

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: P633332

Luminaire Tested: GWS-SA2E-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633332  
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-SA2E-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

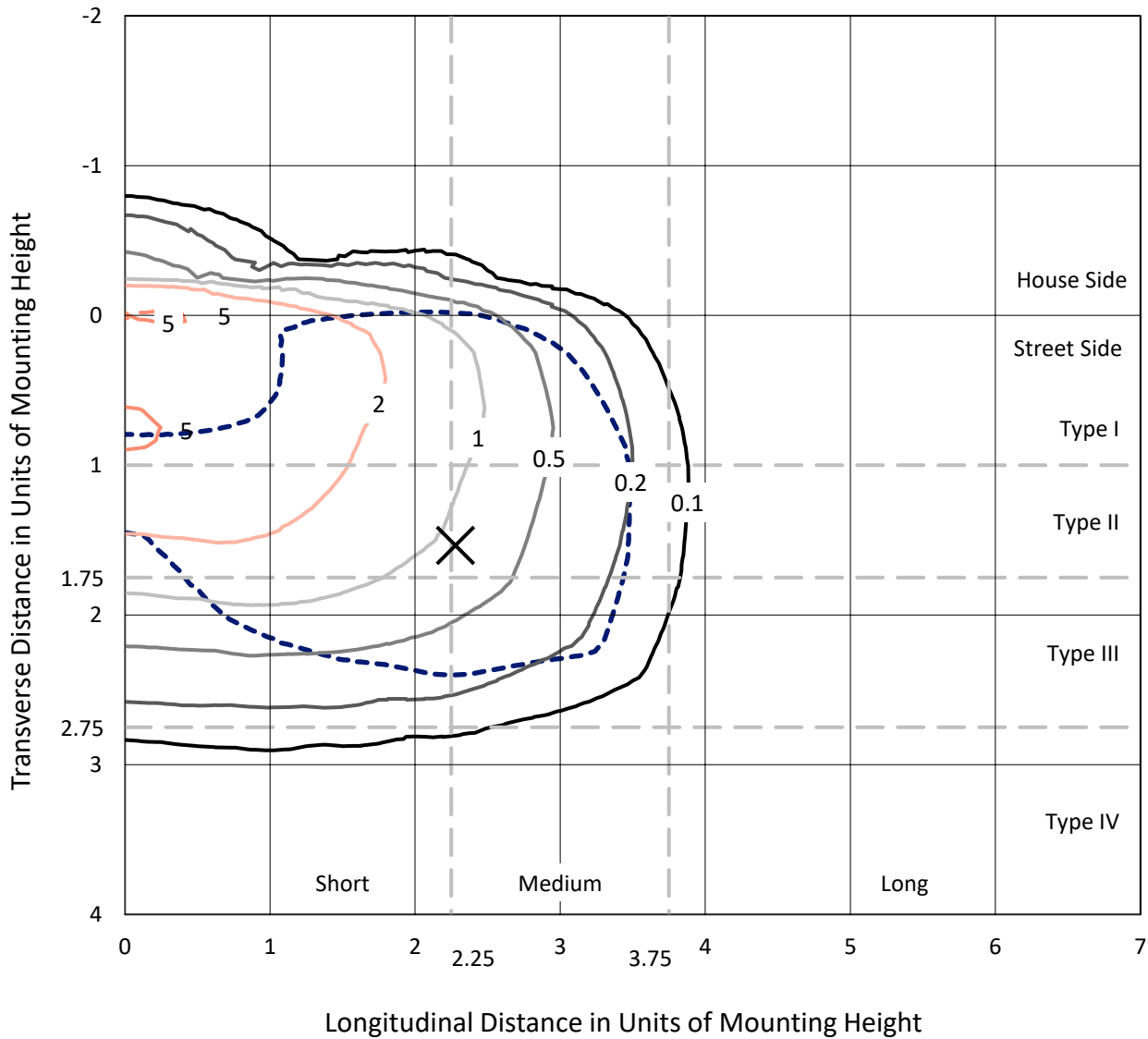
Lumens per Lamp: N/A  
Luminaire Lumens: 11422.2 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

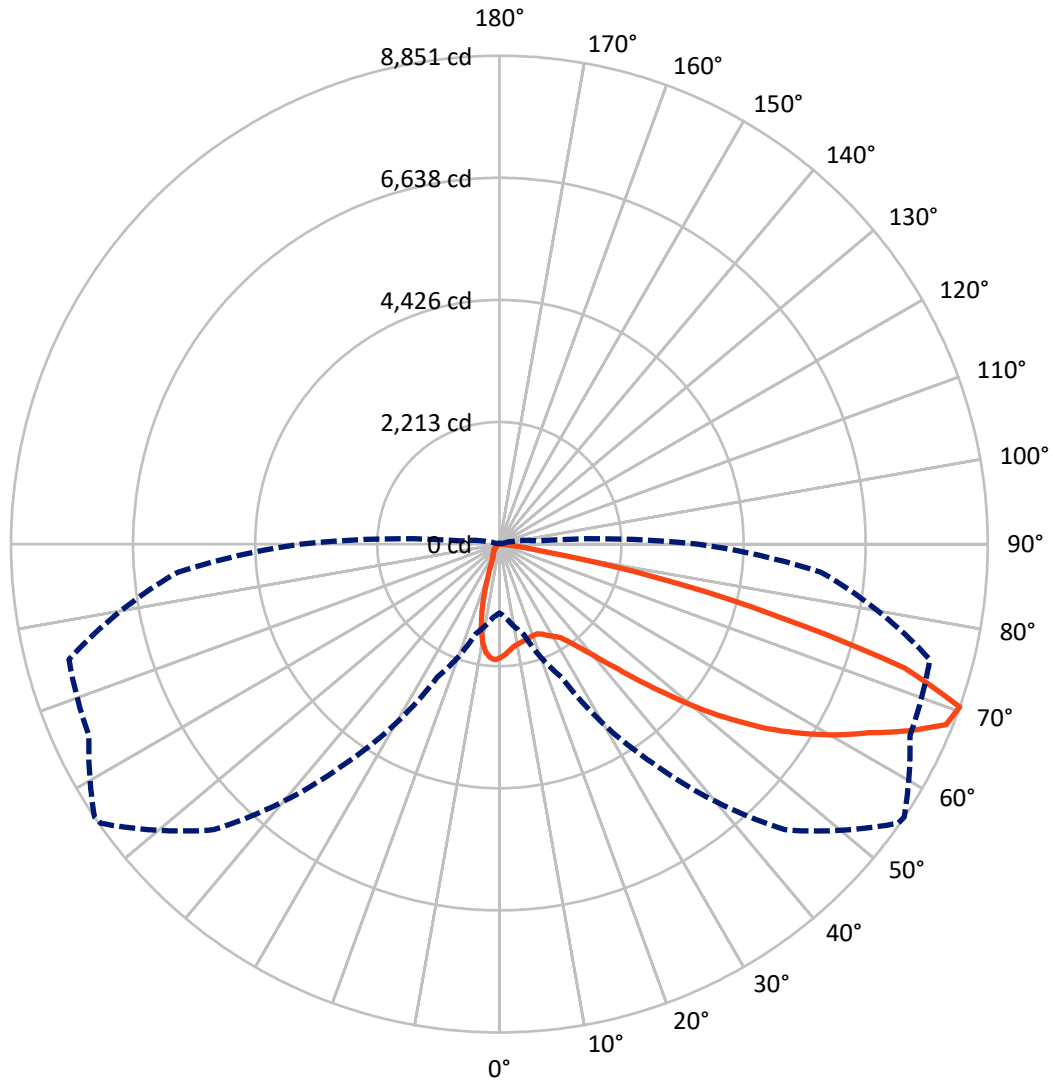
✕ Max cd  
 - - - 1/2 Max cd



Based on 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	1025.9	0.0	1025.9
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	10396.3	0.0	10396.3
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	11422.2	0.0	11422.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	1.5
10°-20°	397.7	3.5
20°-30°	630.0	5.5
30°-40°	1086.4	9.5
40°-50°	1834.5	16.1
50°-60°	2695.5	23.6
60°-70°	3195.7	28.0
70°-80°	1362.8	11.9
80°-90°	42.8	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°	11422.2	100.0
0°-180°	11422.2	100.0

**Coefficient of Utilization**



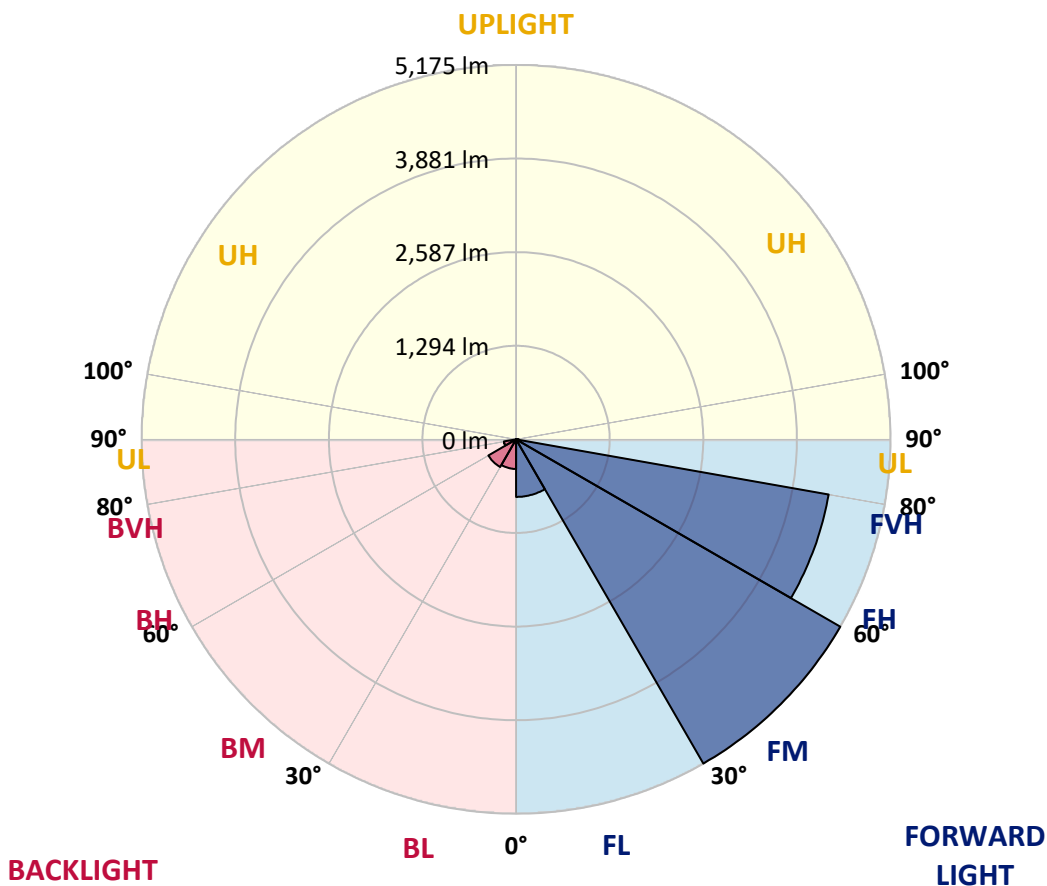
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.9	7.0			
FM (30°-60°)	5174.6	45.3			
FH (60°-80°)	4387.3	38.4			G2/5000
FVH (80°-90°)	38.4	0.3			G1/100
BL (0°-30°)	408.6	3.6	B1/500		
BM (30°-60°)	441.9	3.9	B1/1000		
BH (60°-80°)	171.1	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°	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5
2.5°	1917.3	1914.1	1916.2	1931.9	1961.2	1974.8	1997.8	2002.0	2020.8	2044.9	2054.3
5°	1792.8	1782.4	1787.6	1809.5	1843.0	1880.7	1923.6	1935.1	1982.1	2035.5	2075.2
7.5°	1678.8	1667.3	1679.8	1714.4	1761.4	1802.2	1866.0	1873.4	1948.7	2042.8	2115.0
10°	1499.9	1503.1	1528.2	1588.8	1661.0	1745.7	1831.5	1842.0	1935.1	2066.9	2178.8
12.5°	1362.9	1355.6	1382.8	1451.8	1553.3	1676.7	1805.4	1819.0	1936.1	2103.5	2260.4
15°	1299.1	1297.0	1308.5	1358.7	1457.1	1602.4	1781.3	1799.1	1949.7	2136.9	2337.8
17.5°	1301.2	1298.1	1297.0	1326.3	1399.5	1547.0	1755.2	1778.2	1961.2	2173.5	2419.4
20°	1392.2	1377.6	1351.4	1337.8	1381.7	1511.4	1737.4	1763.5	1978.0	2212.3	2506.2
22.5°	1582.6	1587.8	1517.7	1444.5	1423.6	1515.6	1735.3	1765.6	2014.6	2272.9	2612.9
25°	1963.3	1954.9	1825.2	1661.0	1547.0	1563.7	1771.9	1808.5	2086.7	2359.7	2713.3
27.5°	2440.3	2447.6	2269.8	2008.3	1769.8	1663.1	1838.8	1875.4	2170.4	2414.1	2780.2
30°	2960.1	2952.8	2762.4	2472.7	2085.7	1828.4	1905.8	1938.2	2212.3	2443.4	2849.3
32.5°	3451.7	3435.0	3246.7	2943.4	2488.4	2088.8	1997.8	2016.7	2267.7	2507.2	2942.3
35°	3871.2	3870.1	3705.9	3382.7	2902.6	2415.2	2155.8	2171.5	2371.2	2608.7	3079.4
37.5°	4304.2	4289.6	4105.5	3810.5	3328.3	2772.9	2397.4	2391.1	2534.4	2758.3	3247.8
40°	4659.8	4650.4	4509.2	4225.8	3770.8	3168.3	2690.3	2671.4	2727.9	2965.4	3482.1
42.5°	4923.4	4924.5	4880.5	4708.0	4239.4	3625.4	3058.4	3029.2	3028.1	3278.1	3791.7
45°	5123.2	5136.8	5202.7	5176.6	4792.7	4157.8	3530.2	3499.9	3448.6	3683.9	4146.3
47.5°	5216.3	5234.1	5432.8	5537.4	5277.0	4686.0	4091.9	4028.1	3927.7	4223.7	4542.7
50°	5206.9	5238.3	5515.5	5833.4	5716.3	5221.5	4703.8	4673.4	4509.2	4794.8	4934.9
52.5°	4993.5	5060.5	5520.7	6013.3	6054.1	5715.2	5336.6	5280.1	5200.6	5391.0	5303.1
55°	4414.0	4495.6	5300.0	6070.9	6317.7	6146.2	5955.8	5909.8	5778.0	5953.7	5624.2
57.5°	4099.2	4169.3	4835.6	6042.6	6541.6	6544.7	6507.1	6469.4	6360.6	6510.2	6000.8
60°	3909.9	3980.0	4587.7	5939.1	6744.5	6965.2	7024.8	7020.6	6863.7	7143.0	6442.2
62.5°	3632.7	3728.9	4329.3	5670.3	6888.8	7379.4	7559.3	7531.1	7356.4	7802.0	6879.4
65°	3073.1	3156.8	3800.1	5226.8	6804.1	7722.5	8138.8	8153.4	7951.6	8422.2	7224.6
67.5°	2154.7	2216.4	2855.5	4295.8	6228.8	7835.4	8731.9	8730.8	8386.7	8740.2	7071.9
70°	1248.9	1333.6	1687.2	2655.7	4846.0	7321.9	8820.8	8851.1	8209.9	8076.0	5852.3
72.5°	483.2	553.3	956.0	1411.0	2527.1	5608.6	7587.5	7676.5	6871.1	6229.9	4073.1
75°	144.3	161.1	449.8	751.0	1014.6	2709.1	5136.8	5161.9	4713.2	3885.8	2087.8
77.5°	107.7	119.2	196.6	379.7	355.6	821.1	2657.8	2902.6	2502.0	1388.0	575.3
80°	73.2	86.8	140.2	185.1	131.8	218.6	746.8	820.0	763.6	311.7	144.3
82.5°	32.4	41.8	99.4	93.1	48.1	62.8	230.1	244.8	157.9	94.1	50.2
85°	3.1	4.2	37.7	40.8	17.8	14.6	48.1	48.1	34.5	32.4	20.9
87.5°	0.0	0.0	1.0	2.1	2.1	3.1	4.2	5.2	6.3	8.4	10.5
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°	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5
2.5°	2078.4	2065.8	2081.5	2094.1	2097.2	2074.2	2060.6	2040.7	2036.5	2037.6	2032.3
5°	2106.6	2100.3	2111.8	2098.2	2062.7	1995.7	1938.2	1874.4	1839.9	1820.0	1817.9
7.5°	2158.9	2155.8	2143.2	2081.5	1970.6	1822.1	1678.8	1538.6	1451.8	1420.4	1415.2
10°	2236.3	2230.0	2178.8	2032.3	1796.0	1510.4	1269.8	1069.0	946.6	911.0	867.1
12.5°	2325.2	2312.7	2200.7	1926.7	1532.4	1137.0	836.8	611.9	506.3	474.9	474.9
15°	2411.0	2383.8	2188.2	1752.0	1208.1	739.5	467.6	353.5	321.1	312.7	312.7
17.5°	2498.8	2446.6	2139.0	1513.5	834.7	437.2	311.7	289.7	285.6	286.6	287.6
20°	2581.5	2499.9	2052.2	1226.9	532.4	305.4	279.3	274.0	272.0	274.0	273.0
22.5°	2671.4	2549.1	1920.4	914.2	346.2	275.1	265.7	261.5	259.4	262.5	262.5
25°	2760.3	2584.6	1745.7	615.0	275.1	256.3	251.0	246.9	244.8	245.8	245.8
27.5°	2806.4	2571.0	1516.7	392.2	246.9	237.4	232.2	227.0	223.8	222.8	223.8
30°	2837.7	2529.2	1236.4	279.3	223.8	212.3	207.1	202.9	194.6	189.3	191.4
32.5°	2886.9	2487.3	932.0	234.3	205.0	187.2	178.9	168.4	156.9	151.7	151.7
35°	2945.5	2429.8	653.7	211.3	185.1	166.3	150.6	132.8	119.2	115.1	115.1
37.5°	3022.9	2375.4	435.1	195.6	168.4	148.5	126.6	105.6	91.0	88.9	87.9
40°	3139.0	2329.4	306.5	184.1	153.8	129.7	103.6	81.6	71.1	68.0	68.0
42.5°	3289.6	2282.3	242.7	172.6	141.2	111.9	82.6	64.9	56.5	54.4	53.3
45°	3475.8	2226.9	211.3	162.1	128.7	93.1	65.9	54.4	48.1	46.0	46.0
47.5°	3677.7	2151.6	196.6	148.5	114.0	75.3	55.4	47.1	43.9	42.9	41.8
50°	3876.4	2050.1	184.1	136.0	97.3	61.7	48.1	42.9	40.8	39.7	39.7
52.5°	4050.0	1931.9	168.4	121.3	79.5	53.3	42.9	39.7	37.7	35.6	34.5
55°	4198.6	1803.3	148.5	104.6	64.9	47.1	39.7	36.6	34.5	32.4	31.4
57.5°	4390.0	1730.1	119.2	84.7	53.3	41.8	36.6	33.5	31.4	28.2	28.2
60°	4602.3	1676.7	88.9	66.9	46.0	38.7	33.5	30.3	28.2	25.1	25.1
62.5°	4772.8	1597.2	70.1	54.4	39.7	34.5	30.3	27.2	25.1	22.0	22.0
65°	4837.7	1433.0	57.5	42.9	32.4	30.3	27.2	25.1	22.0	18.8	18.8
67.5°	4544.8	1104.6	48.1	34.5	27.2	26.1	24.1	23.0	18.8	16.7	15.7
70°	3599.2	673.6	39.7	28.2	23.0	22.0	22.0	19.9	16.7	15.7	14.6
72.5°	2466.4	347.3	32.4	23.0	19.9	19.9	18.8	17.8	15.7	14.6	14.6
75°	1281.3	116.1	25.1	17.8	15.7	16.7	16.7	15.7	14.6	14.6	13.6
77.5°	367.1	52.3	18.8	13.6	12.6	12.6	13.6	13.6	13.6	12.6	12.6
80°	95.2	30.3	13.6	10.5	10.5	10.5	10.5	11.5	12.6	11.5	11.5
82.5°	38.7	16.7	9.4	8.4	8.4	8.4	8.4	9.4	10.5	10.5	10.5
85°	24.1	8.4	7.3	7.3	7.3	6.3	6.3	7.3	7.3	8.4	8.4
87.5°	14.6	6.3	6.3	6.3	6.3	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)