

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: P630353

Luminaire Tested: GWS-SA1D-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

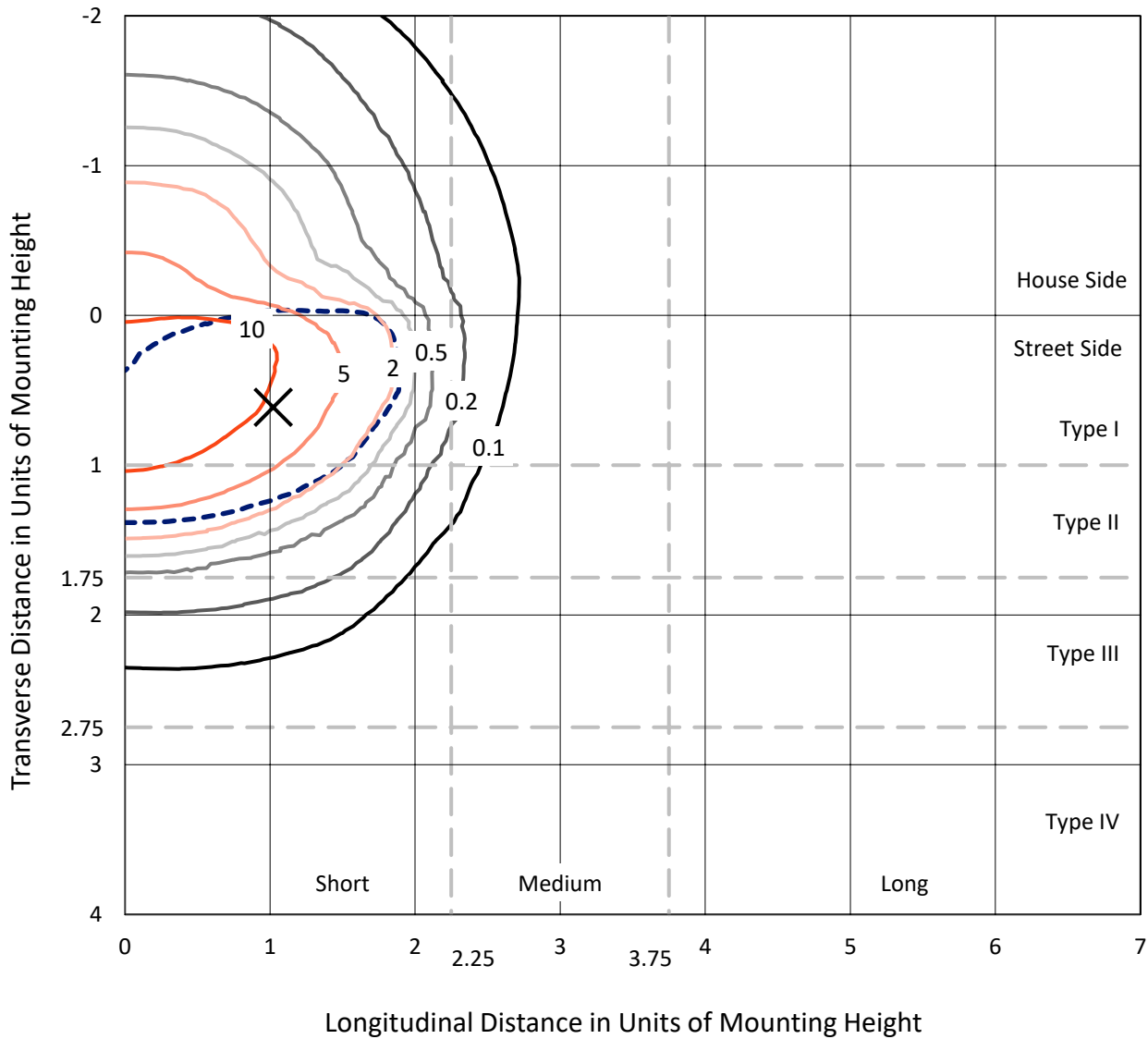
Lumens per Lamp: N/A  
Luminaire Lumens: 5336.7 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

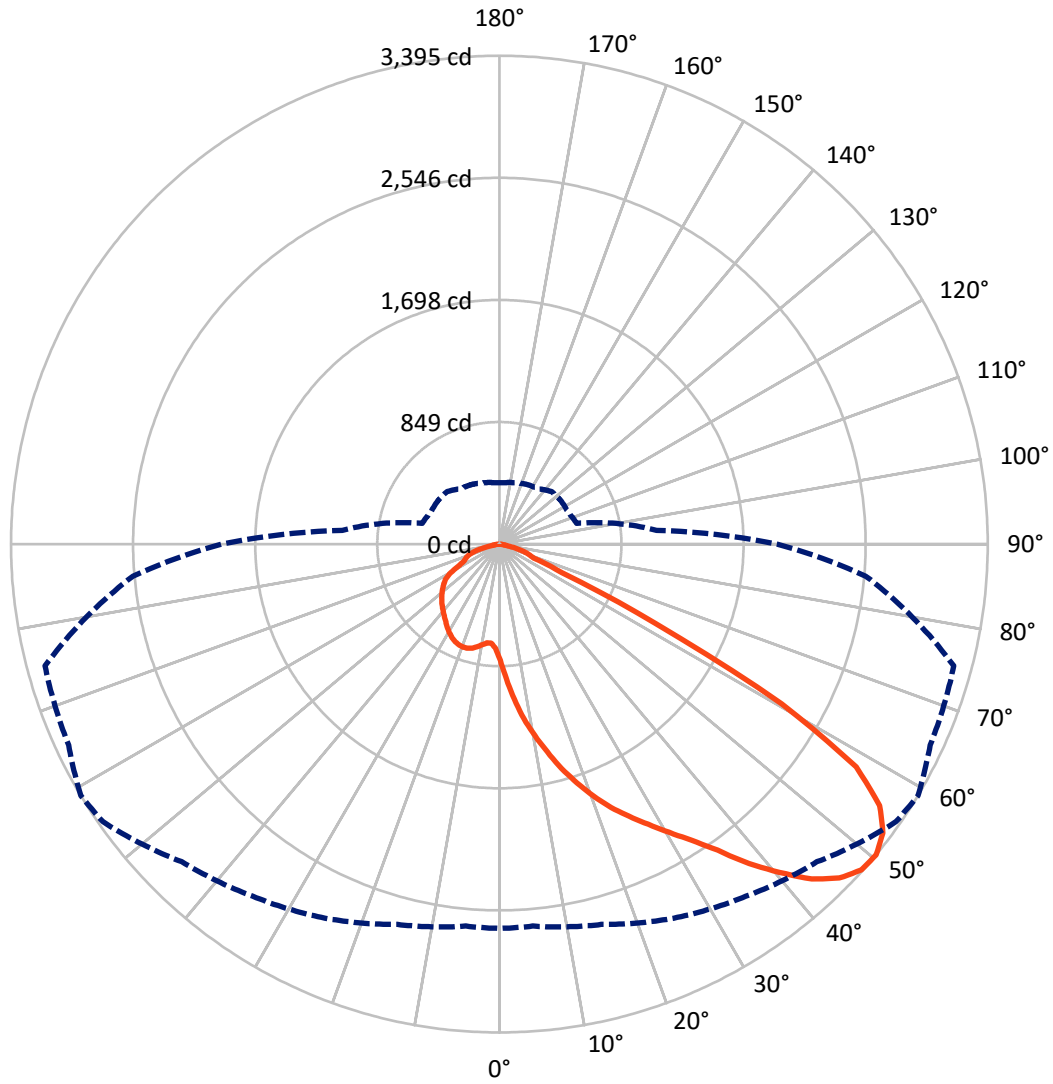
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1227.5	0.0	1227.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4109.2	0.0	4109.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5336.7	0.0	5336.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	1.7
10°-20°	329.3	6.2
20°-30°	623.5	11.7
30°-40°	1034.0	19.4
40°-50°	1412.5	26.5
50°-60°	1282.2	24.0
60°-70°	427.0	8.0
70°-80°	124.5	2.3
80°-90°	13.1	0.2
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°	5336.7	100.0
0°-180°	5336.7	100.0

**Coefficient of Utilization**



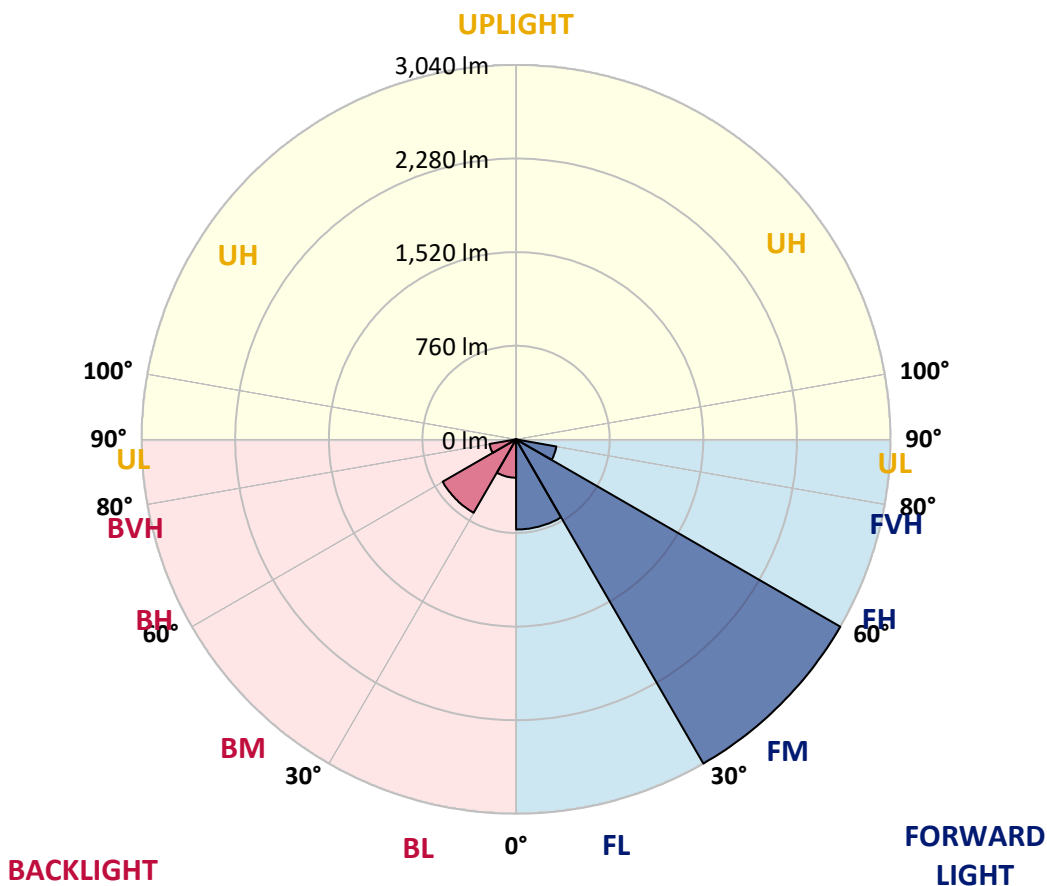
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.8	13.7			
FM (30°-60°)	3039.9	57.0			
FH (60°-80°)	332.4	6.2			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	311.7	5.8	B1/500		
BM (30°-60°)	688.8	12.9	B1/1000		
BH (60°-80°)	219.1	4.1	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	1047.6	1055.5	1043.3	1044.2	1013.7	999.8	960.7	937.7	922.4	879.8	841.2
5°	1258.9	1249.8	1240.2	1234.6	1208.0	1170.7	1122.0	1083.3	1047.6	964.2	883.8
7.5°	1388.4	1383.7	1377.1	1373.7	1347.6	1308.5	1259.8	1226.7	1175.0	1062.0	935.5
10°	1498.4	1492.8	1488.9	1491.5	1470.2	1445.0	1391.9	1354.1	1295.8	1165.4	998.1
12.5°	1583.6	1586.7	1588.0	1601.9	1592.8	1577.5	1522.8	1482.8	1418.0	1274.5	1071.5
15°	1651.0	1650.1	1665.3	1691.9	1706.6	1697.1	1653.2	1619.7	1540.6	1381.9	1150.7
17.5°	1666.7	1667.5	1691.4	1737.9	1786.2	1809.7	1784.9	1744.9	1666.7	1488.0	1232.8
20°	1679.3	1681.0	1705.8	1758.8	1829.2	1894.9	1898.8	1870.1	1802.7	1602.8	1316.3
22.5°	1758.8	1762.7	1769.2	1802.7	1866.2	1949.2	1994.9	1988.8	1932.3	1723.2	1406.3
25°	1967.9	1956.2	1924.4	1914.9	1939.2	2006.6	2084.4	2096.1	2068.3	1855.7	1503.2
27.5°	2226.1	2213.5	2166.6	2117.0	2064.4	2087.9	2170.9	2206.1	2206.6	2001.8	1600.6
30°	2460.4	2450.4	2412.2	2341.3	2250.5	2216.6	2277.8	2325.2	2353.5	2170.5	1711.4
32.5°	2660.8	2651.7	2600.0	2542.1	2453.5	2385.2	2407.4	2453.0	2519.1	2388.7	1849.2
35°	2829.5	2820.4	2770.8	2712.5	2630.4	2589.5	2581.7	2613.0	2698.6	2616.5	2007.5
37.5°	2966.4	2957.3	2905.6	2850.8	2788.2	2790.8	2802.5	2817.7	2866.9	2860.3	2176.6
40°	3055.1	3045.5	3008.6	2969.5	2929.9	2961.2	3019.4	3001.2	3027.3	3057.3	2332.2
42.5°	3094.7	3082.5	3061.2	3052.5	3040.3	3089.0	3201.2	3182.9	3151.6	3188.5	2447.8
45°	3055.1	3044.7	3044.2	3070.7	3099.0	3161.6	3326.8	3312.0	3232.9	3252.0	2516.9
47.5°	2933.8	2924.7	2949.5	3019.0	3088.6	3179.9	3382.9	3385.5	3290.7	3278.5	2561.7
50°	2671.7	2665.6	2737.3	2869.0	2989.0	3122.9	3365.0	3395.0	3304.6	3270.3	2556.1
52.5°	2138.7	2167.0	2323.1	2543.0	2776.0	3022.9	3299.0	3338.1	3237.7	3215.9	2525.6
55°	1464.1	1477.1	1633.2	1954.4	2323.9	2806.4	3147.3	3207.7	3158.6	3206.8	2557.4
57.5°	758.1	768.6	891.6	1176.7	1576.2	2217.9	2726.0	2924.2	2999.0	3252.9	2656.0
60°	311.2	319.9	370.8	508.6	795.1	1291.5	1961.8	2255.7	2431.3	2970.8	2358.7
62.5°	226.0	230.4	254.7	303.4	416.4	632.9	1110.2	1218.5	1341.9	1861.8	1497.6
65°	190.4	195.2	214.7	244.3	303.9	388.2	474.3	476.9	525.6	758.6	555.1
67.5°	159.5	163.9	181.3	206.5	245.6	275.6	254.7	255.2	254.3	275.2	266.0
70°	124.3	127.8	145.2	172.1	192.6	176.9	199.1	220.4	211.3	219.5	232.1
72.5°	90.9	94.8	110.0	130.4	125.2	126.1	161.3	183.0	177.8	186.9	198.7
75°	65.6	68.2	76.1	65.2	68.7	83.0	113.5	125.2	130.4	138.2	148.7
77.5°	21.3	21.3	23.9	30.0	37.4	46.1	57.8	62.6	70.4	79.1	86.5
80°	10.9	11.3	13.5	16.5	20.9	26.5	33.9	36.1	40.0	44.8	47.8
82.5°	5.2	5.7	6.5	8.3	10.9	13.9	18.7	20.9	23.5	26.5	28.7
85°	1.3	1.3	1.7	2.6	3.5	5.2	7.0	8.3	10.4	12.6	13.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.7	2.2	2.6	3.5
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°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	823.8	799.4	768.1	741.6	717.3	698.6	682.5	674.7	667.3	662.1	663.8
5°	846.4	804.6	746.4	706.0	681.2	668.6	659.9	655.5	654.7	651.2	649.9
7.5°	879.4	819.9	742.0	701.2	684.7	678.1	673.4	670.7	672.1	668.6	667.3
10°	920.3	845.1	752.9	716.8	702.5	697.7	692.5	689.0	687.3	682.0	681.2
12.5°	971.1	876.4	772.5	736.8	722.5	714.2	707.3	701.2	697.3	690.7	689.0
15°	1025.9	911.1	795.5	756.4	739.4	727.3	716.0	706.8	699.9	691.2	689.9
17.5°	1085.5	947.7	814.6	769.9	748.1	732.0	715.5	702.0	692.5	681.2	679.9
20°	1147.6	984.6	829.0	776.4	748.6	726.8	704.7	686.8	674.7	663.4	662.5
22.5°	1212.0	1018.5	837.7	774.6	741.6	714.7	688.1	668.1	653.8	640.3	639.4
25°	1276.7	1051.1	839.8	767.7	727.7	696.4	669.9	646.4	630.3	615.1	613.4
27.5°	1342.4	1078.5	834.6	753.8	709.0	675.1	648.6	625.5	609.0	593.8	591.2
30°	1412.4	1102.0	823.3	735.5	687.3	652.5	626.4	609.0	593.4	578.2	575.5
32.5°	1487.1	1122.4	807.2	713.3	662.1	629.9	610.8	595.1	579.5	566.0	563.4
35°	1576.2	1135.9	783.3	684.7	638.6	613.4	600.3	582.1	562.9	548.2	546.9
37.5°	1668.4	1146.3	754.6	657.3	618.1	603.8	592.9	568.2	544.2	526.4	524.3
40°	1757.5	1155.0	719.0	631.6	599.5	596.8	582.1	551.2	509.9	489.9	488.2
42.5°	1840.5	1157.6	681.6	604.2	582.5	581.2	564.7	516.9	485.1	472.5	470.8
45°	1897.5	1155.4	642.9	578.6	565.5	558.6	541.2	492.1	472.5	461.2	459.0
47.5°	1939.6	1144.1	599.5	551.6	546.4	536.9	499.5	476.4	458.2	446.9	444.7
50°	1932.3	1097.2	555.6	525.6	523.4	515.1	469.0	456.9	440.8	428.6	426.9
52.5°	1894.0	1008.1	510.8	496.9	501.2	485.1	447.3	433.4	419.5	405.6	402.5
55°	1903.6	943.7	476.9	469.0	476.9	440.4	423.0	408.2	395.1	381.7	379.1
57.5°	1945.3	880.3	440.8	439.1	447.3	406.0	391.7	373.0	354.3	343.4	343.4
60°	1633.6	641.6	377.3	381.7	400.4	378.2	365.6	346.5	326.0	316.5	316.5
62.5°	965.9	402.5	313.0	308.2	319.9	333.9	340.8	325.2	300.8	288.2	288.6
65°	425.6	293.0	276.0	272.1	268.6	278.2	297.3	298.6	273.0	258.2	258.6
67.5°	262.1	265.2	258.2	255.2	252.1	250.4	248.7	249.5	242.6	229.1	228.7
70°	236.5	244.7	240.0	237.3	233.4	230.4	220.0	203.0	191.3	187.8	191.7
72.5°	203.4	214.7	212.1	210.8	206.0	198.7	184.7	168.2	154.3	145.6	147.4
75°	153.5	162.6	163.9	164.3	159.1	152.1	137.8	123.9	111.7	102.6	104.8
77.5°	88.2	93.5	94.8	96.1	92.2	89.5	80.0	70.0	63.5	53.9	56.5
80°	49.1	51.3	51.3	51.7	49.6	46.5	40.0	34.3	31.3	27.0	27.4
82.5°	29.6	30.4	30.9	31.3	30.0	27.0	22.2	18.3	16.5	14.3	13.9
85°	14.3	15.2	15.2	15.6	13.5	11.7	9.1	7.0	6.1	4.3	4.8
87.5°	3.5	3.9	3.9	3.5	3.0	2.2	1.3	0.4	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)