

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: P633827

Luminaire Tested: GWS-SA2F-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633827
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-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: 12699.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

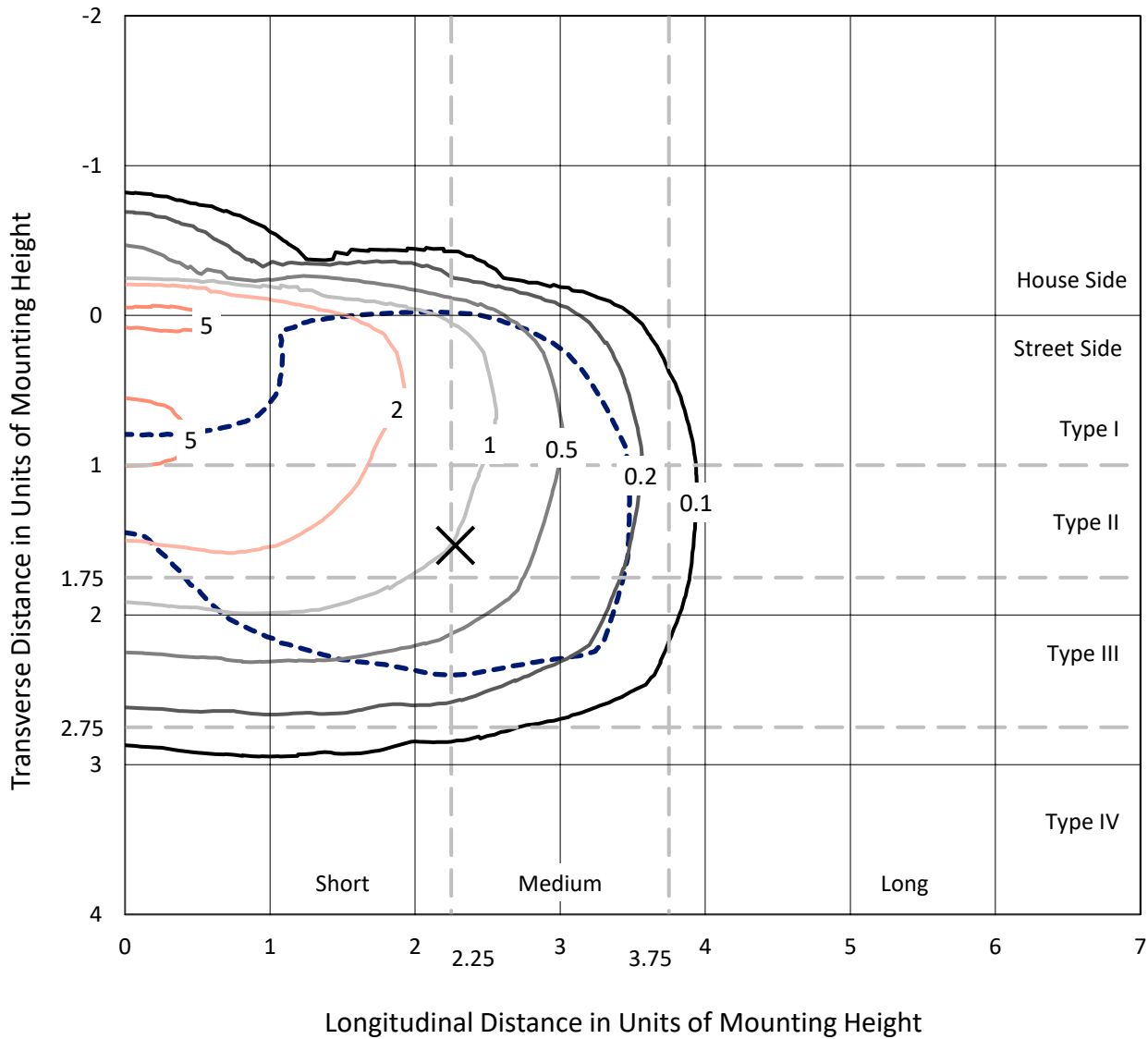
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

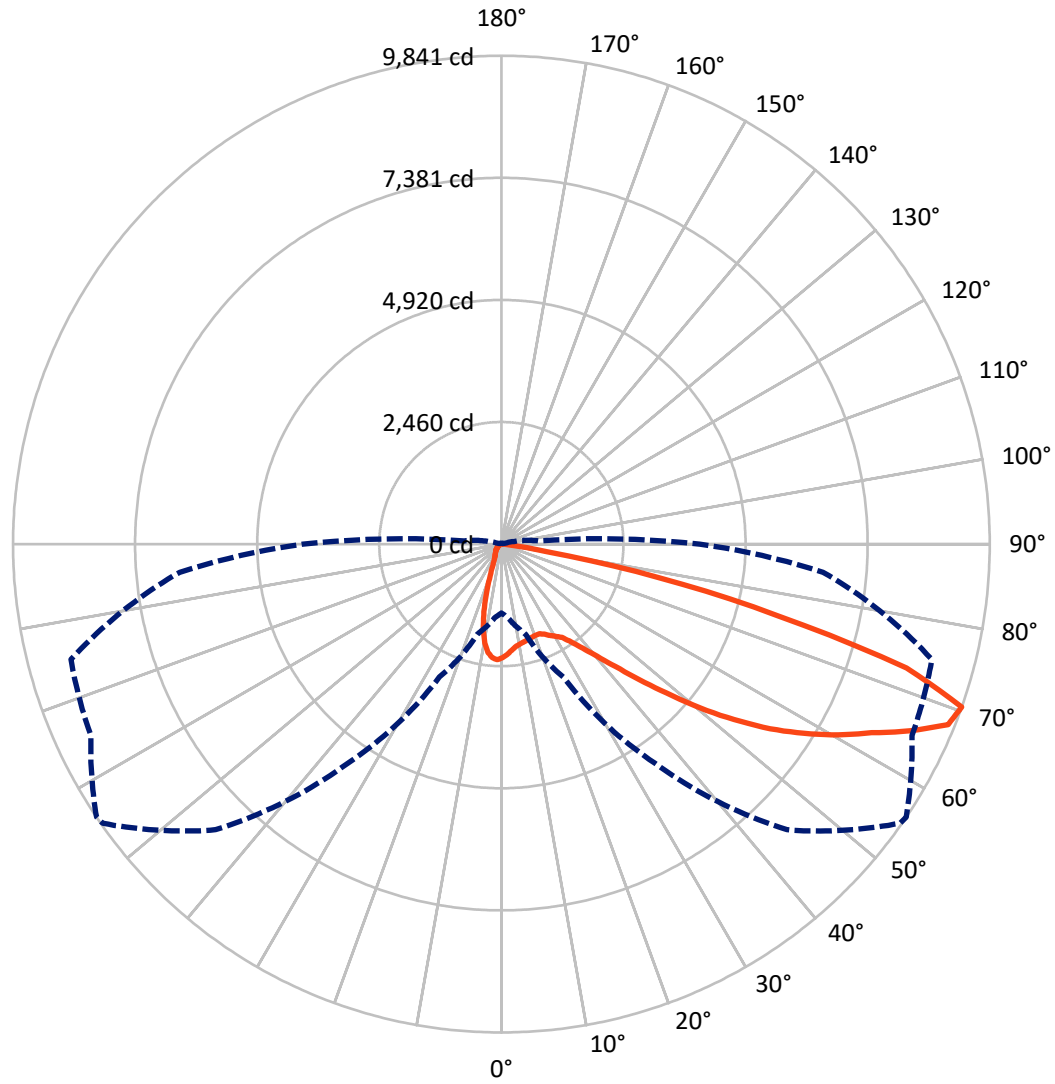
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	1140.6	0.0	1140.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	11558.8	0.0	11558.8
	% Fixture	91.0	0.0	91.0
Total	Lumens	12699.4	0.0	12699.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.5
10°-20°	442.2	3.5
20°-30°	700.4	5.5
30°-40°	1207.9	9.5
40°-50°	2039.7	16.1
50°-60°	2996.9	23.6
60°-70°	3553.0	28.0
70°-80°	1515.1	11.9
80°-90°	47.6	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°	12699.4	100.0
0°-180°	12699.4	100.0

Coefficient of Utilization



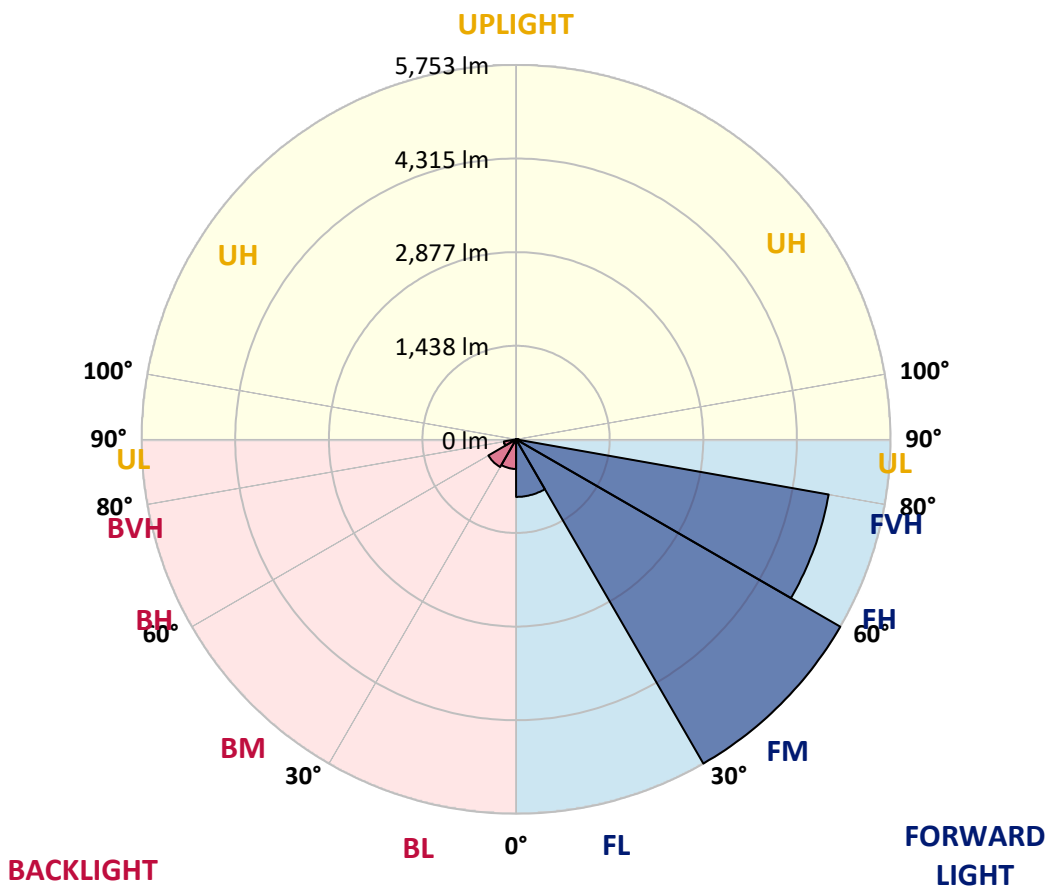
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.9	7.0			
FM (30°-60°)	5753.2	45.3			
FH (60°-80°)	4877.9	38.4			G2/5000
FVH (80°-90°)	42.7	0.3			G1/100
BL (0°-30°)	454.3	3.6	B1/500		
BM (30°-60°)	491.3	3.9	B1/1000		
BH (60°-80°)	190.2	1.5	B1/500		G1/500
BVH (80°-90°)	4.8	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°	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8
2.5°	2131.7	2128.2	2130.5	2148.0	2180.5	2195.6	2221.2	2225.9	2246.8	2273.5	2284.0
5°	1993.3	1981.7	1987.5	2011.9	2049.1	2091.0	2138.6	2151.4	2203.8	2263.1	2307.3
7.5°	1866.5	1853.7	1867.7	1906.1	1958.4	2003.7	2074.7	2082.8	2166.6	2271.2	2351.5
10°	1667.7	1671.1	1699.1	1766.5	1846.7	1940.9	2036.3	2047.9	2151.4	2298.0	2422.4
12.5°	1515.3	1507.2	1537.4	1614.2	1727.0	1864.2	2007.2	2022.4	2152.6	2338.7	2513.1
15°	1444.4	1442.0	1454.8	1510.7	1620.0	1781.6	1980.5	2000.3	2167.7	2375.9	2599.2
17.5°	1446.7	1443.2	1442.0	1474.6	1556.0	1720.0	1951.4	1977.0	2180.5	2416.6	2689.9
20°	1547.9	1531.6	1502.5	1487.4	1536.2	1680.4	1931.6	1960.7	2199.1	2459.6	2786.4
22.5°	1759.5	1765.3	1687.4	1606.0	1582.8	1685.1	1929.3	1963.0	2239.8	2527.1	2905.0
25°	2182.8	2173.5	2029.3	1846.7	1720.0	1738.6	1970.0	2010.7	2320.1	2623.6	3016.7
27.5°	2713.1	2721.3	2523.6	2232.8	1967.7	1849.1	2044.4	2085.2	2413.1	2684.1	3091.1
30°	3291.1	3283.0	3071.3	2749.2	2318.9	2032.8	2118.9	2154.9	2459.6	2716.6	3167.8
32.5°	3837.7	3819.1	3609.8	3272.5	2766.6	2322.4	2221.2	2242.1	2521.3	2787.6	3271.4
35°	4304.0	4302.9	4120.3	3760.9	3227.2	2685.2	2396.8	2414.3	2636.4	2900.4	3423.7
37.5°	4785.5	4769.2	4564.5	4236.6	3700.5	3083.0	2665.5	2658.5	2817.8	3066.7	3610.9
40°	5180.9	5170.4	5013.4	4698.3	4192.4	3522.5	2991.1	2970.1	3032.9	3296.9	3871.4
42.5°	5474.0	5475.1	5426.3	5234.4	4713.4	4030.8	3400.4	3367.9	3366.7	3644.7	4215.7
45°	5696.1	5711.2	5784.5	5755.4	5328.6	4622.7	3924.9	3891.2	3834.2	4095.9	4609.9
47.5°	5799.6	5819.4	6040.3	6156.6	5867.0	5210.0	4549.4	4478.5	4366.8	4696.0	5050.7
50°	5789.1	5824.0	6132.2	6485.7	6355.5	5805.4	5229.7	5196.0	5013.4	5330.9	5486.8
52.5°	5551.9	5626.3	6138.0	6685.7	6731.1	6354.3	5933.3	5870.5	5782.1	5993.8	5896.1
55°	4907.6	4998.3	5892.6	6749.7	7024.2	6833.4	6621.8	6570.6	6424.1	6619.5	6253.1
57.5°	4557.6	4635.5	5376.3	6718.3	7273.0	7276.5	7234.7	7192.8	7071.8	7238.1	6671.8
60°	4347.1	4425.0	5100.7	6603.2	7498.6	7744.0	7810.3	7805.7	7631.2	7941.7	7162.5
62.5°	4038.9	4145.9	4813.4	6304.3	7659.1	8204.5	8404.6	8373.2	8179.0	8674.4	7648.7
65°	3416.7	3509.8	4225.0	5811.2	7564.9	8586.0	9048.8	9065.1	8840.7	9364.0	8032.4
67.5°	2395.7	2464.3	3174.8	4776.2	6925.3	8711.6	9708.2	9707.1	9324.5	9717.5	7862.6
70°	1388.6	1482.7	1875.8	2952.7	5387.9	8140.6	9807.1	9840.8	9127.9	8979.1	6506.7
72.5°	537.3	615.2	1062.9	1568.8	2809.7	6235.7	8436.0	8534.8	7639.4	6926.5	4528.5
75°	160.5	179.1	500.1	835.0	1128.1	3012.0	5711.2	5739.1	5240.2	4320.3	2321.2
77.5°	119.8	132.6	218.6	422.1	395.4	912.9	2955.0	3227.2	2781.8	1543.2	639.6
80°	81.4	96.5	155.8	205.8	146.5	243.1	830.3	911.7	848.9	346.6	160.5
82.5°	36.1	46.5	110.5	103.5	53.5	69.8	255.8	272.1	175.6	104.7	55.8
85°	3.5	4.7	41.9	45.4	19.8	16.3	53.5	53.5	38.4	36.1	23.3
87.5°	0.0	0.0	1.2	2.3	2.3	3.5	4.7	5.8	7.0	9.3	11.6
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°	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8	2289.8
2.5°	2310.8	2296.8	2314.3	2328.2	2331.7	2306.1	2291.0	2268.9	2264.2	2265.4	2259.6
5°	2342.2	2335.2	2348.0	2332.9	2293.3	2218.9	2154.9	2084.0	2045.6	2023.5	2021.2
7.5°	2400.3	2396.8	2382.9	2314.3	2191.0	2025.8	1866.5	1710.7	1614.2	1579.3	1573.5
10°	2486.4	2479.4	2422.4	2259.6	1996.8	1679.3	1411.8	1188.5	1052.5	1012.9	964.1
12.5°	2585.2	2571.3	2446.8	2142.1	1703.7	1264.1	930.4	680.3	562.9	528.0	528.0
15°	2680.6	2650.3	2432.9	1947.9	1343.2	822.2	519.8	393.1	357.0	347.7	347.7
17.5°	2778.3	2720.1	2378.2	1682.8	928.0	486.1	346.6	322.1	317.5	318.6	319.8
20°	2870.1	2779.4	2281.7	1364.1	591.9	339.6	310.5	304.7	302.4	304.7	303.5
22.5°	2970.1	2834.1	2135.2	1016.4	384.9	305.9	295.4	290.7	288.4	291.9	291.9
25°	3069.0	2873.6	1940.9	683.8	305.9	284.9	279.1	274.5	272.1	273.3	273.3
27.5°	3120.2	2858.5	1686.3	436.1	274.5	264.0	258.2	252.4	248.9	247.7	248.9
30°	3155.1	2812.0	1374.6	310.5	248.9	236.1	230.3	225.6	216.3	210.5	212.8
32.5°	3209.7	2765.5	1036.2	260.5	227.9	208.2	198.9	187.2	174.4	168.6	168.6
35°	3274.8	2701.5	726.8	234.9	205.8	184.9	167.5	147.7	132.6	127.9	127.9
37.5°	3360.9	2641.0	483.8	217.5	187.2	165.1	140.7	117.5	101.2	98.8	97.7
40°	3490.0	2589.9	340.7	204.7	171.0	144.2	115.1	90.7	79.1	75.6	75.6
42.5°	3657.4	2537.5	269.8	191.9	157.0	124.4	91.9	72.1	62.8	60.5	59.3
45°	3864.5	2475.9	234.9	180.3	143.0	103.5	73.3	60.5	53.5	51.2	51.2
47.5°	4088.9	2392.2	218.6	165.1	126.8	83.7	61.6	52.3	48.8	47.7	46.5
50°	4309.9	2279.4	204.7	151.2	108.2	68.6	53.5	47.7	45.4	44.2	44.2
52.5°	4502.9	2148.0	187.2	134.9	88.4	59.3	47.7	44.2	41.9	39.5	38.4
55°	4668.0	2004.9	165.1	116.3	72.1	52.3	44.2	40.7	38.4	36.1	34.9
57.5°	4880.9	1923.5	132.6	94.2	59.3	46.5	40.7	37.2	34.9	31.4	31.4
60°	5116.9	1864.2	98.8	74.4	51.2	43.0	37.2	33.7	31.4	27.9	27.9
62.5°	5306.5	1775.8	77.9	60.5	44.2	38.4	33.7	30.2	27.9	24.4	24.4
65°	5378.6	1593.2	64.0	47.7	36.1	33.7	30.2	27.9	24.4	20.9	20.9
67.5°	5053.0	1228.1	53.5	38.4	30.2	29.1	26.7	25.6	20.9	18.6	17.4
70°	4001.7	748.9	44.2	31.4	25.6	24.4	24.4	22.1	18.6	17.4	16.3
72.5°	2742.2	386.1	36.1	25.6	22.1	22.1	20.9	19.8	17.4	16.3	16.3
75°	1424.6	129.1	27.9	19.8	17.4	18.6	18.6	17.4	16.3	16.3	15.1
77.5°	408.2	58.1	20.9	15.1	14.0	14.0	15.1	15.1	15.1	14.0	14.0
80°	105.8	33.7	15.1	11.6	11.6	11.6	11.6	12.8	14.0	12.8	12.8
82.5°	43.0	18.6	10.5	9.3	9.3	9.3	9.3	10.5	11.6	11.6	11.6
85°	26.7	9.3	8.1	8.1	8.1	7.0	7.0	8.1	8.1	9.3	9.3
87.5°	16.3	7.0	7.0	7.0	7.0	5.8	5.8	5.8	5.8	5.8	5.8
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)