89.7	84.4	91.8	121.4	173.1	207.9	178.3	148.8	145.6
67.5°	99.2	101.3	82.3	77.0	81.3	90.8	103.4	115.0	114.0	104.5	102.4
70°	79.1	91.8	76.0	69.6	69.6	72.8	69.6	55.9	48.5	52.8	54.9
72.5°	59.1	69.6	60.1	53.8	51.7	50.7	43.3	31.7	22.2	20.0	19.0
75°	34.8	39.0	36.9	31.7	29.5	26.4	21.1	13.7	7.4	5.3	3.2
77.5°	6.3	7.4	8.4	6.3	5.3	4.2	3.2	1.1	0.0	0.0	0.0
80°	0.0	1.1	1.1	1.1	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)