

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: P636797

Luminaire Tested: GWS-SA4B-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

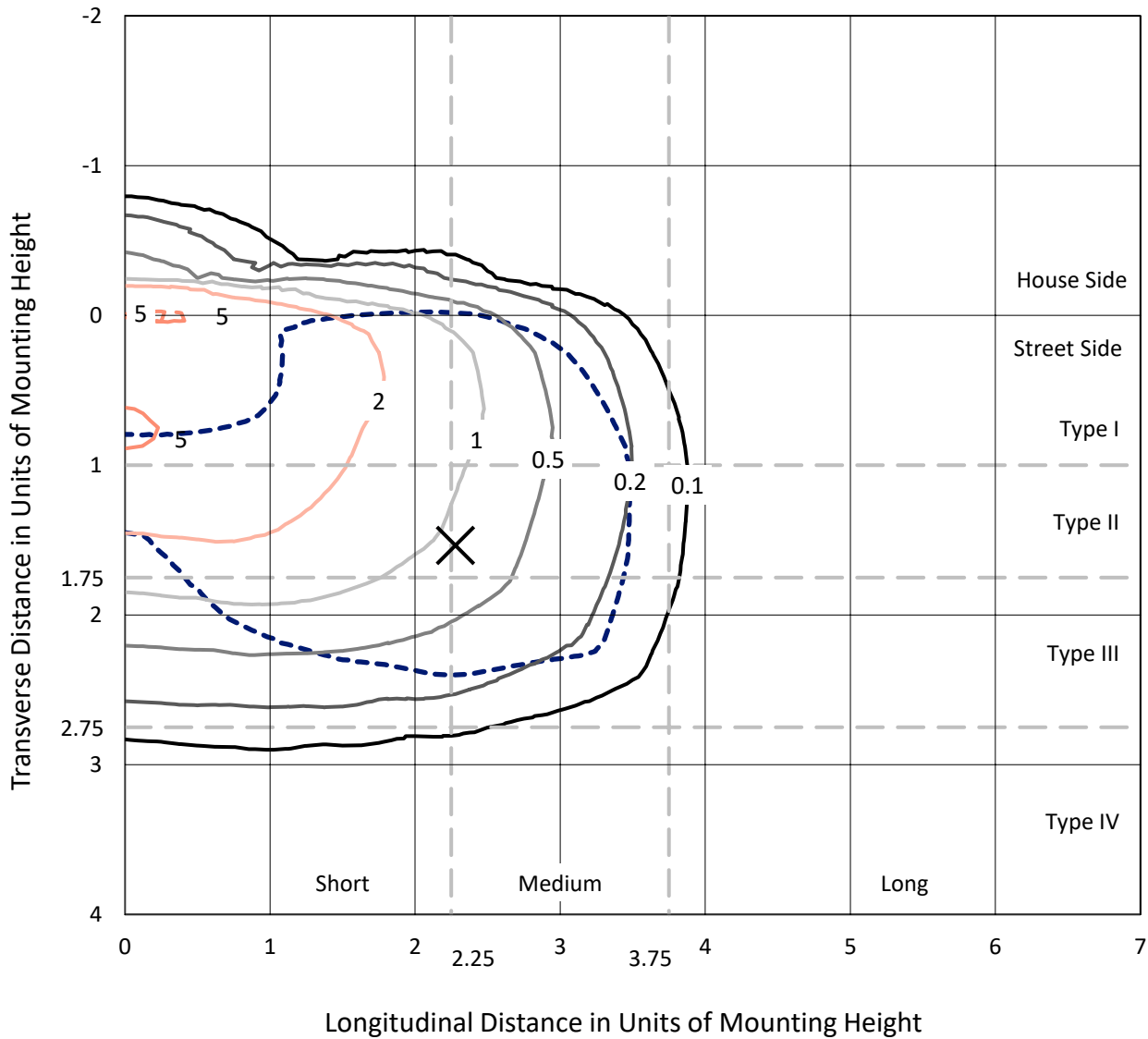
Lumens per Lamp: N/A  
Luminaire Lumens: 11330.8 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): 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

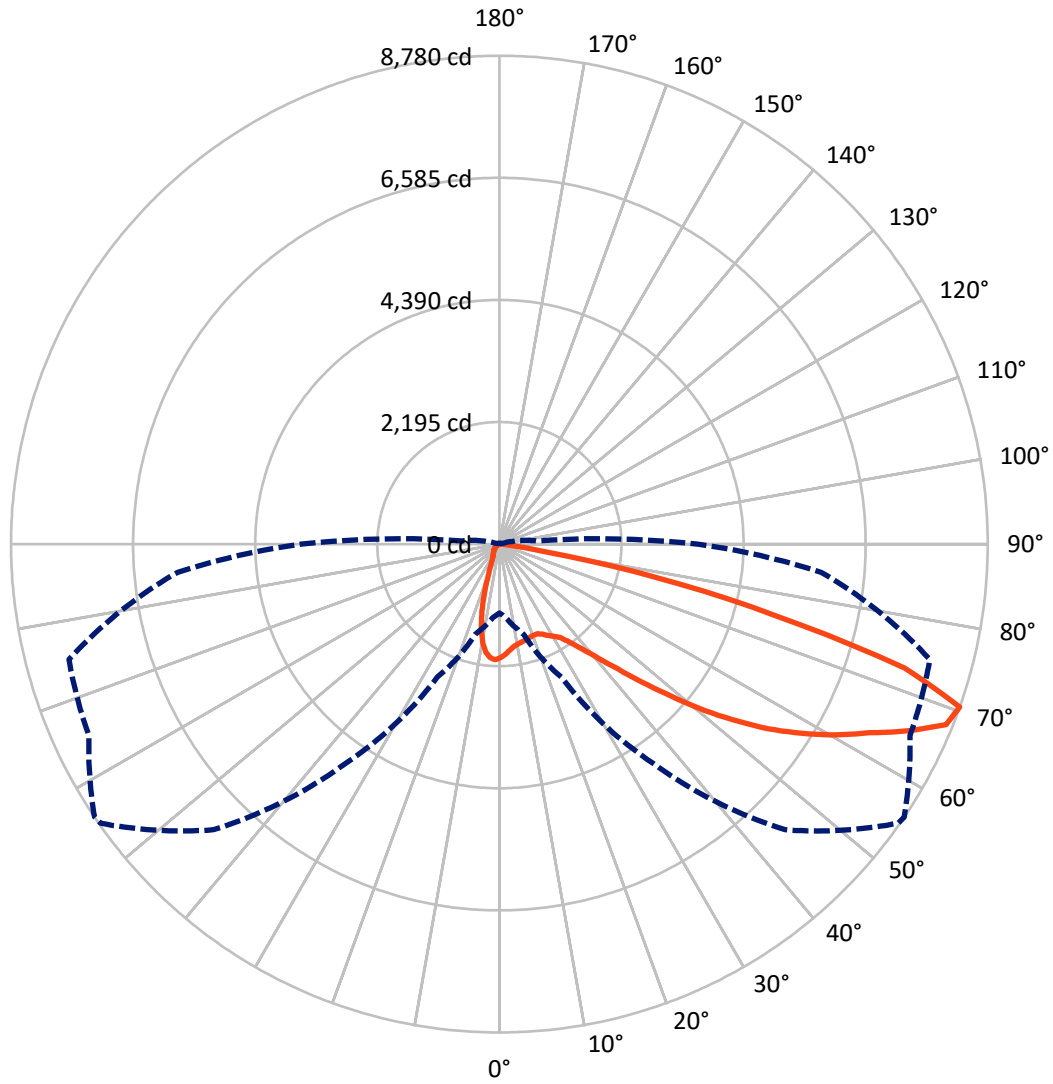
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1017.7	0.0	1017.7
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	10313.1	0.0	10313.1
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	11330.8	0.0	11330.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.4	1.5
10°-20°	394.5	3.5
20°-30°	624.9	5.5
30°-40°	1077.7	9.5
40°-50°	1819.9	16.1
50°-60°	2674.0	23.6
60°-70°	3170.1	28.0
70°-80°	1351.9	11.9
80°-90°	42.5	0.4
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°	11330.8	100.0
0°-180°	11330.8	100.0

**Coefficient of Utilization**



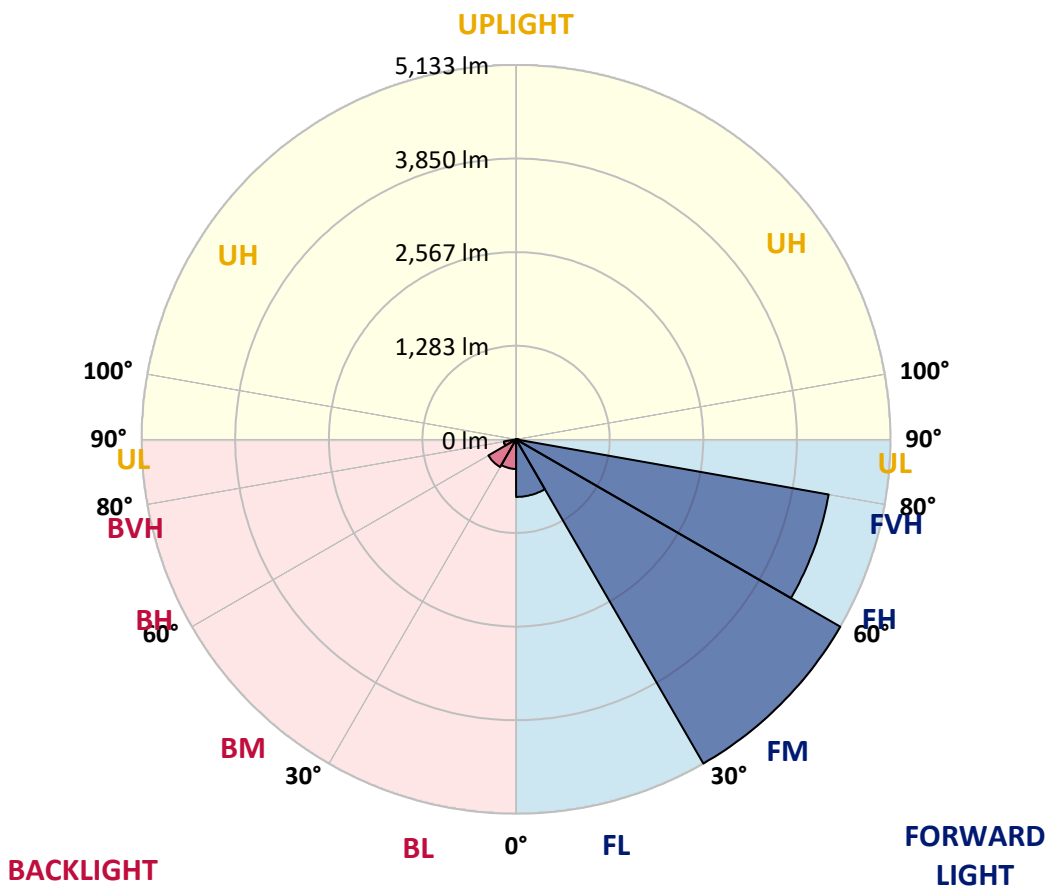
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.5	7.0			
FM (30°-60°)	5133.1	45.3			
FH (60°-80°)	4352.2	38.4			G2/5000
FVH (80°-90°)	38.1	0.3			G1/100
BL (0°-30°)	405.3	3.6	B1/500		
BM (30°-60°)	438.3	3.9	B1/1000		
BH (60°-80°)	169.7	1.5	B1/500		G1/500
BVH (80°-90°)	4.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1
2.5°	1901.9	1898.8	1900.9	1916.5	1945.5	1959.0	1981.8	1986.0	2004.7	2028.5	2037.9
5°	1778.5	1768.1	1773.3	1795.1	1828.3	1865.6	1908.2	1919.6	1966.3	2019.2	2058.6
7.5°	1665.4	1654.0	1666.4	1700.6	1747.3	1787.8	1851.1	1858.4	1933.1	2026.5	2098.1
10°	1487.9	1491.0	1516.0	1576.1	1647.7	1731.8	1816.9	1827.2	1919.6	2050.3	2161.3
12.5°	1352.0	1344.7	1371.7	1440.2	1540.9	1663.3	1790.9	1804.4	1920.6	2086.6	2242.3
15°	1288.7	1286.6	1298.1	1347.9	1445.4	1589.6	1767.1	1784.7	1934.1	2119.8	2319.1
17.5°	1290.8	1287.7	1286.6	1315.7	1388.3	1534.6	1741.1	1763.9	1945.5	2156.2	2400.0
20°	1381.1	1366.5	1340.6	1327.1	1370.7	1499.3	1723.5	1749.4	1962.1	2194.5	2486.1
22.5°	1569.9	1575.1	1505.6	1432.9	1412.2	1503.5	1721.4	1751.5	1998.4	2254.7	2592.0
25°	1947.6	1939.3	1810.6	1647.7	1534.6	1551.2	1757.7	1794.0	2070.0	2340.9	2691.6
27.5°	2420.7	2428.0	2251.6	1992.2	1755.6	1649.8	1824.1	1860.4	2153.0	2394.8	2758.0
30°	2936.4	2929.2	2740.3	2452.9	2069.0	1813.7	1890.5	1922.7	2194.5	2423.9	2826.5
32.5°	3424.1	3407.5	3220.7	2919.8	2468.5	2072.1	1981.8	2000.5	2249.5	2487.2	2918.8
35°	3840.2	3839.2	3676.3	3355.6	2879.4	2395.8	2138.5	2154.1	2352.3	2587.8	3054.7
37.5°	4269.8	4255.2	4072.6	3780.0	3301.7	2750.7	2378.2	2372.0	2514.1	2736.2	3221.8
40°	4622.6	4613.2	4473.1	4192.0	3740.6	3142.9	2668.7	2650.1	2706.1	2941.6	3454.2
42.5°	4884.0	4885.1	4841.5	4670.3	4205.4	3596.4	3034.0	3004.9	3003.9	3251.9	3761.3
45°	5082.2	5095.7	5161.1	5135.1	4754.3	4124.5	3501.9	3471.8	3421.0	3654.5	4113.1
47.5°	5174.6	5192.2	5389.4	5493.1	5234.8	4648.5	4059.1	3995.8	3896.2	4189.9	4506.3
50°	5165.2	5196.4	5471.3	5786.8	5670.5	5179.8	4666.1	4636.0	4473.1	4756.4	4895.5
52.5°	4953.6	5020.0	5476.5	5965.2	6005.7	5669.5	5293.9	5237.9	5159.0	5347.9	5260.7
55°	4378.7	4459.7	5257.6	6022.3	6267.2	6097.0	5908.2	5862.5	5731.8	5906.1	5579.2
57.5°	4066.4	4135.9	4796.9	5994.3	6489.2	6492.3	6455.0	6417.6	6309.7	6458.1	5952.8
60°	3878.6	3948.1	4551.0	5891.6	6690.5	6909.5	6968.6	6964.4	6808.8	7085.8	6390.6
62.5°	3603.6	3699.1	4294.7	5624.9	6833.7	7320.3	7498.8	7470.8	7297.5	7739.5	6824.4
65°	3048.5	3131.5	3769.6	5184.9	6749.7	7660.7	8073.7	8088.2	7887.9	8354.8	7166.8
67.5°	2137.5	2198.7	2832.7	4261.5	6179.0	7772.7	8662.0	8660.9	8319.6	8670.3	7015.3
70°	1238.9	1323.0	1673.7	2634.5	4807.3	7263.3	8750.2	8780.3	8144.2	8011.4	5805.4
72.5°	479.4	548.9	948.4	1399.7	2506.9	5563.7	7526.8	7615.0	6816.1	6180.0	4040.5
75°	143.2	159.8	446.2	745.0	1006.5	2687.4	5095.7	5120.6	4675.5	3854.7	2071.1
77.5°	106.9	118.3	195.1	376.7	352.8	814.5	2636.6	2879.4	2482.0	1376.9	570.7
80°	72.6	86.1	139.0	183.7	130.7	216.9	740.9	813.5	757.5	309.2	143.2
82.5°	32.2	41.5	98.6	92.3	47.7	62.3	228.3	242.8	156.7	93.4	49.8
85°	3.1	4.2	37.4	40.5	17.6	14.5	47.7	47.7	34.2	32.2	20.8
87.5°	0.0	0.0	1.0	2.1	2.1	3.1	4.2	5.2	6.2	8.3	10.4
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°	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1
2.5°	2061.7	2049.3	2064.8	2077.3	2080.4	2057.6	2044.1	2024.4	2020.2	2021.3	2016.1
5°	2089.7	2083.5	2094.9	2081.4	2046.2	1979.8	1922.7	1859.4	1825.2	1805.4	1803.4
7.5°	2141.6	2138.5	2126.1	2064.8	1954.9	1807.5	1665.4	1526.3	1440.2	1409.1	1403.9
10°	2218.4	2212.2	2161.3	2016.1	1781.6	1498.3	1259.7	1060.4	939.0	903.8	860.2
12.5°	2306.6	2294.2	2183.1	1911.3	1520.1	1127.9	830.1	607.0	502.2	471.1	471.1
15°	2391.7	2364.7	2170.7	1738.0	1198.4	733.6	463.8	350.7	318.5	310.2	310.2
17.5°	2478.9	2427.0	2121.9	1501.4	828.0	433.7	309.2	287.4	283.3	284.3	285.3
20°	2560.8	2479.9	2035.8	1217.1	528.1	303.0	277.0	271.9	269.8	271.9	270.8
22.5°	2650.1	2528.7	1905.1	906.9	343.4	272.9	263.6	259.4	257.3	260.4	260.4
25°	2738.3	2563.9	1731.8	610.1	272.9	254.2	249.0	244.9	242.8	243.8	243.8
27.5°	2783.9	2550.4	1504.5	389.1	244.9	235.5	230.3	225.2	222.0	221.0	222.0
30°	2815.0	2508.9	1226.5	277.0	222.0	210.6	205.4	201.3	193.0	187.8	189.9
32.5°	2863.8	2467.4	924.5	232.4	203.4	185.7	177.4	167.1	155.6	150.5	150.5
35°	2921.9	2410.4	648.5	209.6	183.7	165.0	149.4	131.8	118.3	114.1	114.1
37.5°	2998.7	2356.4	431.6	194.0	167.1	147.3	125.6	104.8	90.3	88.2	87.2
40°	3113.9	2310.8	304.0	182.6	152.5	128.7	102.7	80.9	70.6	67.4	67.4
42.5°	3263.3	2264.1	240.7	171.2	140.1	111.0	82.0	64.3	56.0	54.0	52.9
45°	3448.0	2209.1	209.6	160.8	127.6	92.3	65.4	54.0	47.7	45.7	45.7
47.5°	3648.2	2134.4	195.1	147.3	113.1	74.7	55.0	46.7	43.6	42.5	41.5
50°	3845.4	2033.7	182.6	134.9	96.5	61.2	47.7	42.5	40.5	39.4	39.4
52.5°	4017.6	1916.5	167.1	120.4	78.9	52.9	42.5	39.4	37.4	35.3	34.2
55°	4165.0	1788.8	147.3	103.8	64.3	46.7	39.4	36.3	34.2	32.2	31.1
57.5°	4354.9	1716.2	118.3	84.0	52.9	41.5	36.3	33.2	31.1	28.0	28.0
60°	4565.5	1663.3	88.2	66.4	45.7	38.4	33.2	30.1	28.0	24.9	24.9
62.5°	4734.6	1584.4	69.5	54.0	39.4	34.2	30.1	27.0	24.9	21.8	21.8
65°	4799.0	1421.5	57.1	42.5	32.2	30.1	27.0	24.9	21.8	18.7	18.7
67.5°	4508.4	1095.7	47.7	34.2	27.0	25.9	23.9	22.8	18.7	16.6	15.6
70°	3570.4	668.2	39.4	28.0	22.8	21.8	21.8	19.7	16.6	15.6	14.5
72.5°	2446.7	344.5	32.2	22.8	19.7	19.7	18.7	17.6	15.6	14.5	14.5
75°	1271.1	115.2	24.9	17.6	15.6	16.6	16.6	15.6	14.5	14.5	13.5
77.5°	364.2	51.9	18.7	13.5	12.5	12.5	13.5	13.5	13.5	12.5	12.5
80°	94.4	30.1	13.5	10.4	10.4	10.4	10.4	11.4	12.5	11.4	11.4
82.5°	38.4	16.6	9.3	8.3	8.3	8.3	8.3	9.3	10.4	10.4	10.4
85°	23.9	8.3	7.3	7.3	7.3	6.2	6.2	7.3	7.3	8.3	8.3
87.5°	14.5	6.2	6.2	6.2	6.2	5.2	5.2	5.2	5.2	5.2	5.2
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)