

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: P639547

Luminaire Tested: GWS-SA5C-722-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639547  
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-SA5C-722-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

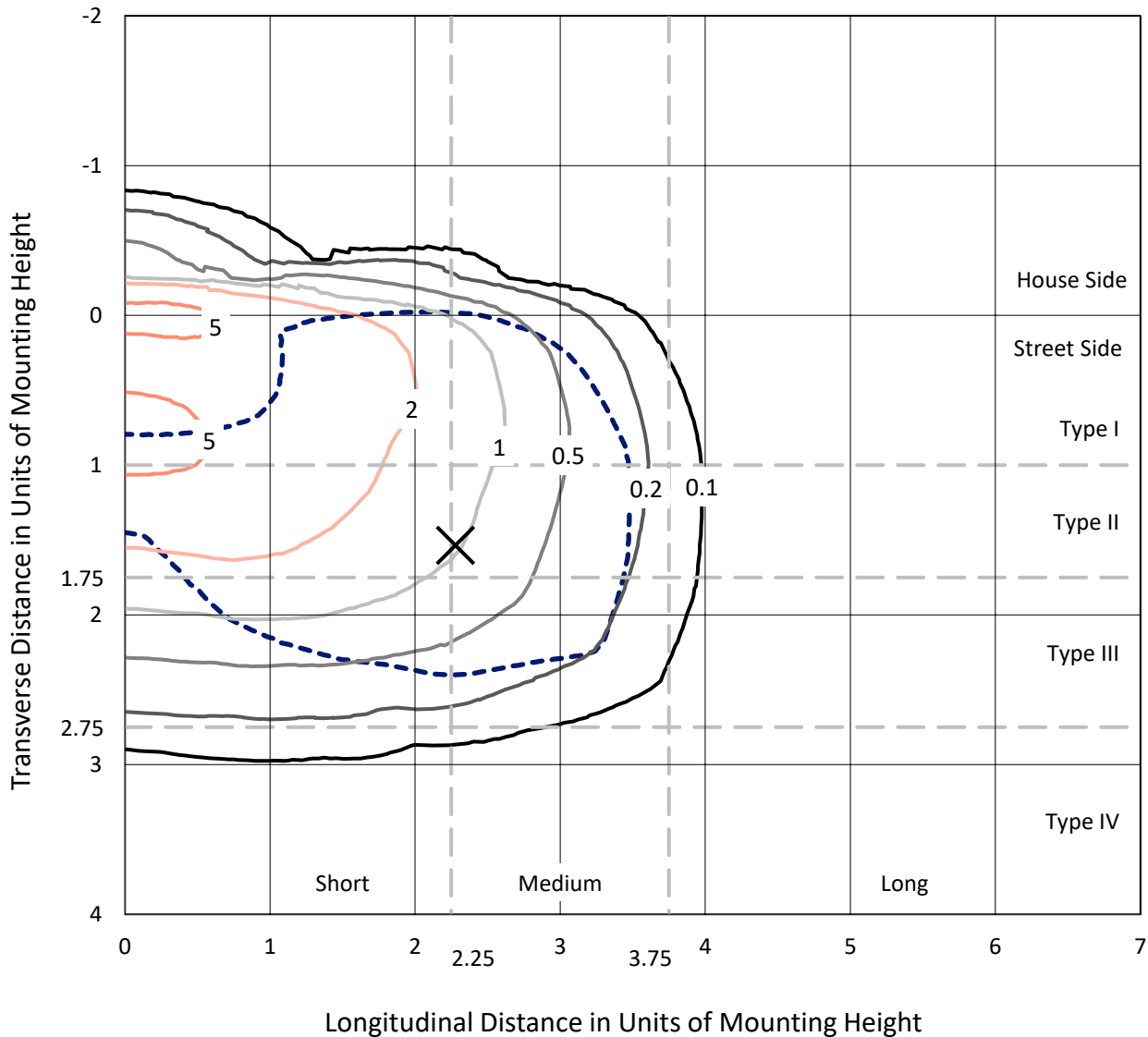
Lumens per Lamp: N/A  
Luminaire Lumens: 13730.9 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

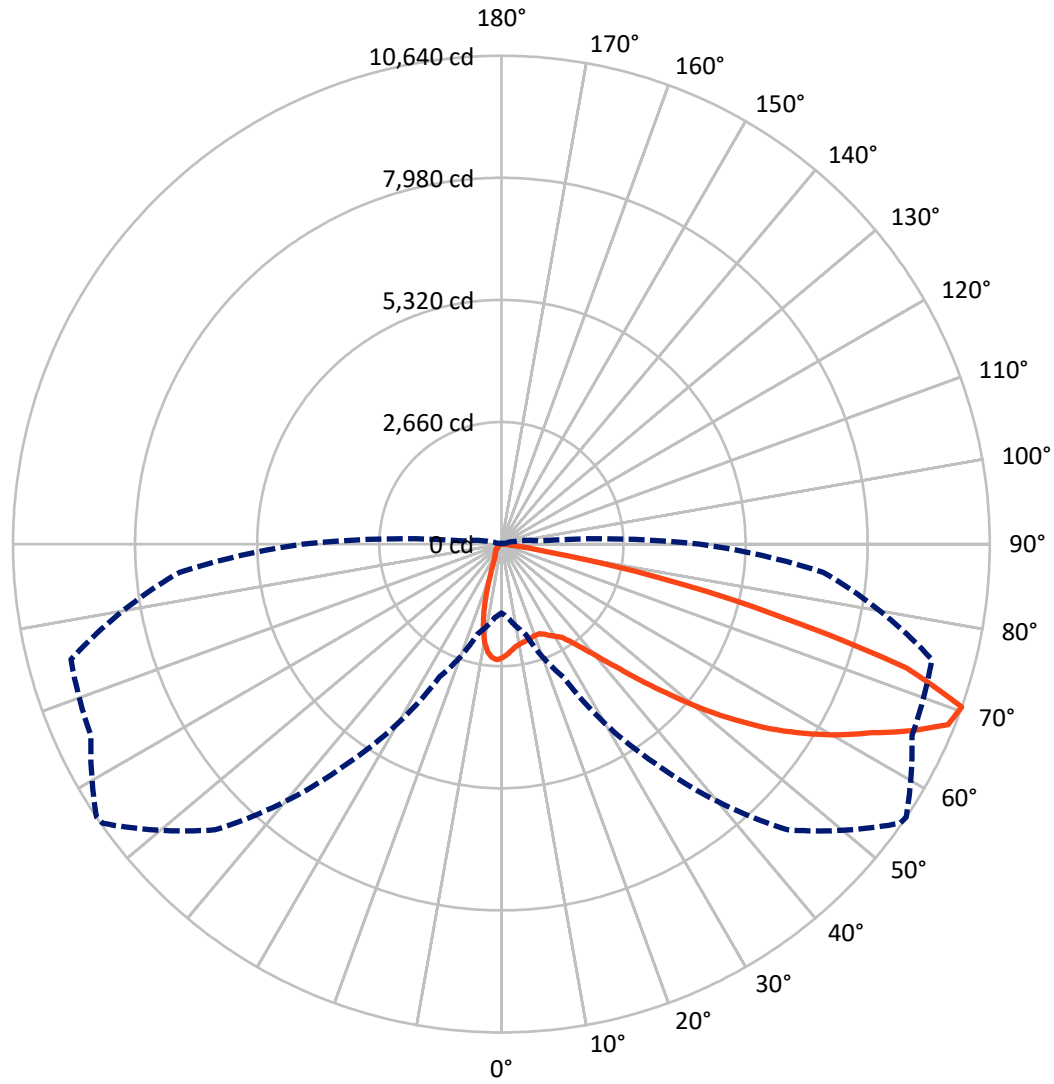
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1233.3	0.0	1233.3
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	12497.6	0.0	12497.6
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	13730.9	0.0	13730.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.6	1.5
10°-20°	478.1	3.5
20°-30°	757.3	5.5
30°-40°	1306.0	9.5
40°-50°	2205.3	16.1
50°-60°	3240.4	23.6
60°-70°	3841.6	28.0
70°-80°	1638.2	11.9
80°-90°	51.4	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°	13730.9	100.0
0°-180°	13730.9	100.0

**Coefficient of Utilization**



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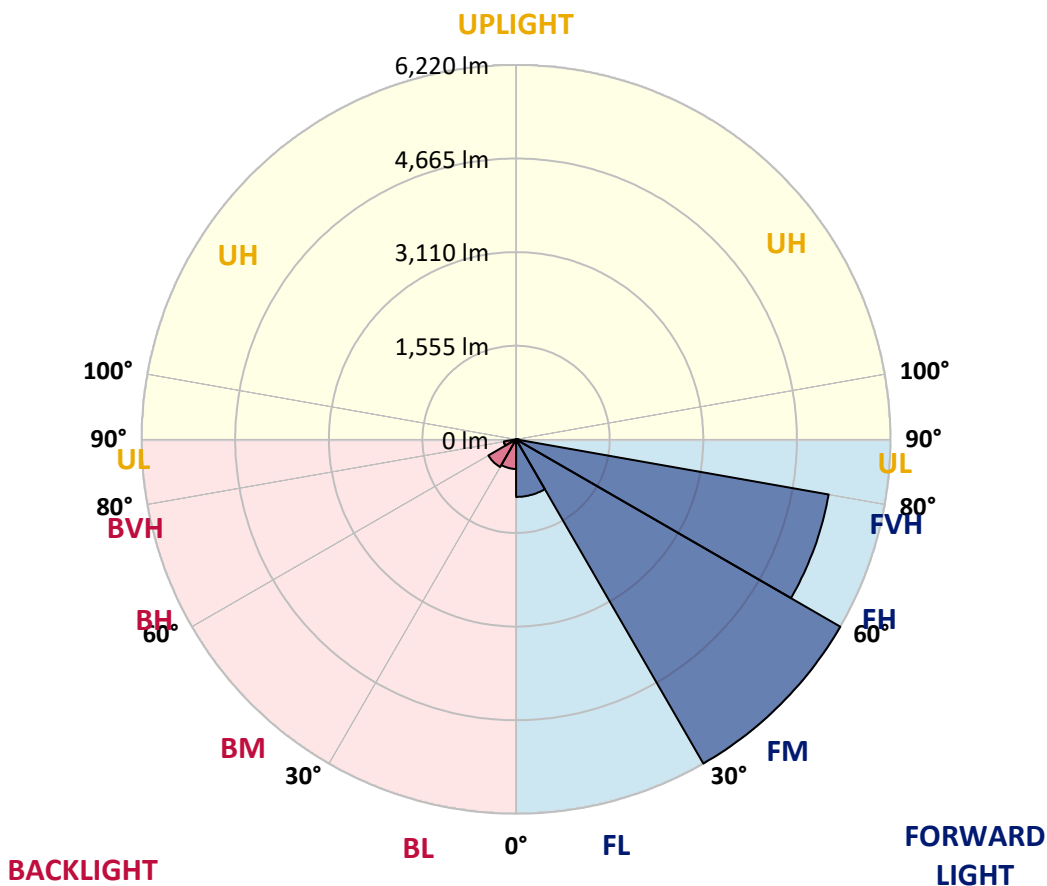
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.8	7.0			
FM (30°-60°)	6220.5	45.3			
FH (60°-80°)	5274.1	38.4			G3/7500
FVH (80°-90°)	46.2	0.3			G1/100
BL (0°-30°)	491.2	3.6	B1/500		
BM (30°-60°)	531.2	3.9	B1/1000		
BH (60°-80°)	205.7	1.5	B1/500		G1/500
BVH (80°-90°)	5.2	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8
2.5°	2304.8	2301.0	2303.6	2322.4	2357.6	2374.0	2401.6	2406.7	2429.3	2458.2	2469.5
5°	2155.2	2142.6	2148.9	2175.3	2215.5	2260.8	2312.4	2326.2	2382.8	2446.9	2494.7
7.5°	2018.1	2004.3	2019.4	2060.9	2117.5	2166.5	2243.2	2252.0	2342.5	2455.7	2542.5
10°	1803.1	1806.9	1837.1	1910.0	1996.8	2098.6	2201.7	2214.3	2326.2	2484.6	2619.2
12.5°	1638.4	1629.6	1662.3	1745.3	1867.2	2015.6	2170.3	2186.6	2327.4	2528.6	2717.2
15°	1561.7	1559.2	1573.0	1633.4	1751.6	1926.3	2141.4	2162.7	2343.8	2568.9	2810.3
17.5°	1564.2	1560.4	1559.2	1594.4	1682.4	1859.7	2109.9	2137.6	2357.6	2612.9	2908.4
20°	1673.6	1656.0	1624.6	1608.2	1661.0	1816.9	2088.5	2120.0	2377.7	2659.4	3012.7
22.5°	1902.4	1908.7	1824.5	1736.5	1711.3	1822.0	2086.0	2122.5	2421.8	2732.3	3141.0
25°	2360.1	2350.1	2194.2	1996.8	1859.7	1879.8	2130.0	2174.0	2508.5	2836.7	3261.7
27.5°	2933.5	2942.3	2728.6	2414.2	2127.5	1999.3	2210.5	2254.5	2609.1	2902.1	3342.2
30°	3558.4	3549.6	3320.8	2972.5	2507.3	2197.9	2291.0	2330.0	2659.4	2937.3	3425.2
32.5°	4149.4	4129.3	3903.0	3538.3	2991.4	2511.0	2401.6	2424.3	2726.0	3014.0	3537.1
35°	4653.6	4652.4	4455.0	4066.4	3489.3	2903.3	2591.5	2610.4	2850.5	3136.0	3701.8
37.5°	5174.2	5156.6	4935.3	4580.7	4001.0	3333.4	2882.0	2874.4	3046.7	3315.8	3904.2
40°	5601.7	5590.4	5420.6	5079.9	4532.9	3808.7	3234.0	3211.4	3279.3	3564.7	4185.9
42.5°	5918.6	5919.8	5867.0	5659.6	5096.2	4358.1	3676.6	3641.4	3640.2	3940.7	4558.1
45°	6158.7	6175.1	6254.3	6222.9	5761.4	4998.2	4243.7	4207.3	4145.6	4428.6	4984.3
47.5°	6270.7	6292.0	6530.9	6656.7	6343.6	5633.1	4918.9	4842.2	4721.5	5077.4	5460.9
50°	6259.3	6297.1	6630.3	7012.5	6871.7	6276.9	5654.5	5618.1	5420.6	5763.9	5932.4
52.5°	6002.8	6083.3	6636.6	7228.8	7277.8	6870.4	6415.3	6347.4	6251.8	6480.6	6375.0
55°	5306.2	5404.3	6371.2	7297.9	7594.7	7388.5	7159.6	7104.3	6945.9	7157.1	6761.0
57.5°	4927.7	5012.0	5813.0	7264.0	7863.8	7867.5	7822.3	7777.0	7646.2	7826.1	7213.7
60°	4700.2	4784.4	5515.0	7139.5	8107.7	8373.0	8444.7	8439.7	8251.1	8586.8	7744.3
62.5°	4366.9	4482.6	5204.4	6816.4	8281.2	8871.0	9087.2	9053.3	8843.3	9378.9	8269.9
65°	3694.2	3794.8	4568.1	6283.2	8179.4	9283.4	9783.8	9801.4	9558.8	10124.6	8684.9
67.5°	2590.2	2664.4	3432.7	5164.1	7487.8	9419.2	10496.8	10495.5	10081.8	10506.8	8501.3
70°	1501.3	1603.2	2028.2	3192.5	5825.5	8801.8	10603.6	10640.1	9869.3	9708.4	7035.1
72.5°	580.9	665.2	1149.3	1696.2	3037.9	6742.2	9121.2	9228.1	8259.9	7489.1	4896.3
75°	173.5	193.6	540.7	902.8	1219.7	3256.7	6175.1	6205.3	5665.8	4671.2	2509.8
77.5°	129.5	143.3	236.4	456.4	427.5	987.1	3195.1	3489.3	3007.7	1668.6	691.6
80°	88.0	104.4	168.5	222.6	158.4	262.8	897.8	985.8	917.9	374.7	173.5
82.5°	39.0	50.3	119.5	111.9	57.8	75.4	276.6	294.2	189.9	113.2	60.4
85°	3.8	5.0	45.3	49.0	21.4	17.6	57.8	57.8	41.5	39.0	25.1
87.5°	0.0	0.0	1.3	2.5	2.5	3.8	5.0	6.3	7.5	10.1	12.6
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°	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8	2475.8
2.5°	2498.5	2483.4	2502.2	2517.3	2521.1	2493.4	2477.1	2453.2	2448.2	2449.4	2443.1
5°	2532.4	2524.9	2538.7	2522.3	2479.6	2399.1	2330.0	2253.3	2211.8	2187.9	2185.4
7.5°	2595.3	2591.5	2576.4	2502.2	2368.9	2190.4	2018.1	1849.6	1745.3	1707.5	1701.3
10°	2688.3	2680.8	2619.2	2443.1	2159.0	1815.7	1526.5	1285.1	1137.9	1095.2	1042.4
12.5°	2795.2	2780.1	2645.6	2316.1	1842.1	1366.8	1005.9	735.6	608.6	570.9	570.9
15°	2898.3	2865.6	2630.5	2106.1	1452.3	889.0	562.1	425.0	386.0	376.0	376.0
17.5°	3003.9	2941.1	2571.4	1819.5	1003.4	525.6	374.7	348.3	343.3	344.5	345.8
20°	3103.3	3005.2	2467.0	1474.9	640.0	367.2	335.7	329.4	326.9	329.4	328.2
22.5°	3211.4	3064.3	2308.6	1099.0	416.2	330.7	319.4	314.3	311.8	315.6	315.6
25°	3318.3	3107.0	2098.6	739.4	330.7	308.1	301.8	296.7	294.2	295.5	295.5
27.5°	3373.6	3090.7	1823.2	471.5	296.7	285.4	279.1	272.9	269.1	267.8	269.1
30°	3411.3	3040.4	1486.2	335.7	269.1	255.3	249.0	243.9	233.9	227.6	230.1
32.5°	3470.4	2990.1	1120.3	281.7	246.5	225.1	215.0	202.4	188.6	182.3	182.3
35°	3540.8	2920.9	785.9	254.0	222.6	199.9	181.1	159.7	143.3	138.3	138.3
37.5°	3633.9	2855.6	523.1	235.1	202.4	178.6	152.1	127.0	109.4	106.9	105.6
40°	3773.5	2800.2	368.4	221.3	184.8	155.9	124.5	98.1	85.5	81.7	81.7
42.5°	3954.5	2743.6	291.7	207.5	169.7	134.5	99.3	78.0	67.9	65.4	64.1
45°	4178.3	2677.0	254.0	194.9	154.7	111.9	79.2	65.4	57.8	55.3	55.3
47.5°	4421.0	2586.5	236.4	178.6	137.1	90.5	66.6	56.6	52.8	51.6	50.3
50°	4659.9	2464.5	221.3	163.5	116.9	74.2	57.8	51.6	49.0	47.8	47.8
52.5°	4868.7	2322.4	202.4	145.9	95.6	64.1	51.6	47.8	45.3	42.8	41.5
55°	5047.2	2167.8	178.6	125.7	78.0	56.6	47.8	44.0	41.5	39.0	37.7
57.5°	5277.3	2079.7	143.3	101.8	64.1	50.3	44.0	40.2	37.7	33.9	33.9
60°	5532.6	2015.6	106.9	80.5	55.3	46.5	40.2	36.5	33.9	30.2	30.2
62.5°	5737.5	1920.0	84.2	65.4	47.8	41.5	36.5	32.7	30.2	26.4	26.4
65°	5815.5	1722.6	69.2	51.6	39.0	36.5	32.7	30.2	26.4	22.6	22.6
67.5°	5463.4	1327.8	57.8	41.5	32.7	31.4	28.9	27.7	22.6	20.1	18.9
70°	4326.7	809.8	47.8	33.9	27.7	26.4	26.4	23.9	20.1	18.9	17.6
72.5°	2964.9	417.5	39.0	27.7	23.9	23.9	22.6	21.4	18.9	17.6	17.6
75°	1540.3	139.6	30.2	21.4	18.9	20.1	20.1	18.9	17.6	17.6	16.3
77.5°	441.3	62.9	22.6	16.3	15.1	15.1	16.3	16.3	16.3	15.1	15.1
80°	114.4	36.5	16.3	12.6	12.6	12.6	12.6	13.8	15.1	13.8	13.8
82.5°	46.5	20.1	11.3	10.1	10.1	10.1	10.1	11.3	12.6	12.6	12.6
85°	28.9	10.1	8.8	8.8	8.8	7.5	7.5	8.8	8.8	10.1	10.1
87.5°	17.6	7.5	7.5	7.5	7.5	6.3	6.3	6.3	6.3	6.3	6.3
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)