

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: P640753

Luminaire Tested: GWS-SA5E-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27560.4 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

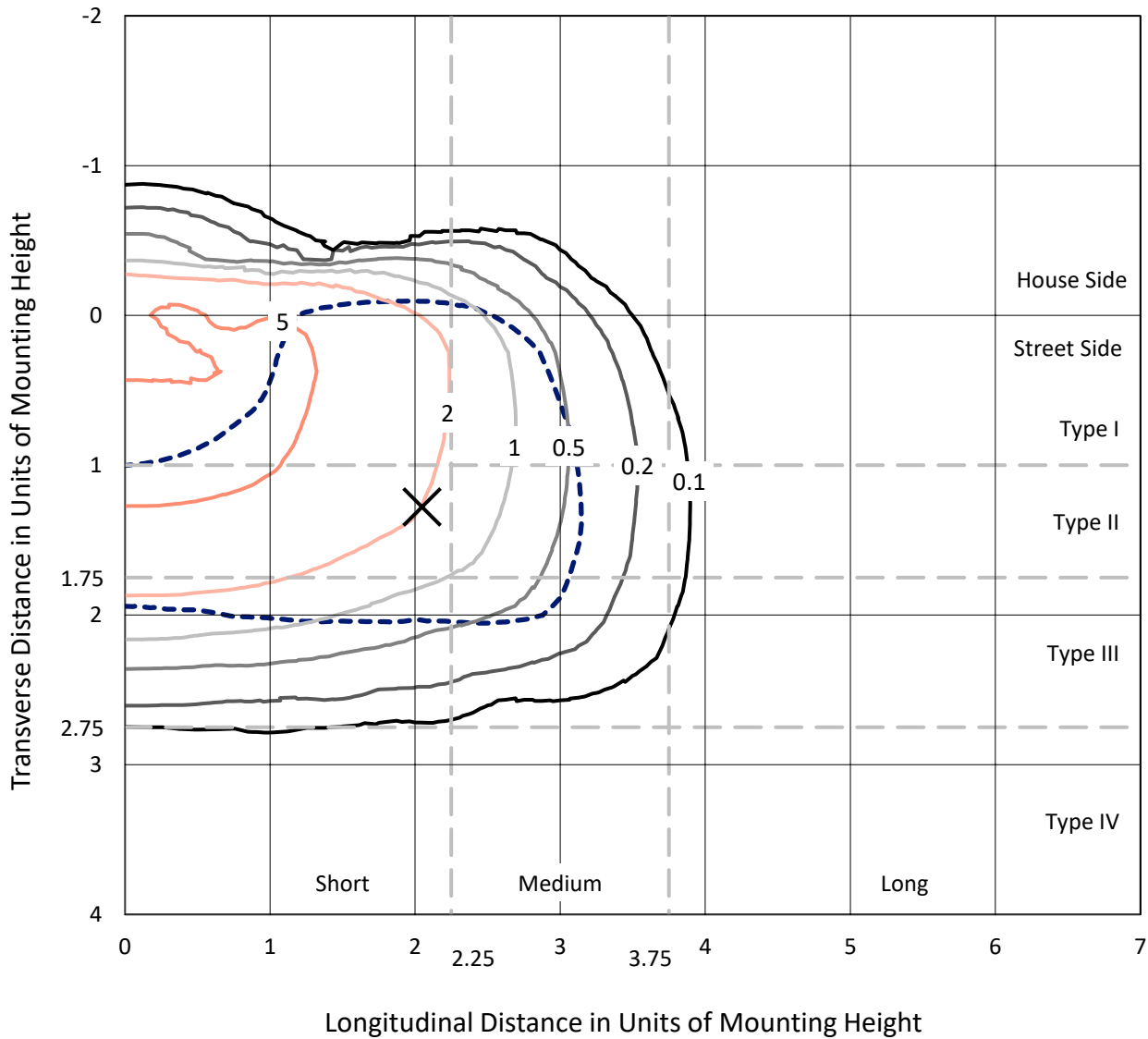
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

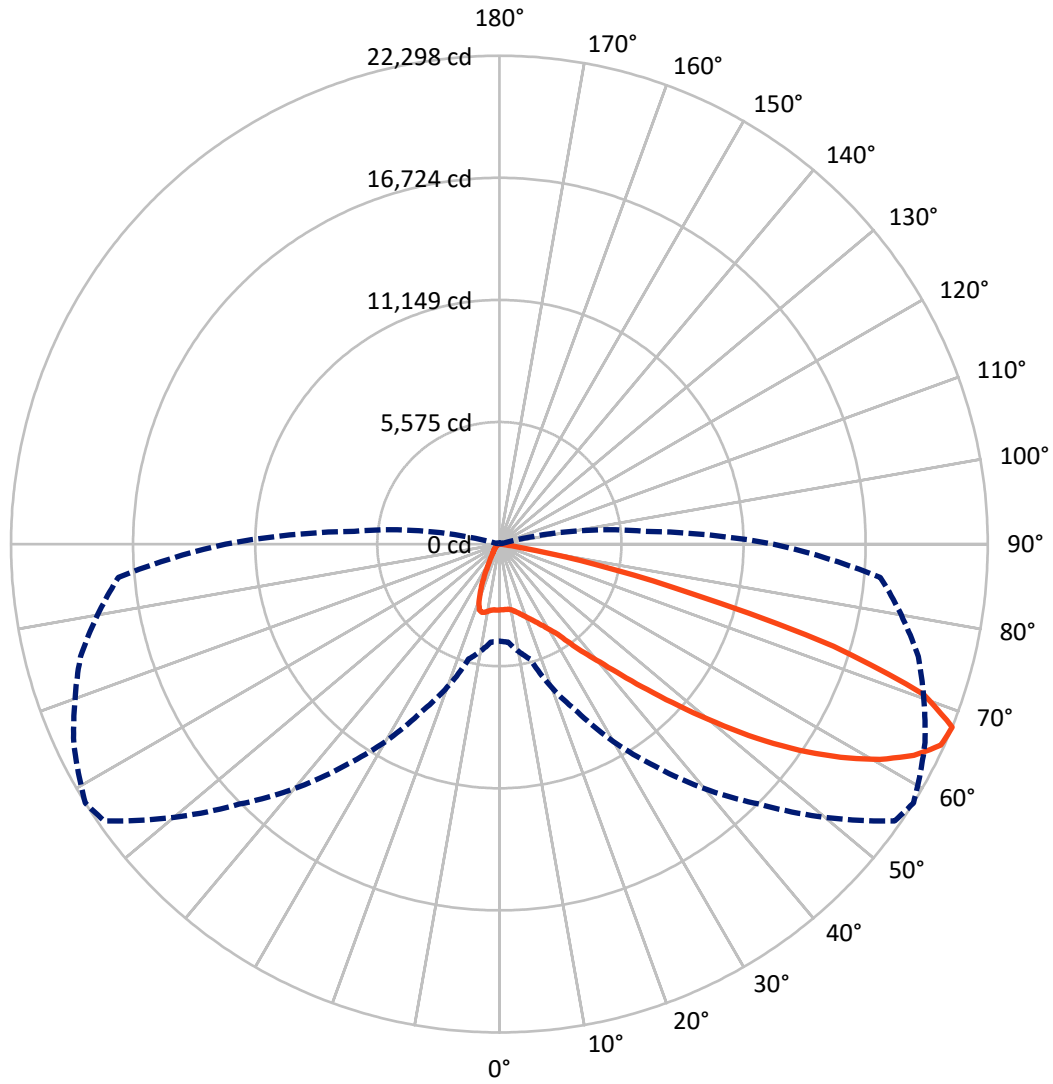
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3006.8	0.0	3006.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	24553.6	0.0	24553.6
	% Fixture	89.1	0.0	89.1
Total	Lumens	27560.4	0.0	27560.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	1.0
10°-20°	792.1	2.9
20°-30°	1382.7	5.0
30°-40°	2469.2	9.0
40°-50°	4513.3	16.4
50°-60°	7506.1	27.2
60°-70°	8152.9	29.6
70°-80°	2393.8	8.7
80°-90°	68.2	0.2
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°	27560.4	100.0
0°-180°	27560.4	100.0

Coefficient of Utilization



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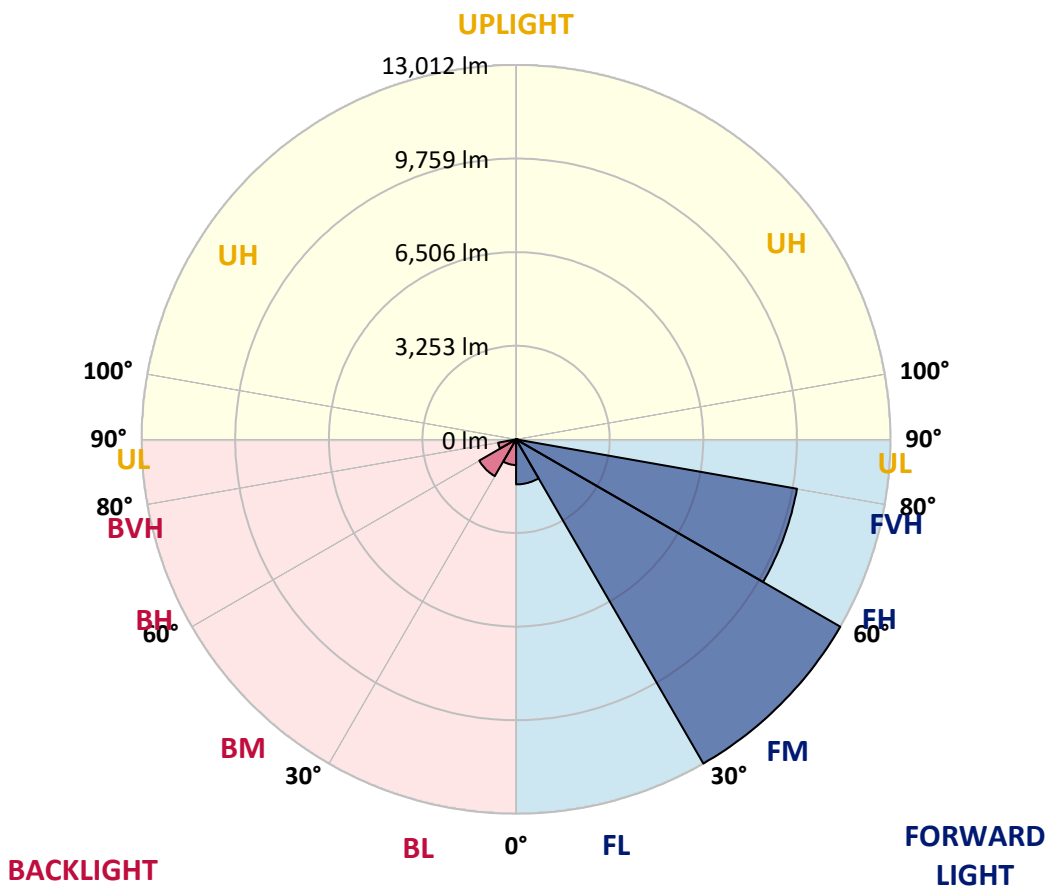
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1565.0	5.7			
FM (30°-60°)	13011.8	47.2			
FH (60°-80°)	9912.0	36.0			G4/12000
FVH (80°-90°)	64.8	0.2			G1/100
BL (0°-30°)	891.9	3.2	B2/1000		
BM (30°-60°)	1476.8	5.4	B2/2500		
BH (60°-80°)	634.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3
2.5°	2946.7	2941.4	2941.4	2962.9	2965.6	2976.3	3000.6	3003.3	3016.7	3011.3	2992.5
5°	2793.4	2796.0	2812.2	2849.9	2882.2	2922.5	2981.7	2995.2	3024.8	3040.9	3030.2
7.5°	2650.7	2653.4	2677.6	2736.8	2798.7	2879.5	2976.3	3003.3	3062.5	3105.5	3108.2
10°	2596.9	2594.2	2618.4	2685.7	2766.4	2879.5	3019.4	3054.4	3143.2	3218.5	3232.0
12.5°	2613.1	2610.4	2634.6	2696.5	2785.3	2927.9	3094.8	3143.2	3256.2	3371.9	3396.2
15°	2677.6	2674.9	2691.1	2742.2	2839.1	2987.1	3191.6	3264.3	3406.9	3546.9	3584.5
17.5°	2871.4	2857.9	2841.8	2847.2	2903.7	3057.1	3315.4	3404.2	3581.8	3748.7	3781.0
20°	3215.9	3180.9	3137.8	3081.3	3054.4	3159.3	3458.1	3560.3	3775.6	3966.7	3972.1
22.5°	3735.2	3721.8	3622.2	3458.1	3342.3	3345.0	3624.9	3743.3	4007.0	4216.9	4187.3
25°	4459.1	4451.1	4297.7	4028.6	3727.2	3624.9	3837.5	3958.6	4281.5	4504.9	4410.7
27.5°	5358.0	5301.5	5121.2	4757.9	4308.4	3988.2	4106.6	4214.3	4572.2	4782.1	4604.5
30°	6141.1	6143.8	5974.2	5594.8	5088.9	4534.5	4434.9	4529.1	4838.6	5059.3	4844.0
32.5°	6894.6	6918.8	6733.1	6391.3	5837.0	5247.6	4905.9	4922.0	5180.4	5419.9	5158.8
35°	7594.3	7613.1	7483.9	7193.3	6676.6	5993.1	5562.5	5554.4	5694.4	5939.2	5597.5
37.5°	8377.4	8396.2	8269.7	8008.7	7524.3	6846.1	6307.9	6297.2	6353.7	6552.8	6162.6
40°	9211.6	9246.6	9106.7	8886.0	8423.1	7849.9	7174.5	7077.6	7021.1	7255.2	6894.6
42.5°	10056.6	10110.4	10062.0	9841.3	9445.7	8972.1	8299.3	8148.6	8027.5	8320.9	7938.7
45°	11106.1	11170.7	11149.2	10979.7	10672.9	10288.0	9653.0	9478.0	9421.5	9693.3	9238.5
47.5°	12115.3	12185.3	12263.3	12225.6	12007.7	11830.0	11125.0	11025.4	11009.3	11299.9	10594.8
50°	12866.1	12930.7	13229.4	13444.7	13592.7	13555.0	12944.2	12796.1	12771.9	12957.6	12026.5
52.5°	13404.3	13466.2	13878.0	14550.7	15094.3	15390.4	14774.1	14741.8	14609.9	14545.4	13366.7
55°	13821.5	13907.6	14340.8	15358.1	16453.3	17110.0	16725.1	16609.4	16270.4	15899.0	14609.9
57.5°	13904.9	13939.9	14550.7	15923.2	17508.3	18571.2	18571.2	18369.4	17715.5	17201.5	16047.0
60°	13156.8	13264.4	14090.6	15877.5	17960.4	19526.6	20102.5	19962.5	19079.9	18447.4	17430.2
62.5°	11496.4	11617.5	12623.9	14782.2	17508.3	19723.0	21262.3	21240.8	20245.1	19478.1	18576.6
65°	8816.0	8904.8	9782.1	12365.6	15597.6	18966.8	22091.2	22150.4	21165.4	20159.0	18972.2
67.5°	4429.5	4491.4	5438.7	8447.3	12362.9	16789.7	22034.7	22298.4	21445.3	19798.4	17462.5
70°	1547.4	1609.3	2056.0	3624.9	7524.3	12820.4	20129.4	20560.0	19801.1	16900.1	12882.3
72.5°	530.1	559.7	853.1	1345.5	2927.9	7599.6	15306.9	15955.5	14596.5	11345.6	7403.2
75°	301.4	320.2	457.5	729.3	1227.1	2500.0	8684.2	9082.4	8509.2	6184.1	3046.3
77.5°	204.5	220.7	285.3	414.4	678.2	804.6	3541.5	4459.1	3888.6	2018.3	777.7
80°	121.1	131.9	174.9	244.9	347.2	312.2	758.9	1009.2	1299.8	602.8	234.1
82.5°	56.5	64.6	113.0	161.5	174.9	131.9	223.4	271.8	366.0	296.0	96.9
85°	0.0	0.0	37.7	67.3	64.6	37.7	61.9	67.3	99.6	148.0	37.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	5.4	8.1	16.1	29.6	16.1
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°	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3	3003.3
2.5°	3014.0	2995.2	3016.7	3006.0	3016.7	3014.0	2992.5	2979.0	2979.0	2954.8	2946.7
5°	3051.7	3032.9	3038.2	3014.0	3008.6	2995.2	2968.3	2957.5	2957.5	2933.3	2925.2
7.5°	3135.1	3105.5	3100.1	3051.7	3030.2	2992.5	2944.1	2925.2	2922.5	2898.3	2890.2
10°	3267.0	3232.0	3207.8	3145.9	3084.0	3008.6	2906.4	2820.3	2771.8	2707.2	2701.9
12.5°	3428.5	3385.4	3347.7	3253.5	3151.3	2981.7	2680.3	2365.5	2171.7	2018.3	2029.1
15°	3608.8	3568.4	3509.2	3366.6	3156.7	2715.3	2085.6	1601.2	1364.4	1237.9	1232.5
17.5°	3805.2	3746.0	3649.1	3455.4	2987.1	2074.8	1356.3	958.0	834.2	791.2	780.4
20°	3988.2	3915.5	3794.4	3474.2	2497.3	1404.8	847.7	742.7	721.2	707.8	707.8
22.5°	4182.0	4090.5	3910.2	3328.9	1856.9	898.8	721.2	697.0	680.8	662.0	659.3
25°	4378.4	4260.0	4015.1	2949.4	1216.4	707.8	675.5	648.6	619.0	589.3	581.3
27.5°	4545.3	4391.9	4095.8	2384.3	780.4	637.8	616.3	570.5	530.1	497.9	492.5
30°	4744.4	4547.9	4130.8	1743.8	613.6	562.4	530.1	481.7	433.3	401.0	390.2
32.5°	5010.8	4795.5	4077.0	1135.6	543.6	495.2	444.0	387.5	339.1	304.1	298.7
35°	5425.2	5169.6	3829.4	723.9	492.5	427.9	366.0	306.8	266.4	239.5	234.1
37.5°	5931.2	5694.4	3423.1	543.6	441.3	371.4	298.7	242.2	212.6	193.8	188.4
40°	6682.0	6351.0	2919.8	476.3	390.2	314.9	244.9	199.1	177.6	161.5	156.1
42.5°	7656.2	7126.0	2341.3	433.3	341.8	263.7	199.1	164.2	145.3	134.6	131.9
45°	8794.5	7882.2	1730.4	390.2	296.0	218.0	164.2	134.6	121.1	113.0	110.3
47.5°	9959.7	8544.2	1194.8	344.5	253.0	180.3	137.2	115.7	105.0	94.2	91.5
50°	11203.0	9104.0	815.4	298.7	215.3	148.0	118.4	105.0	91.5	83.4	80.7
52.5°	12115.3	9311.2	567.8	258.3	183.0	126.5	105.0	94.2	83.4	72.7	70.0
55°	12957.6	9305.8	430.6	218.0	156.1	110.3	94.2	83.4	72.7	64.6	61.9
57.5°	13797.2	9233.1	339.1	185.7	134.6	99.6	83.4	72.7	67.3	56.5	53.8
60°	14340.8	8958.6	263.7	156.1	115.7	86.1	72.7	64.6	56.5	48.4	45.7
62.5°	14628.8	8576.5	201.8	123.8	94.2	75.4	64.6	56.5	48.4	40.4	37.7
65°	14238.6	7898.4	158.8	96.9	72.7	64.6	53.8	45.7	37.7	29.6	26.9
67.5°	12508.2	6660.5	123.8	78.0	56.5	48.4	45.7	37.7	26.9	21.5	18.8
70°	8840.2	4561.4	96.9	59.2	43.1	37.7	35.0	29.6	21.5	16.1	13.5
72.5°	4852.0	2300.9	70.0	43.1	32.3	29.6	26.9	24.2	18.8	13.5	13.5
75°	1867.6	632.4	51.1	29.6	21.5	21.5	18.8	18.8	16.1	10.8	10.8
77.5°	487.1	188.4	32.3	18.8	13.5	13.5	13.5	10.8	10.8	8.1	8.1
80°	156.1	61.9	18.8	13.5	10.8	8.1	8.1	5.4	8.1	5.4	5.4
82.5°	51.1	21.5	10.8	10.8	8.1	5.4	5.4	2.7	2.7	0.0	0.0
85°	18.8	10.8	8.1	5.4	5.4	5.4	2.7	0.0	0.0	0.0	0.0
87.5°	10.8	5.4	5.4	5.4	5.4	2.7	0.0	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)