

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: P637335

Luminaire Tested: GWS-SA4C-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14873.7 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

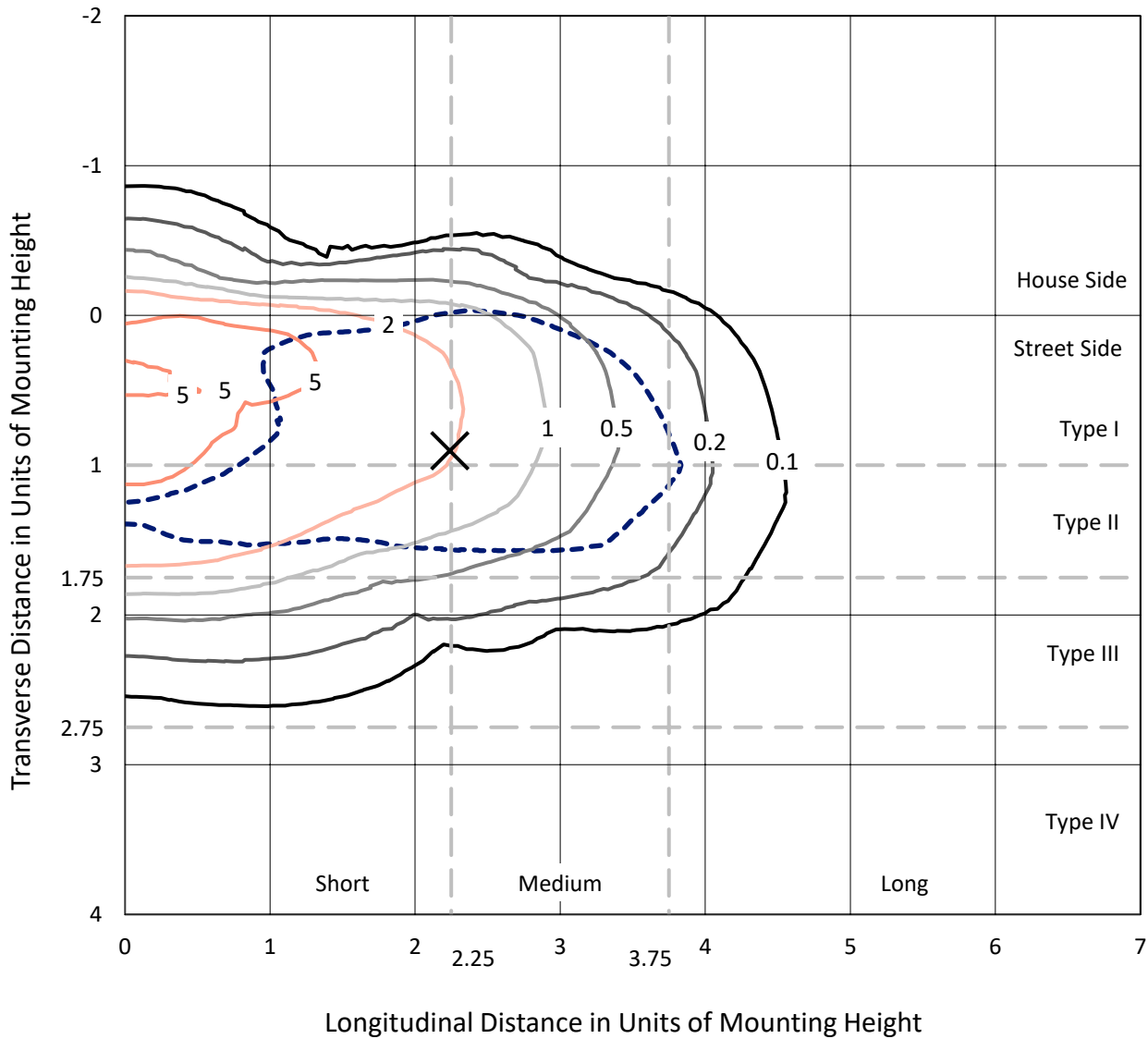
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

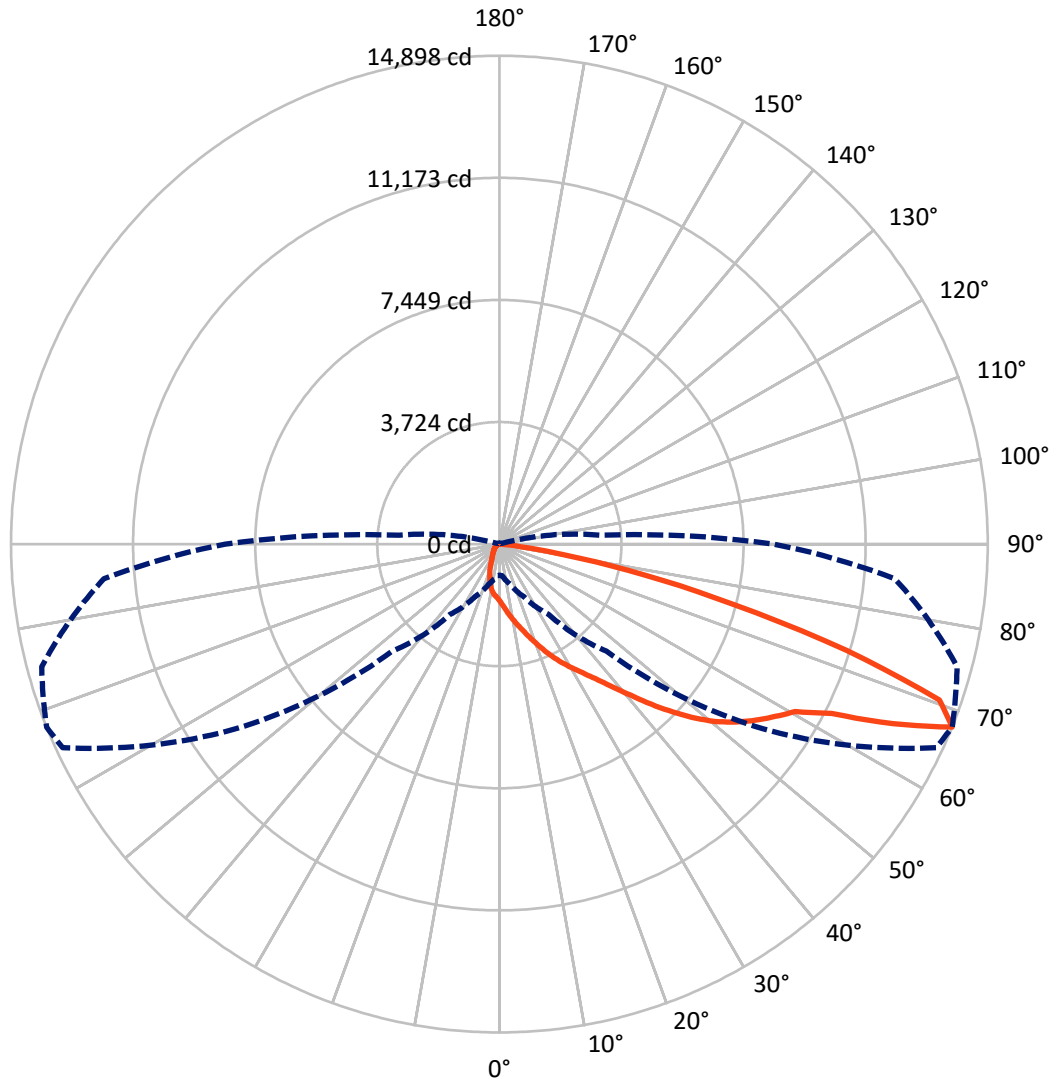
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1074.1	0.0	1074.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13799.6	0.0	13799.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	14873.7	0.0	14873.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	1.1
10°-20°	484.8	3.3
20°-30°	833.1	5.6
30°-40°	1448.5	9.7
40°-50°	2527.4	17.0
50°-60°	3812.0	25.6
60°-70°	3822.5	25.7
70°-80°	1686.5	11.3
80°-90°	90.1	0.6
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°	14873.7	100.0
0°-180°	14873.7	100.0

Coefficient of Utilization



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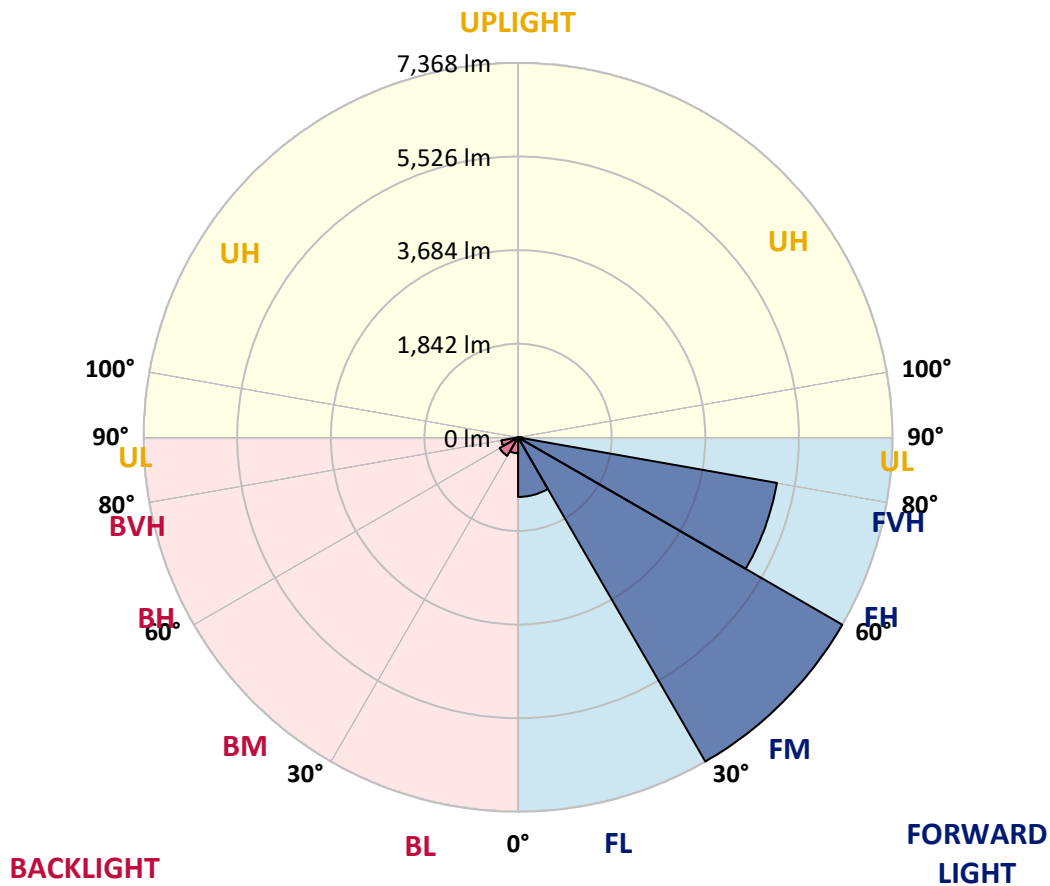
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.5	7.9			
FM (30°-60°)	7368.4	49.5			
FH (60°-80°)	5173.8	34.8			G3/7500
FVH (80°-90°)	85.0	0.6			G1/100
BL (0°-30°)	314.2	2.1	B1/500		
BM (30°-60°)	419.5	2.8	B1/1000		
BH (60°-80°)	335.2	2.3	B1/500		G1/500
BVH (80°-90°)	5.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	2015.6	2028.4	2015.6	2018.5	1981.4	1964.4	1927.4	1876.1	1863.3	1830.6	1780.7
5°	2261.9	2273.3	2260.4	2257.6	2214.9	2183.6	2122.4	2034.1	2008.5	1944.4	1846.2
7.5°	2395.7	2402.8	2407.1	2414.2	2398.5	2372.9	2317.4	2207.8	2180.7	2076.8	1938.7
10°	2409.9	2415.6	2437.0	2479.7	2511.0	2526.6	2495.3	2394.3	2351.5	2250.5	2052.6
12.5°	2370.1	2378.6	2412.8	2483.9	2570.8	2650.5	2670.4	2582.1	2543.7	2414.2	2186.4
15°	2317.4	2324.5	2371.5	2468.3	2599.2	2745.8	2828.4	2790.0	2747.3	2612.0	2334.5
17.5°	2236.2	2246.2	2311.7	2442.6	2612.0	2821.3	2999.2	3012.0	2982.1	2835.5	2498.2
20°	2190.7	2197.8	2256.2	2391.4	2603.5	2876.8	3158.6	3279.6	3246.9	3093.2	2686.1
22.5°	2229.1	2234.8	2273.3	2378.6	2575.0	2908.1	3306.7	3547.2	3528.7	3369.3	2883.9
25°	2431.3	2449.8	2427.0	2445.5	2587.8	2925.2	3426.3	3814.9	3819.1	3658.3	3088.9
27.5°	2841.2	2817.0	2762.9	2670.4	2687.5	2970.7	3528.7	4066.8	4103.8	3940.1	3271.1
30°	3258.3	3244.1	3211.3	3067.5	2948.0	3071.8	3615.6	4324.5	4382.8	4217.7	3433.4
32.5°	3726.6	3740.8	3682.5	3510.2	3306.7	3276.8	3705.3	4569.3	4678.9	4532.3	3624.1
35°	4286.0	4290.3	4175.0	3984.2	3753.6	3615.6	3866.1	4839.7	5041.9	4933.7	3878.9
37.5°	4831.2	4856.8	4794.2	4493.8	4288.9	4036.9	4132.3	5187.1	5471.8	5429.1	4199.2
40°	5313.8	5353.6	5333.7	5043.3	4774.3	4562.2	4545.1	5594.2	5991.3	6039.7	4622.0
42.5°	5698.1	5723.7	5739.4	5533.0	5295.3	5175.7	5054.7	6066.8	6604.8	6802.7	5140.1
45°	6103.8	6112.3	6145.1	6005.6	5797.7	5807.7	5656.8	6640.4	7251.1	7648.2	5735.1
47.5°	6620.5	6649.0	6633.3	6486.7	6298.8	6411.2	6278.9	7231.1	7888.8	8550.7	6344.3
50°	7249.7	7279.5	7265.3	7094.5	6885.2	6932.2	6849.7	7804.8	8503.7	9401.9	6851.1
52.5°	7574.2	7598.4	7774.9	7851.8	7742.2	7443.2	7336.5	8435.4	9023.3	10102.3	7316.6
55°	7417.6	7434.7	7819.0	8143.6	8545.0	8246.1	7826.2	8922.2	9481.6	10648.9	7662.5
57.5°	6768.5	6861.0	7383.5	7932.9	8777.0	9038.9	8620.4	9451.7	9922.9	11028.9	8002.7
60°	5437.6	5433.3	6182.1	7168.5	8324.4	9256.7	9742.1	10167.7	10365.6	11320.7	8458.2
62.5°	3004.9	3032.0	4028.4	5328.0	7066.0	8693.0	10583.4	11404.7	11374.8	11830.3	9171.3
65°	1496.1	1550.1	2091.1	3051.9	4701.7	7184.2	10728.6	13292.2	13206.8	13030.3	10644.6
67.5°	949.4	970.8	1269.7	1773.6	2613.5	4617.7	9824.7	14700.0	14897.9	14453.8	12106.5
70°	614.9	650.5	882.5	1212.8	1577.2	2380.0	7197.0	13787.6	14241.7	14297.2	11195.5
72.5°	334.5	360.1	563.7	865.5	1138.8	1190.0	4042.6	10347.1	11077.3	12127.8	8758.5
75°	190.7	209.2	308.9	587.9	835.6	724.5	1792.1	6926.5	7392.0	8667.4	6276.0
77.5°	115.3	131.0	173.7	286.1	523.8	484.0	677.6	4216.3	4512.4	5171.4	3293.9
80°	52.7	62.6	109.6	158.0	286.1	229.2	259.1	1965.8	2029.8	2122.4	1090.4
82.5°	24.2	28.5	49.8	93.9	162.3	132.4	99.6	454.1	639.1	605.0	277.6
85°	2.8	2.8	18.5	38.4	45.6	34.2	41.3	102.5	129.5	182.2	79.7
87.5°	0.0	0.0	1.4	1.4	2.8	4.3	8.5	12.8	18.5	29.9	19.9
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°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1758.0	1718.1	1682.5	1629.9	1594.3	1554.4	1527.4	1494.6	1481.8	1471.9	1457.6
5°	1797.8	1733.8	1646.9	1550.1	1470.4	1395.0	1325.2	1279.7	1239.8	1234.1	1214.2
7.5°	1863.3	1767.9	1621.3	1463.3	1328.1	1202.8	1104.6	1024.9	985.0	972.2	949.4
10°	1950.1	1819.2	1582.9	1340.9	1145.9	996.4	885.4	795.7	733.1	710.3	693.2
12.5°	2046.9	1866.1	1521.7	1190.0	967.9	797.1	656.2	560.8	521.0	506.7	493.9
15°	2158.0	1910.3	1424.9	1039.1	794.3	586.5	486.8	445.5	428.5	424.2	419.9
17.5°	2264.7	1938.7	1309.6	882.5	610.7	455.5	408.5	392.9	388.6	384.3	381.5
20°	2385.7	1958.7	1174.3	734.5	474.0	385.8	363.0	351.6	343.1	334.5	333.1
22.5°	2509.6	1958.7	1027.7	589.3	397.1	345.9	320.3	298.9	283.3	274.7	271.9
25°	2627.7	1931.6	882.5	471.2	350.2	307.5	274.7	250.5	229.2	219.2	216.4
27.5°	2711.7	1861.9	755.9	398.6	317.4	273.3	233.4	206.4	189.3	179.4	177.9
30°	2764.3	1758.0	639.1	355.9	289.0	237.7	197.9	175.1	162.3	155.2	152.3
32.5°	2804.2	1629.9	535.2	326.0	261.9	206.4	172.2	153.7	142.3	136.7	135.2
35°	2883.9	1508.9	458.4	298.9	233.4	180.8	150.9	136.7	128.1	121.0	119.6
37.5°	2994.9	1407.8	397.1	274.7	206.4	160.9	136.7	123.8	116.7	109.6	108.2
40°	3158.6	1343.7	351.6	250.5	182.2	145.2	125.3	113.9	103.9	96.8	95.4
42.5°	3410.6	1313.8	321.7	226.3	160.9	131.0	115.3	101.1	91.1	84.0	82.6
45°	3710.9	1329.5	296.1	202.1	146.6	121.0	102.5	88.3	78.3	71.2	69.7
47.5°	4032.6	1385.0	274.7	179.4	132.4	111.0	91.1	75.4	66.9	59.8	58.4
50°	4368.6	1476.1	256.2	158.0	121.0	99.6	78.3	65.5	56.9	51.2	49.8
52.5°	4660.4	1600.0	237.7	142.3	111.0	88.3	68.3	56.9	48.4	42.7	41.3
55°	4939.4	1716.7	223.5	128.1	99.6	76.9	59.8	48.4	41.3	35.6	34.2
57.5°	5242.6	1840.5	206.4	115.3	89.7	68.3	52.7	41.3	35.6	29.9	28.5
60°	5683.9	2024.2	180.8	105.3	78.3	59.8	45.6	37.0	31.3	24.2	22.8
62.5°	6320.1	2358.7	152.3	91.1	66.9	51.2	38.4	31.3	25.6	19.9	17.1
65°	7510.1	2928.0	125.3	75.4	54.1	42.7	32.7	25.6	19.9	14.2	12.8
67.5°	8367.1	3076.1	101.1	61.2	44.1	32.7	27.0	19.9	14.2	10.0	8.5
70°	7315.1	2209.2	78.3	49.8	37.0	25.6	21.4	15.7	10.0	7.1	5.7
72.5°	5511.6	1443.4	58.4	38.4	28.5	21.4	15.7	12.8	8.5	5.7	4.3
75°	3884.6	834.1	42.7	28.5	19.9	15.7	12.8	10.0	7.1	4.3	4.3
77.5°	1991.4	344.5	29.9	19.9	14.2	10.0	8.5	5.7	5.7	4.3	2.8
80°	605.0	113.9	17.1	12.8	10.0	7.1	4.3	4.3	4.3	2.8	1.4
82.5°	138.1	37.0	10.0	10.0	7.1	5.7	4.3	1.4	1.4	0.0	0.0
85°	35.6	11.4	8.5	7.1	7.1	5.7	2.8	1.4	0.0	0.0	0.0
87.5°	12.8	7.1	7.1	7.1	5.7	4.3	2.8	0.0	0.0	0.0	0.0
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)