

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: P633440

Luminaire Tested: GWS-SA2E-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-760-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

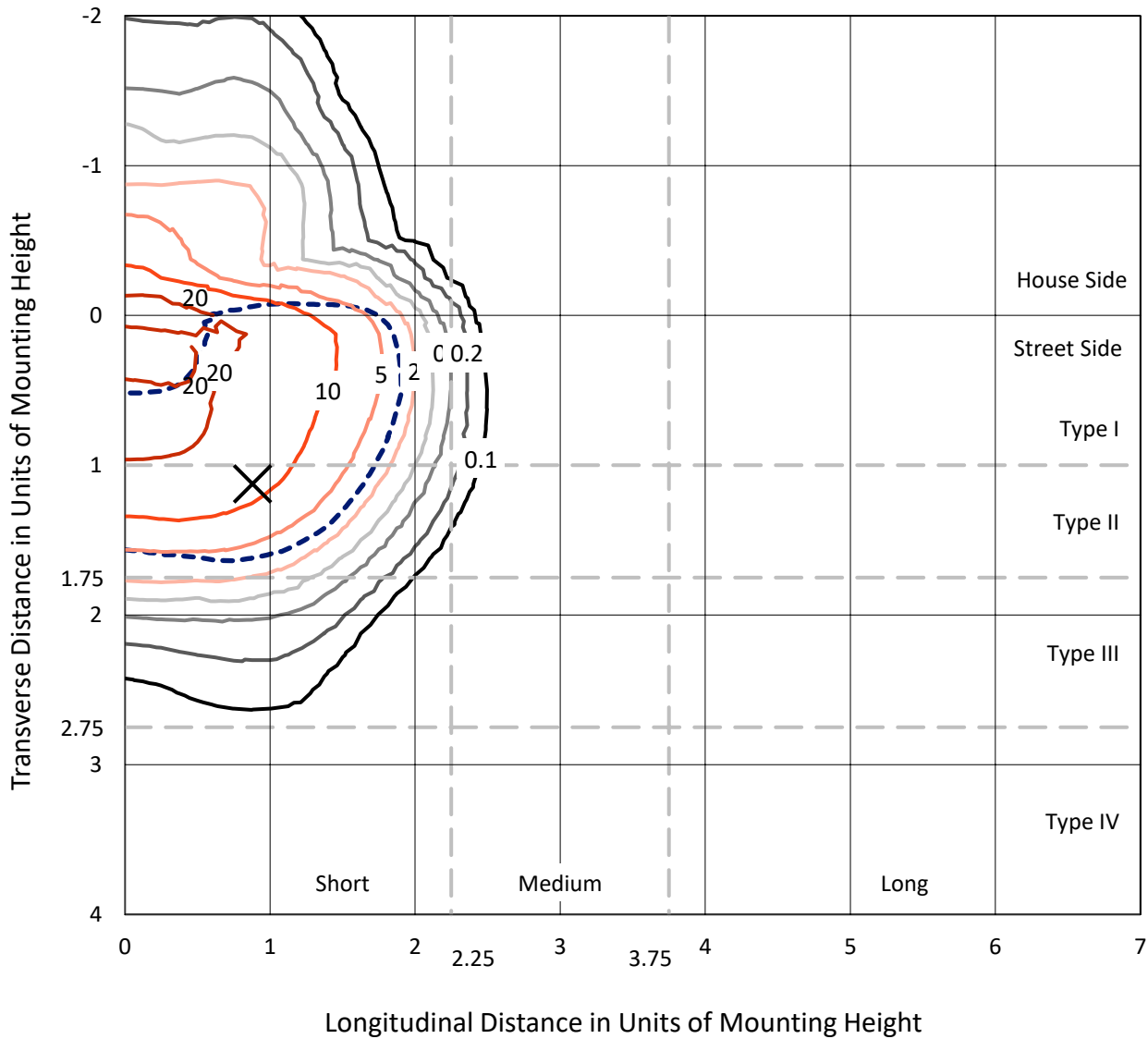
Lumens per Lamp: N/A  
Luminaire Lumens: 9232.8 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

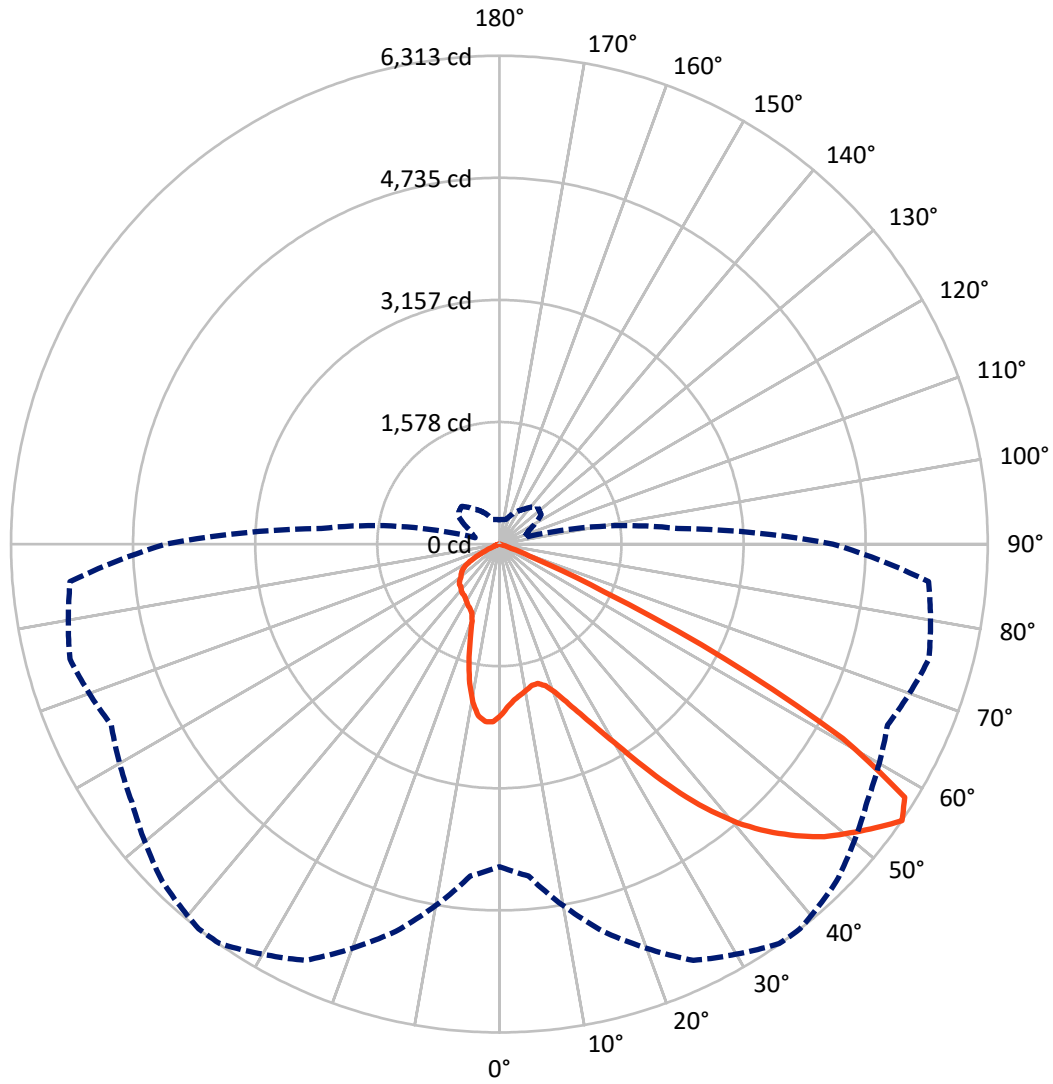
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1798.8	0.0	1798.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	7434.0	0.0	7434.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	9232.8	0.0	9232.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.7	2.2
10°-20°	551.1	6.0
20°-30°	945.8	10.2
30°-40°	1568.6	17.0
40°-50°	2306.0	25.0
50°-60°	2694.6	29.2
60°-70°	913.4	9.9
70°-80°	46.7	0.5
80°-90°	1.9	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°	9232.8	100.0
0°-180°	9232.8	100.0

**Coefficient of Utilization**



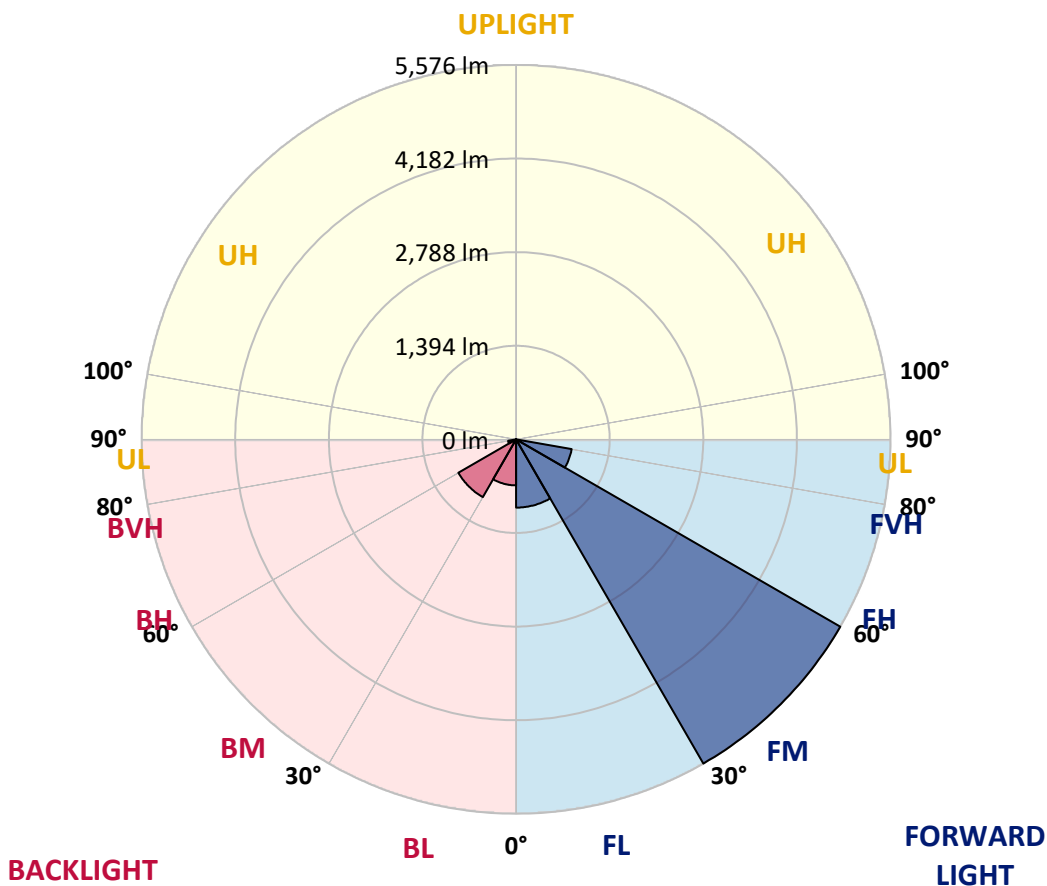
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.3	11.0			
FM (30°-60°)	5576.4	60.4			
FH (60°-80°)	840.3	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	685.3	7.4	B2/1000		
BM (30°-60°)	992.9	10.8	B1/1000		
BH (60°-80°)	119.8	1.3	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: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1
2.5°	2062.1	2057.9	2066.3	2083.2	2099.1	2104.3	2120.2	2142.3	2156.1	2188.8	2215.2
5°	1969.3	1967.1	1975.6	1990.4	2011.5	2018.9	2043.1	2080.1	2117.0	2174.0	2229.9
7.5°	1884.8	1883.8	1896.4	1929.2	1959.8	1969.3	1998.8	2044.2	2093.8	2181.4	2263.7
10°	1774.0	1775.1	1799.3	1845.8	1901.7	1920.7	1968.2	2033.6	2098.0	2210.9	2324.9
12.5°	1738.1	1740.3	1752.9	1788.8	1850.0	1874.3	1940.8	2040.0	2122.3	2253.1	2404.1
15°	1825.7	1825.7	1815.2	1819.4	1846.8	1869.0	1938.7	2061.1	2163.4	2303.8	2482.2
17.5°	1995.6	1989.3	1962.9	1927.0	1917.5	1924.9	1980.9	2106.5	2221.5	2362.9	2570.8
20°	2225.7	2227.8	2176.1	2101.2	2041.0	2040.0	2073.7	2186.7	2304.9	2433.6	2666.8
22.5°	2504.3	2495.9	2427.3	2324.9	2220.4	2212.0	2225.7	2309.1	2425.2	2545.5	2785.0
25°	2827.2	2823.0	2725.9	2588.7	2450.5	2430.4	2430.4	2512.8	2597.2	2704.8	2926.4
27.5°	3165.0	3165.0	3071.0	2912.7	2729.1	2693.2	2687.9	2785.0	2841.0	2862.1	3045.7
30°	3512.2	3507.9	3415.1	3252.5	3056.3	3019.3	3004.5	3076.3	3116.4	3053.1	3194.5
32.5°	3864.6	3872.0	3778.1	3627.2	3452.0	3427.7	3382.4	3382.4	3415.1	3326.4	3428.8
35°	4243.5	4241.4	4167.5	4065.2	3915.3	3887.9	3812.9	3695.8	3745.4	3706.3	3752.8
37.5°	4578.1	4593.9	4558.0	4482.0	4360.7	4333.2	4209.7	3997.6	4035.6	4096.8	4138.0
40°	4917.9	4930.5	4966.4	4942.1	4789.1	4738.5	4519.0	4170.7	4212.9	4422.9	4541.1
42.5°	5251.4	5257.7	5330.5	5370.6	5165.9	5077.2	4753.2	4276.2	4320.5	4678.3	4885.2
45°	5463.5	5477.2	5597.5	5719.9	5498.3	5376.9	4956.9	4411.3	4430.3	4855.6	5139.5
47.5°	5455.0	5486.7	5712.5	5935.2	5784.3	5653.4	5201.8	4627.7	4596.0	5022.3	5307.3
50°	5285.1	5323.1	5647.1	6000.6	5990.1	5868.7	5474.0	4941.1	4841.9	5170.1	5328.4
52.5°	4932.6	5042.4	5532.1	6009.1	6155.8	6094.6	5810.7	5363.2	5174.3	5382.2	5362.2
55°	4170.7	4305.8	5182.8	5937.3	6305.6	6313.0	6164.2	5803.3	5535.2	5747.4	5570.1
57.5°	3166.0	3273.7	3989.2	5285.1	6057.6	6179.0	6301.4	6035.5	5757.9	5996.4	5618.6
60°	1908.0	2032.6	2498.0	3878.4	4892.5	5099.4	5579.6	5527.9	5193.3	5295.7	4607.6
62.5°	773.6	839.0	1153.5	2137.1	3079.5	3272.6	3732.7	3810.8	3728.5	3624.0	2794.5
65°	282.8	309.2	462.2	883.3	1416.3	1487.0	1729.7	1867.9	1981.9	1687.5	1039.5
67.5°	175.2	192.1	300.8	453.8	515.0	479.1	487.6	581.5	555.1	343.0	185.7
70°	129.8	143.5	235.3	314.5	207.9	160.4	108.7	116.1	104.5	91.8	90.8
72.5°	89.7	102.4	176.2	185.7	80.2	57.0	40.1	55.9	63.3	62.3	64.4
75°	59.1	68.6	110.8	72.8	20.1	15.8	13.7	29.5	38.0	38.0	39.0
77.5°	34.8	40.1	39.0	14.8	4.2	4.2	3.2	5.3	8.4	9.5	11.6
80°	4.2	3.2	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2
82.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
85°	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
87.5°	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
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°	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1
2.5°	2235.2	2227.8	2258.4	2280.6	2298.5	2307.0	2295.4	2294.3	2294.3	2271.1	2264.8
5°	2261.6	2264.8	2308.0	2327.0	2330.2	2319.6	2293.2	2275.3	2264.8	2240.5	2226.8
7.5°	2312.2	2322.8	2364.0	2360.8	2332.3	2283.7	2214.1	2160.3	2125.4	2087.5	2064.2
10°	2385.1	2405.1	2430.4	2386.1	2295.4	2171.9	2028.4	1926.0	1864.8	1821.5	1795.1
12.5°	2473.7	2493.8	2485.3	2380.8	2191.9	1971.4	1786.7	1638.9	1568.2	1529.2	1501.7
15°	2563.4	2576.1	2521.2	2317.5	2009.4	1712.8	1507.0	1360.3	1273.8	1242.1	1218.9
17.5°	2655.2	2652.1	2527.5	2193.0	1765.6	1421.5	1218.9	1118.7	1094.4	1089.1	1087.0
20°	2751.3	2722.8	2502.2	2014.6	1472.2	1133.4	1018.4	1024.7	1069.1	1090.2	1094.4
22.5°	2861.0	2789.3	2438.9	1773.0	1172.5	944.5	956.1	1018.4	1078.6	1107.0	1111.3
25°	2978.2	2850.5	2333.3	1462.7	924.5	868.5	937.1	1008.9	1073.3	1108.1	1112.3
27.5°	3055.2	2865.2	2160.3	1150.3	793.6	839.0	911.8	980.4	1046.9	1084.9	1090.2
30°	3138.6	2858.9	1924.9	886.5	749.3	813.7	877.0	939.2	1000.5	1042.7	1046.9
32.5°	3261.0	2854.7	1637.9	719.7	731.3	793.6	840.0	891.8	934.0	958.2	955.1
35°	3421.4	2849.4	1303.3	649.0	720.8	777.8	814.7	839.0	792.6	777.8	780.9
37.5°	3627.2	2862.1	1021.6	619.5	717.6	773.6	805.2	735.6	663.8	636.4	632.1
40°	3855.1	2894.8	778.8	607.9	728.2	784.1	769.3	654.3	565.7	511.8	500.2
42.5°	4084.2	2930.7	616.3	603.7	746.1	813.7	710.2	595.2	462.2	431.6	427.4
45°	4254.1	2924.3	532.9	596.3	762.0	830.5	694.4	510.8	412.6	398.9	400.0
47.5°	4339.5	2854.7	487.6	579.4	768.3	813.7	655.4	476.0	378.9	393.6	406.3
50°	4294.2	2674.2	445.4	546.7	754.6	791.5	593.1	449.6	362.0	423.2	451.7
52.5°	4239.3	2452.6	398.9	496.0	721.9	760.9	568.8	442.2	351.4	408.4	429.5
55°	4312.1	2312.2	322.9	417.9	657.5	689.1	549.8	441.1	327.2	317.7	314.5
57.5°	4209.7	2032.6	231.1	300.8	504.5	545.6	536.1	433.7	290.2	289.2	293.4
60°	3253.6	1240.0	158.3	191.0	309.2	348.3	486.5	414.7	250.1	230.1	231.1
62.5°	1848.9	527.7	108.7	118.2	158.3	187.8	371.5	376.8	231.1	219.5	231.1
65°	643.8	188.9	84.4	79.2	87.6	100.3	213.2	291.3	210.0	190.0	192.1
67.5°	133.0	93.9	74.9	65.4	65.4	65.4	108.7	181.5	173.1	150.9	153.0
70°	84.4	80.2	65.4	55.9	53.8	49.6	62.3	100.3	119.3	109.8	110.8
72.5°	62.3	61.2	51.7	45.4	40.1	35.9	39.0	49.6	61.2	63.3	64.4
75°	38.0	39.0	33.8	28.5	25.3	22.2	23.2	23.2	23.2	21.1	23.2
77.5°	11.6	12.7	10.6	8.4	7.4	7.4	7.4	6.3	5.3	3.2	3.2
80°	3.2	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0
82.5°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0
85°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	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)