

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: P633882

Luminaire Tested: GWS-SA2F-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633882
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-SA2F-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12990.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

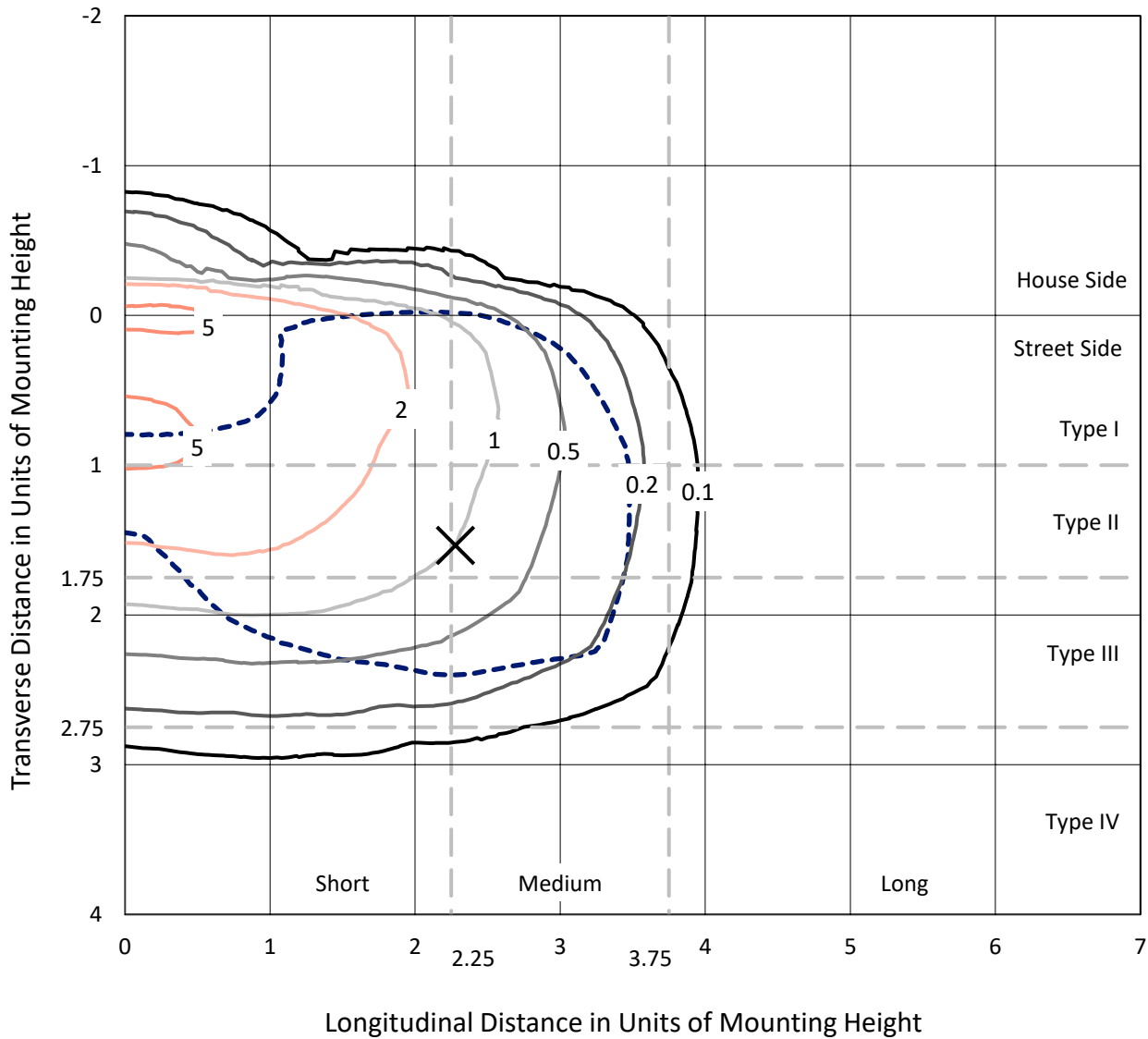
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

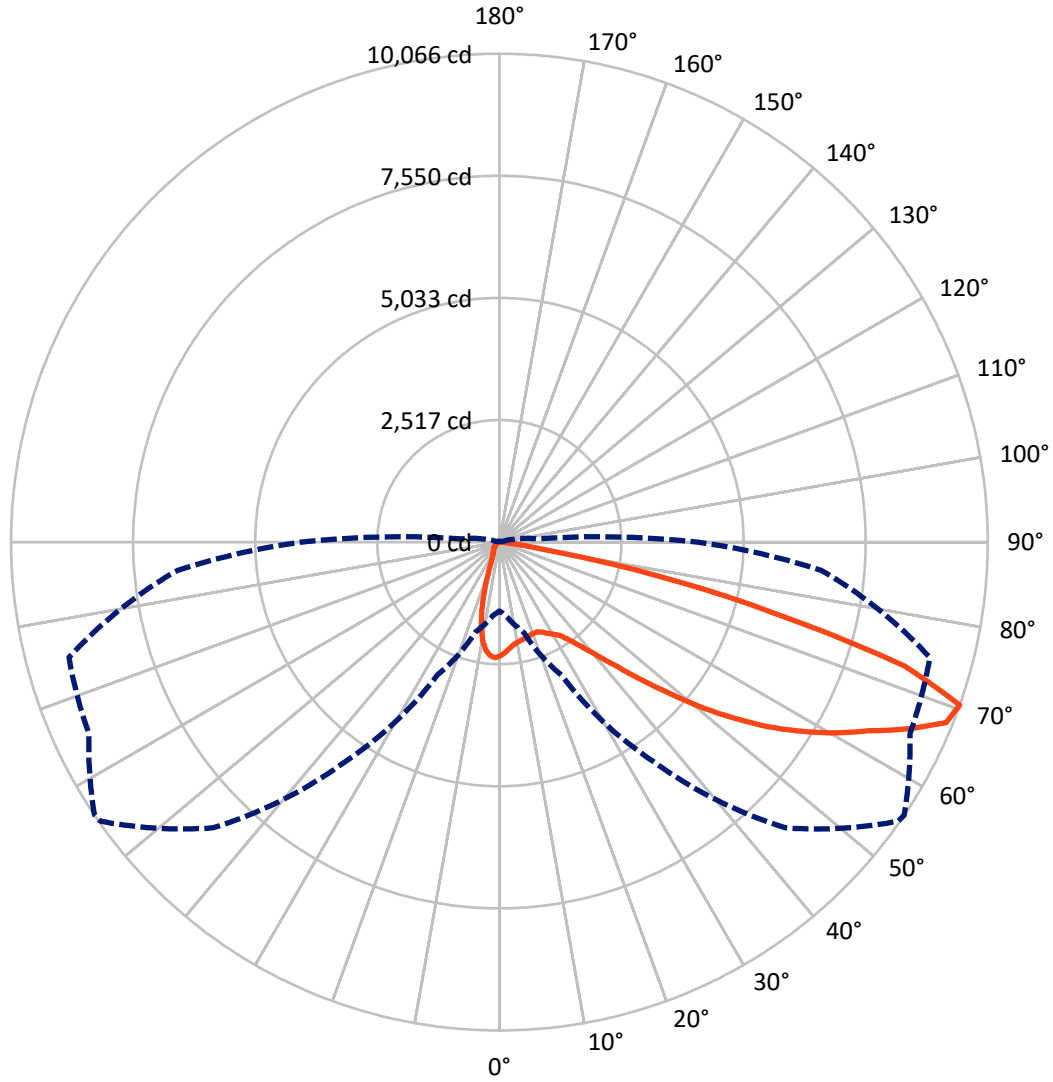
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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
House Side	Lumens	1166.8	0.0	1166.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	11823.6	0.0	11823.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	12990.4	0.0	12990.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	1.5
10°-20°	452.3	3.5
20°-30°	716.5	5.5
30°-40°	1235.5	9.5
40°-50°	2086.4	16.1
50°-60°	3065.6	23.6
60°-70°	3634.4	28.0
70°-80°	1549.9	11.9
80°-90°	48.7	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°	12990.4	100.0
0°-180°	12990.4	100.0

Coefficient of Utilization



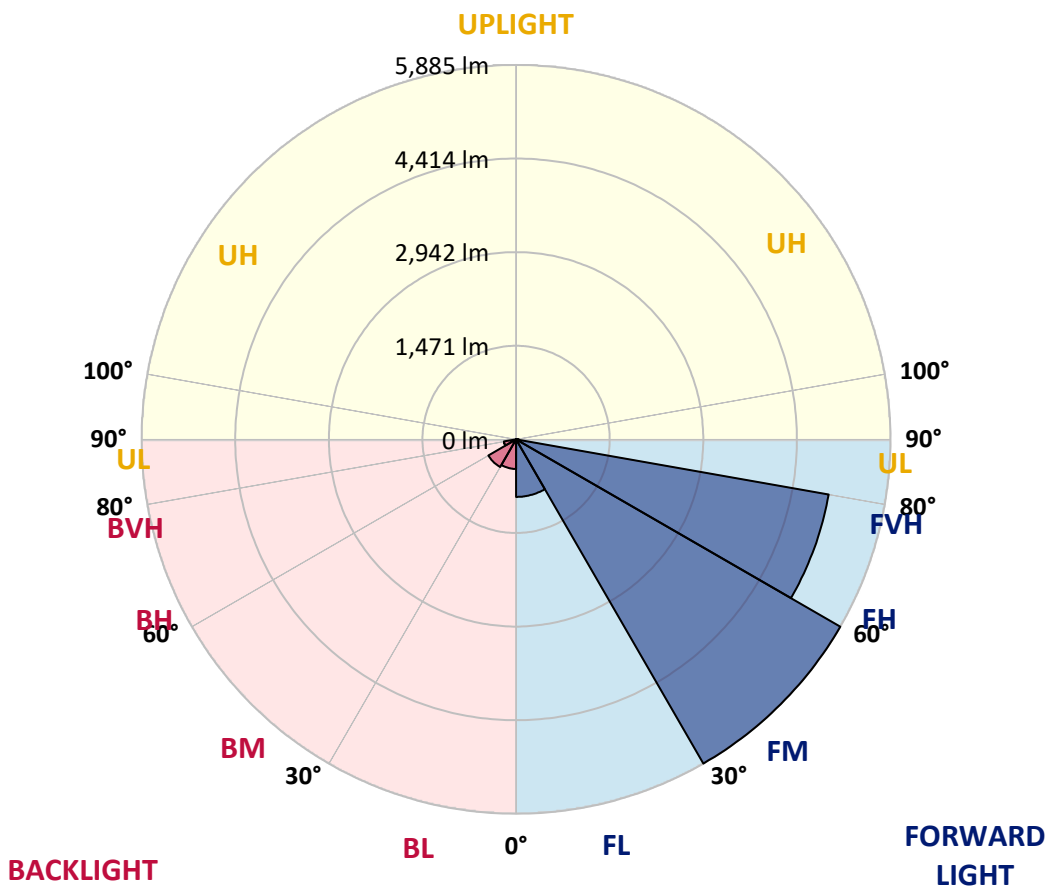
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.2	7.0			
FM (30°-60°)	5885.0	45.3			
FH (60°-80°)	4989.7	38.4			G2/5000
FVH (80°-90°)	43.7	0.3			G1/100
BL (0°-30°)	464.7	3.6	B1/500		
BM (30°-60°)	502.6	3.9	B1/1000		
BH (60°-80°)	194.6	1.5	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3
2.5°	2180.5	2176.9	2179.3	2197.2	2230.5	2245.9	2272.1	2276.9	2298.3	2325.6	2336.4
5°	2039.0	2027.1	2033.0	2058.0	2096.1	2138.9	2187.7	2200.7	2254.3	2314.9	2360.1
7.5°	1909.3	1896.2	1910.5	1949.7	2003.3	2049.7	2122.2	2130.6	2216.2	2323.3	2405.3
10°	1705.9	1709.4	1738.0	1807.0	1889.1	1985.4	2083.0	2094.9	2200.7	2350.6	2477.9
12.5°	1550.0	1541.7	1572.6	1651.1	1766.5	1906.9	2053.2	2068.7	2201.9	2392.3	2570.7
15°	1477.5	1475.1	1488.2	1545.3	1657.1	1822.4	2025.9	2046.1	2217.4	2430.3	2658.7
17.5°	1479.8	1476.3	1475.1	1508.4	1591.7	1759.4	1996.1	2022.3	2230.5	2472.0	2751.5
20°	1583.3	1566.7	1536.9	1521.5	1571.4	1719.0	1975.9	2005.6	2249.5	2516.0	2850.3
22.5°	1799.8	1805.8	1726.1	1642.8	1619.0	1723.7	1973.5	2008.0	2291.1	2585.0	2971.6
25°	2232.9	2223.3	2075.8	1889.1	1759.4	1778.4	2015.2	2056.8	2373.2	2683.7	3085.8
27.5°	2775.3	2783.6	2581.4	2284.0	2012.8	1891.4	2091.3	2132.9	2468.4	2745.6	3161.9
30°	3366.5	3358.2	3141.7	2812.2	2372.0	2079.4	2167.4	2204.3	2516.0	2778.9	3240.4
32.5°	3925.6	3906.6	3692.5	3347.5	2830.0	2375.6	2272.1	2293.5	2579.0	2851.4	3346.3
35°	4402.7	4401.5	4214.7	3847.1	3301.1	2746.8	2451.7	2469.6	2696.8	2966.8	3502.1
37.5°	4895.2	4878.5	4669.1	4333.7	3785.3	3153.6	2726.5	2719.4	2882.4	3136.9	3693.7
40°	5299.6	5288.9	5128.3	4805.9	4288.5	3603.3	3059.6	3038.2	3102.4	3372.5	3960.1
42.5°	5599.4	5600.6	5550.6	5354.3	4821.4	4123.1	3478.4	3445.0	3443.9	3728.2	4312.3
45°	5826.6	5842.1	5917.0	5887.3	5450.7	4728.6	4014.9	3980.4	3922.1	4189.7	4715.5
47.5°	5932.5	5952.7	6178.7	6297.7	6001.5	5329.4	4653.7	4581.1	4466.9	4803.6	5166.4
50°	5921.8	5957.5	6272.7	6634.3	6501.1	5938.4	5349.6	5315.1	5128.3	5453.1	5612.5
52.5°	5679.1	5755.2	6278.6	6838.9	6885.3	6499.9	6069.3	6005.0	5914.6	6131.1	6031.2
55°	5020.1	5112.9	6027.6	6904.4	7185.1	6990.0	6773.5	6721.2	6571.3	6771.1	6396.4
57.5°	4662.0	4741.7	5499.5	6872.3	7439.7	7443.3	7400.4	7357.6	7233.9	7404.0	6824.7
60°	4446.7	4526.4	5217.5	6754.5	7670.5	7921.5	7989.3	7984.5	7806.1	8123.7	7326.7
62.5°	4131.4	4240.9	4923.7	6448.8	7834.6	8392.5	8597.2	8565.0	8366.4	8873.1	7823.9
65°	3495.0	3590.2	4321.8	5944.4	7738.3	8782.7	9256.2	9272.8	9043.3	9578.6	8216.5
67.5°	2450.6	2520.7	3247.6	4885.6	7084.0	8911.2	9930.7	9929.5	9538.1	9940.2	8042.8
70°	1420.4	1516.7	1918.8	3020.4	5511.4	8327.1	10031.8	10066.3	9337.1	9184.8	6655.7
72.5°	549.6	629.3	1087.3	1604.8	2874.0	6378.6	8629.3	8730.4	7814.4	7085.2	4632.3
75°	164.2	183.2	511.5	854.1	1153.9	3081.0	5842.1	5870.6	5360.3	4419.3	2374.4
77.5°	122.5	135.6	223.6	431.8	404.5	933.8	3022.7	3301.1	2845.5	1578.6	654.3
80°	83.3	98.7	159.4	210.6	149.9	248.6	849.4	932.6	868.4	354.5	164.2
82.5°	36.9	47.6	113.0	105.9	54.7	71.4	261.7	278.4	179.6	107.1	57.1
85°	3.6	4.8	42.8	46.4	20.2	16.7	54.7	54.7	39.3	36.9	23.8
87.5°	0.0	0.0	1.2	2.4	2.4	3.6	4.8	5.9	7.1	9.5	11.9
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°	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3	2342.3
2.5°	2363.7	2349.4	2367.3	2381.6	2385.1	2359.0	2343.5	2320.9	2316.1	2317.3	2311.4
5°	2395.8	2388.7	2401.8	2386.3	2345.9	2269.7	2204.3	2131.7	2092.5	2069.9	2067.5
7.5°	2455.3	2451.7	2437.5	2367.3	2241.2	2072.3	1909.3	1749.9	1651.1	1615.5	1609.5
10°	2543.3	2536.2	2477.9	2311.4	2042.5	1717.8	1444.2	1215.8	1076.6	1036.1	986.2
12.5°	2644.5	2630.2	2502.9	2191.2	1742.7	1293.1	951.7	695.9	575.8	540.1	540.1
15°	2742.0	2711.1	2488.6	1992.6	1374.0	841.0	531.7	402.1	365.2	355.7	355.7
17.5°	2841.9	2782.4	2432.7	1721.3	949.3	497.2	354.5	329.5	324.8	325.9	327.1
20°	2935.9	2843.1	2334.0	1395.4	605.5	347.4	317.6	311.7	309.3	311.7	310.5
22.5°	3038.2	2899.0	2184.1	1039.7	393.8	312.9	302.2	297.4	295.0	298.6	298.6
25°	3139.3	2939.5	1985.4	699.5	312.9	291.4	285.5	280.7	278.4	279.6	279.6
27.5°	3191.7	2924.0	1724.9	446.1	280.7	270.0	264.1	258.1	254.6	253.4	254.6
30°	3227.4	2876.4	1406.1	317.6	254.6	241.5	235.5	230.8	221.3	215.3	217.7
32.5°	3283.3	2828.8	1059.9	266.5	233.2	212.9	203.4	191.5	178.4	172.5	172.5
35°	3349.9	2763.4	743.5	240.3	210.6	189.1	171.3	151.1	135.6	130.9	130.9
37.5°	3437.9	2701.6	494.9	222.5	191.5	168.9	143.9	120.1	103.5	101.1	99.9
40°	3570.0	2649.2	348.5	209.4	174.9	147.5	117.8	92.8	80.9	77.3	77.3
42.5°	3741.3	2595.7	276.0	196.3	160.6	127.3	94.0	73.8	64.2	61.9	60.7
45°	3953.0	2532.6	240.3	184.4	146.3	105.9	74.9	61.9	54.7	52.3	52.3
47.5°	4182.6	2447.0	223.6	168.9	129.7	85.7	63.0	53.5	50.0	48.8	47.6
50°	4408.6	2331.6	209.4	154.6	110.6	70.2	54.7	48.8	46.4	45.2	45.2
52.5°	4606.1	2197.2	191.5	138.0	90.4	60.7	48.8	45.2	42.8	40.4	39.3
55°	4775.0	2050.9	168.9	119.0	73.8	53.5	45.2	41.6	39.3	36.9	35.7
57.5°	4992.7	1967.6	135.6	96.4	60.7	47.6	41.6	38.1	35.7	32.1	32.1
60°	5234.2	1906.9	101.1	76.1	52.3	44.0	38.1	34.5	32.1	28.6	28.6
62.5°	5428.1	1816.5	79.7	61.9	45.2	39.3	34.5	30.9	28.6	25.0	25.0
65°	5501.8	1629.7	65.4	48.8	36.9	34.5	30.9	28.6	25.0	21.4	21.4
67.5°	5168.8	1256.2	54.7	39.3	30.9	29.7	27.4	26.2	21.4	19.0	17.8
70°	4093.4	766.1	45.2	32.1	26.2	25.0	25.0	22.6	19.0	17.8	16.7
72.5°	2805.0	394.9	36.9	26.2	22.6	22.6	21.4	20.2	17.8	16.7	16.7
75°	1457.2	132.0	28.6	20.2	17.8	19.0	19.0	17.8	16.7	16.7	15.5
77.5°	417.5	59.5	21.4	15.5	14.3	14.3	15.5	15.5	15.5	14.3	14.3
80°	108.3	34.5	15.5	11.9	11.9	11.9	11.9	13.1	14.3	13.1	13.1
82.5°	44.0	19.0	10.7	9.5	9.5	9.5	9.5	10.7	11.9	11.9	11.9
85°	27.4	9.5	8.3	8.3	8.3	7.1	7.1	8.3	8.3	9.5	9.5
87.5°	16.7	7.1	7.1	7.1	7.1	5.9	5.9	5.9	5.9	5.9	5.9
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)