

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: P640317

Luminaire Tested: GWS-SA5D-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640317
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-SA5D-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24055.6 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

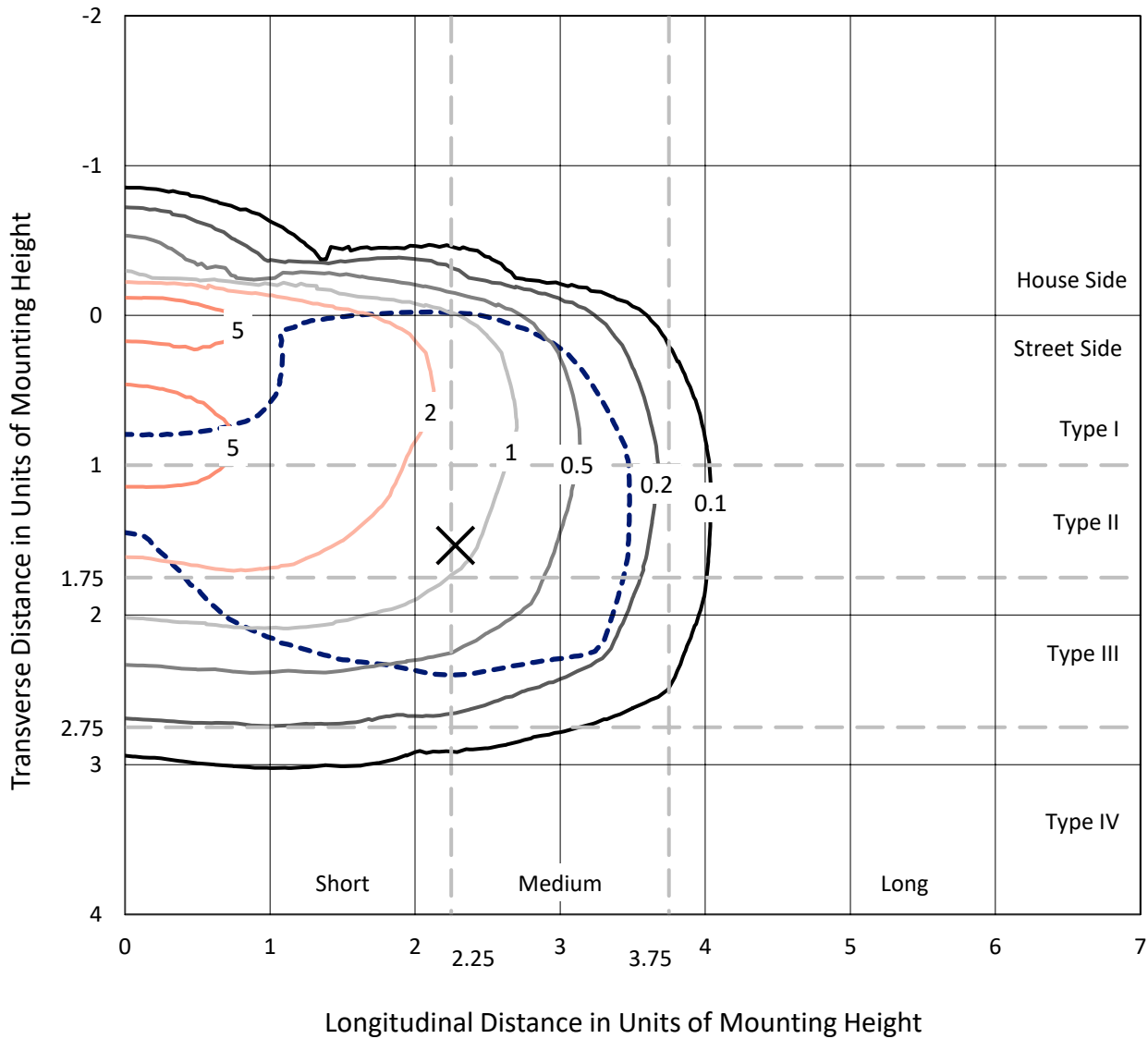
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

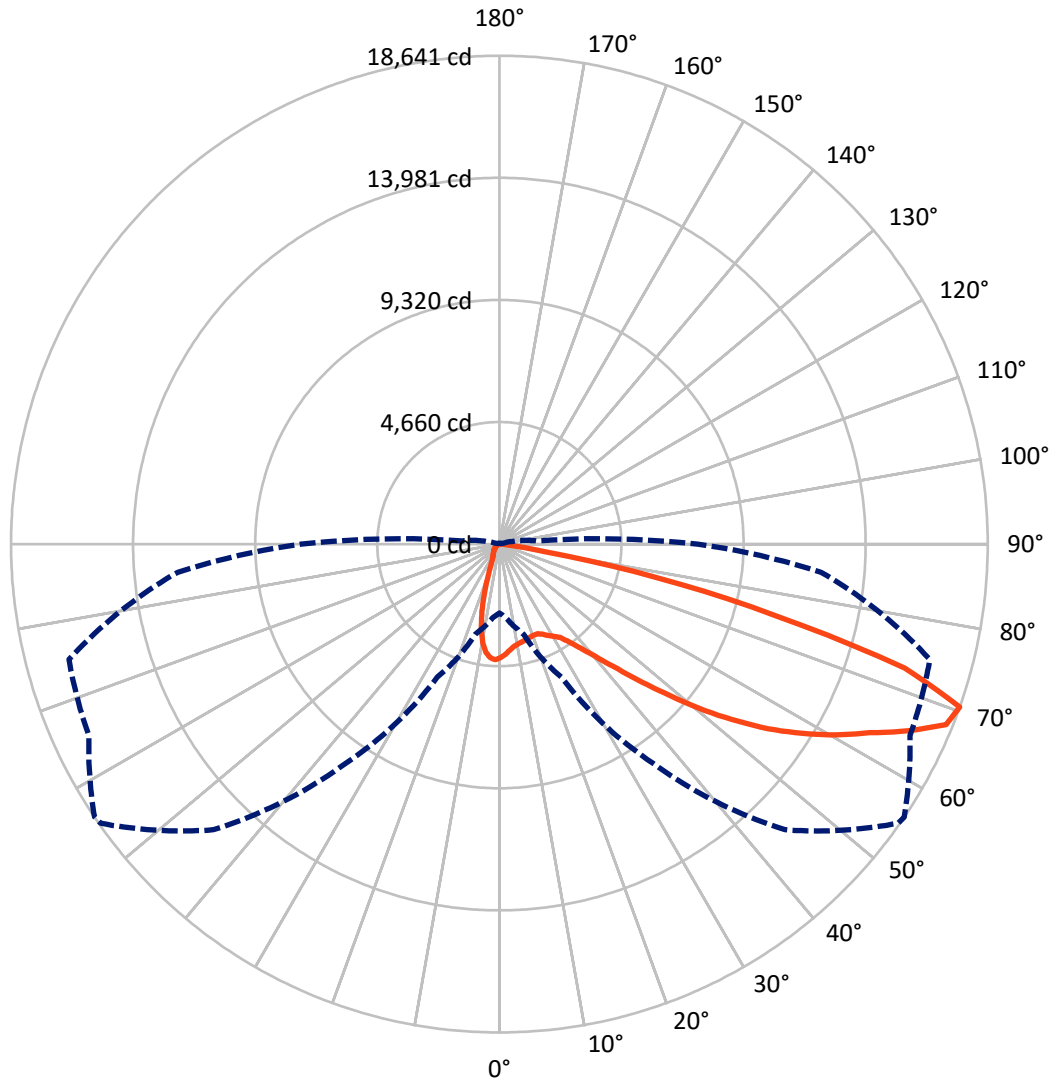
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2160.6	0.0	2160.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	21894.9	0.0	21894.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	24055.6	0.0	24055.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.4	1.5
10°-20°	837.6	3.5
20°-30°	1326.7	5.5
30°-40°	2288.0	9.5
40°-50°	3863.6	16.1
50°-60°	5676.9	23.6
60°-70°	6730.3	28.0
70°-80°	2870.0	11.9
80°-90°	90.1	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°	24055.6	100.0
0°-180°	24055.6	100.0

Coefficient of Utilization



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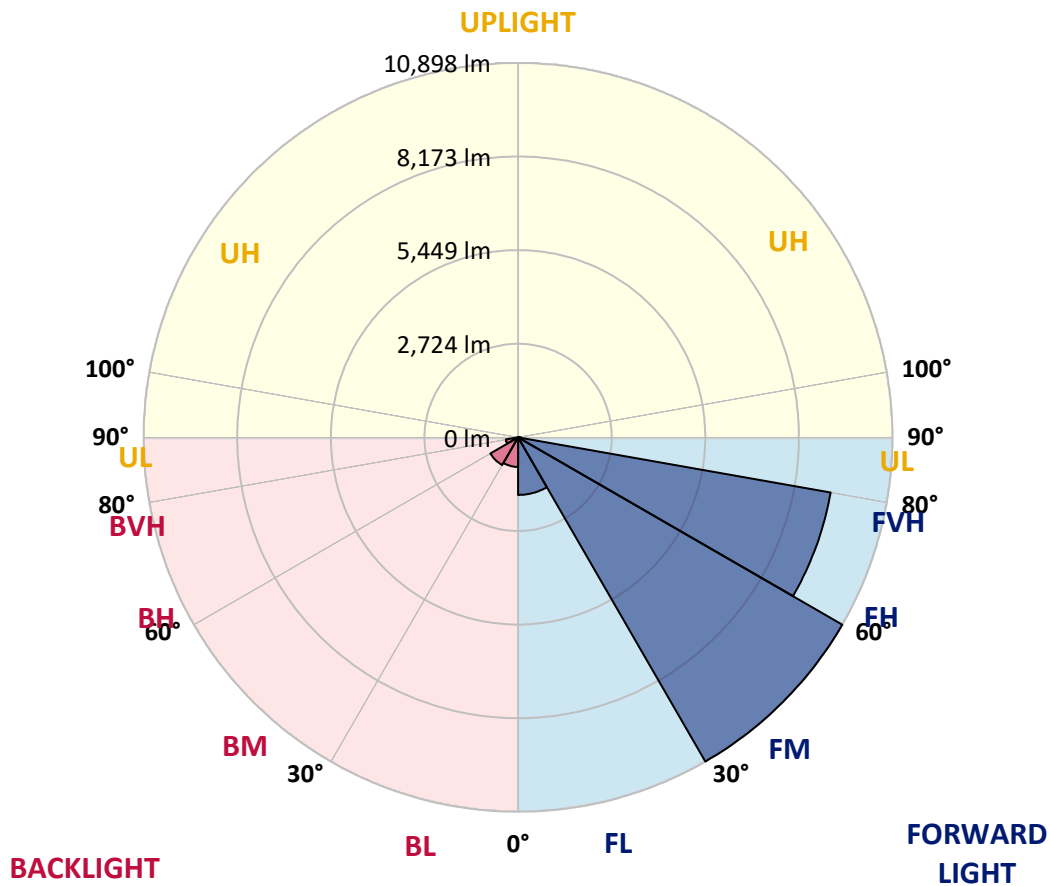
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.2	7.0			
FM (30°-60°)	10897.8	45.3			
FH (60°-80°)	9239.9	38.4			G4/12000
FVH (80°-90°)	81.0	0.3			G1/100
BL (0°-30°)	860.5	3.6	B2/1000		
BM (30°-60°)	930.6	3.9	B1/1000		
BH (60°-80°)	360.4	1.5	B1/500		G1/500
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5
2.5°	4037.9	4031.3	4035.7	4068.7	4130.4	4159.0	4207.5	4216.3	4256.0	4306.6	4326.5
5°	3775.7	3753.7	3764.7	3811.0	3881.5	3960.8	4051.1	4075.3	4174.5	4286.8	4370.5
7.5°	3535.6	3511.4	3537.8	3610.5	3709.6	3795.6	3929.9	3945.4	4104.0	4302.2	4454.2
10°	3158.9	3165.5	3218.4	3346.2	3498.2	3676.6	3857.2	3879.3	4075.3	4352.9	4588.6
12.5°	2870.4	2854.9	2912.2	3057.6	3271.3	3531.2	3802.2	3830.8	4077.5	4430.0	4760.4
15°	2736.0	2731.6	2755.8	2861.5	3068.6	3374.8	3751.5	3789.0	4106.2	4500.5	4923.4
17.5°	2740.4	2733.8	2731.6	2793.2	2947.5	3258.1	3696.4	3744.9	4130.4	4577.6	5095.3
20°	2932.0	2901.2	2846.1	2817.5	2910.0	3183.2	3659.0	3714.1	4165.6	4659.1	5278.1
22.5°	3333.0	3344.0	3196.4	3042.2	2998.1	3192.0	3654.6	3718.5	4242.7	4786.9	5502.8
25°	4134.8	4117.2	3844.0	3498.2	3258.1	3293.3	3731.7	3808.8	4394.7	4969.7	5714.3
27.5°	5139.3	5154.7	4780.2	4229.5	3727.3	3502.6	3872.7	3949.8	4571.0	5084.2	5855.2
30°	6234.1	6218.7	5817.8	5207.6	4392.5	3850.6	4013.6	4081.9	4659.1	5145.9	6000.6
32.5°	7269.5	7234.3	6837.7	6198.9	5240.6	4399.1	4207.5	4247.1	4775.8	5280.3	6196.7
35°	8152.9	8150.6	7804.8	7124.1	6113.0	5086.4	4540.1	4573.2	4993.9	5494.0	6485.3
37.5°	9064.8	9034.0	8646.3	8025.1	7009.6	5839.8	5049.0	5035.8	5337.6	5809.0	6839.9
40°	9813.8	9794.0	9496.6	8899.6	7941.4	6672.5	5665.8	5626.2	5745.1	6245.2	7333.4
42.5°	10368.9	10371.1	10278.6	9915.2	8928.3	7635.2	6441.2	6379.5	6377.3	6903.8	7985.4
45°	10789.7	10818.3	10957.1	10902.0	10093.6	8756.4	7434.7	7370.8	7262.9	7758.5	8732.2
47.5°	10985.8	11023.2	11441.7	11662.0	11113.5	9868.9	8617.7	8483.3	8271.8	8895.2	9567.1
50°	10965.9	11032.0	11615.8	12285.5	12038.7	10996.8	9906.3	9842.5	9496.6	10098.0	10393.2
52.5°	10516.5	10657.5	11626.8	12664.3	12750.3	12036.5	11239.1	11120.1	10952.7	11353.6	11168.6
55°	9296.1	9468.0	11162.0	12785.5	13305.4	12944.1	12543.2	12446.3	12168.7	12538.8	11844.9
57.5°	8633.1	8780.7	10183.9	12726.0	13776.8	13783.4	13704.1	13624.8	13395.7	13710.7	12637.9
60°	8234.4	8382.0	9661.8	12507.9	14204.2	14669.0	14794.5	14785.7	14455.3	15043.5	13567.5
62.5°	7650.6	7853.3	9117.7	11941.8	14508.2	15541.3	15920.2	15860.7	15492.8	16431.3	14488.3
65°	6472.1	6648.3	8003.1	11007.8	14329.7	16263.8	17140.6	17171.4	16746.3	17737.6	15215.3
67.5°	4537.9	4667.9	6013.9	9047.2	13118.1	16501.8	18389.6	18387.4	17662.7	18407.2	14893.7
70°	2630.2	2808.7	3553.2	5593.1	10205.9	15420.1	18576.9	18640.8	17290.4	17008.4	12325.1
72.5°	1017.7	1165.3	2013.4	2971.7	5322.2	11811.8	15979.7	16166.9	14470.7	13120.3	8578.0
75°	304.0	339.2	947.2	1581.7	2136.8	5705.5	10818.3	10871.2	9926.2	8183.7	4396.9
77.5°	226.9	251.1	414.1	799.6	749.0	1729.3	5597.5	6113.0	5269.3	2923.2	1211.6
80°	154.2	182.8	295.2	389.9	277.6	460.4	1572.9	1727.1	1608.1	656.5	304.0
82.5°	68.3	88.1	209.3	196.1	101.3	132.2	484.6	515.5	332.6	198.3	105.7
85°	6.6	8.8	79.3	85.9	37.4	30.8	101.3	101.3	72.7	68.3	44.1
87.5°	0.0	0.0	2.2	4.4	4.4	6.6	8.8	11.0	13.2	17.6	22.0
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°	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5	4337.5
2.5°	4377.1	4350.7	4383.7	4410.2	4416.8	4368.3	4339.7	4297.8	4289.0	4291.2	4280.2
5°	4436.6	4423.4	4447.6	4419.0	4344.1	4203.1	4081.9	3947.6	3874.9	3833.0	3828.6
7.5°	4546.7	4540.1	4513.7	4383.7	4150.2	3837.4	3535.6	3240.4	3057.6	2991.5	2980.5
10°	4709.8	4696.5	4588.6	4280.2	3782.3	3181.0	2674.3	2251.3	1993.6	1918.7	1826.2
12.5°	4897.0	4870.6	4634.9	4057.7	3227.2	2394.5	1762.3	1288.7	1066.2	1000.1	1000.1
15°	5077.6	5020.4	4608.4	3689.8	2544.3	1557.4	984.7	744.6	676.3	658.7	658.7
17.5°	5262.7	5152.5	4504.9	3187.6	1757.9	920.8	656.5	610.2	601.4	603.6	605.8
20°	5436.7	5264.9	4322.0	2584.0	1121.3	643.2	588.2	577.2	572.7	577.2	575.0
22.5°	5626.2	5368.4	4044.5	1925.3	729.2	579.4	559.5	550.7	546.3	552.9	552.9
25°	5813.4	5443.3	3676.6	1295.3	579.4	539.7	528.7	519.9	515.5	517.7	517.7
27.5°	5910.3	5414.7	3194.2	826.1	519.9	500.1	489.0	478.0	471.4	469.2	471.4
30°	5976.4	5326.6	2603.8	588.2	471.4	447.2	436.2	427.4	409.7	398.7	403.1
32.5°	6079.9	5238.4	1962.8	493.4	431.8	394.3	376.7	354.7	330.4	319.4	319.4
35°	6203.3	5117.3	1376.8	445.0	389.9	350.3	317.2	279.8	251.1	242.3	242.3
37.5°	6366.3	5002.7	916.4	411.9	354.7	312.8	266.5	222.5	191.7	187.2	185.0
40°	6610.8	4905.8	645.4	387.7	323.8	273.2	218.1	171.8	149.8	143.2	143.2
42.5°	6928.1	4806.7	511.1	363.5	297.4	235.7	174.0	136.6	119.0	114.5	112.3
45°	7320.2	4689.9	445.0	341.4	271.0	196.1	138.8	114.5	101.3	96.9	96.9
47.5°	7745.3	4531.3	414.1	312.8	240.1	158.6	116.8	99.1	92.5	90.3	88.1
50°	8163.9	4317.6	387.7	286.4	204.9	130.0	101.3	90.3	85.9	83.7	83.7
52.5°	8529.5	4068.7	354.7	255.5	167.4	112.3	90.3	83.7	79.3	74.9	72.7
55°	8842.4	3797.8	312.8	220.3	136.6	99.1	83.7	77.1	72.7	68.3	66.1
57.5°	9245.5	3643.6	251.1	178.4	112.3	88.1	77.1	70.5	66.1	59.5	59.5
60°	9692.7	3531.2	187.2	141.0	96.9	81.5	70.5	63.9	59.5	52.9	52.9
62.5°	10051.7	3363.8	147.6	114.5	83.7	72.7	63.9	57.3	52.9	46.3	46.3
65°	10188.3	3017.9	121.2	90.3	68.3	63.9	57.3	52.9	46.3	39.7	39.7
67.5°	9571.5	2326.2	101.3	72.7	57.3	55.1	50.7	48.5	39.7	35.2	33.0
70°	7580.1	1418.7	83.7	59.5	48.5	46.3	46.3	41.9	35.2	33.0	30.8
72.5°	5194.4	731.4	68.3	48.5	41.9	41.9	39.7	37.4	33.0	30.8	30.8
75°	2698.5	244.5	52.9	37.4	33.0	35.2	35.2	33.0	30.8	30.8	28.6
77.5°	773.2	110.1	39.7	28.6	26.4	26.4	28.6	28.6	28.6	26.4	26.4
80°	200.5	63.9	28.6	22.0	22.0	22.0	22.0	24.2	26.4	24.2	24.2
82.5°	81.5	35.2	19.8	17.6	17.6	17.6	17.6	19.8	22.0	22.0	22.0
85°	50.7	17.6	15.4	15.4	15.4	13.2	13.2	15.4	15.4	17.6	17.6
87.5°	30.8	13.2	13.2	13.2	13.2	11.0	11.0	11.0	11.0	11.0	11.0
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)