

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: P634009

Luminaire Tested: GWS-SA2F-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10807 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

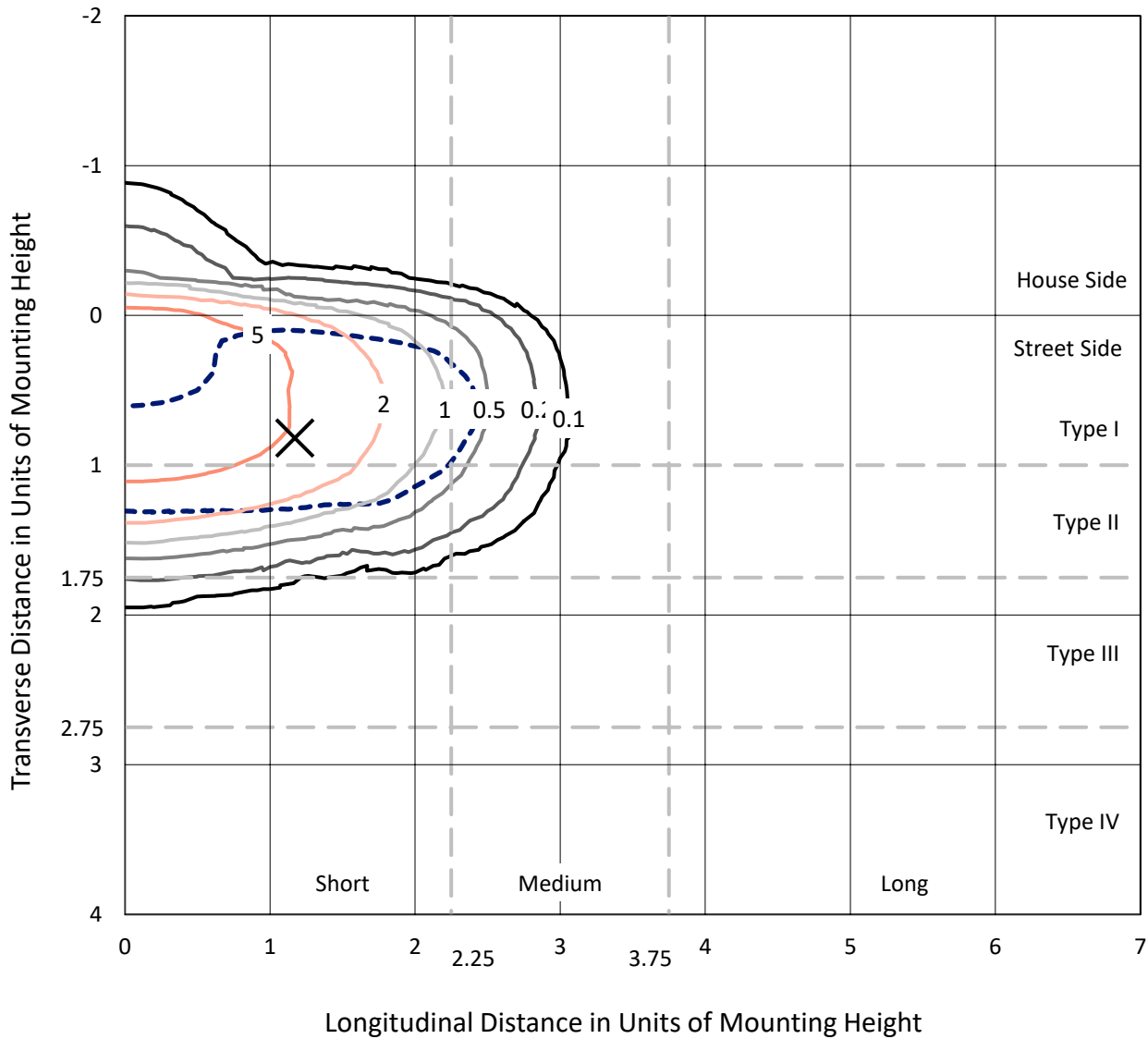
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

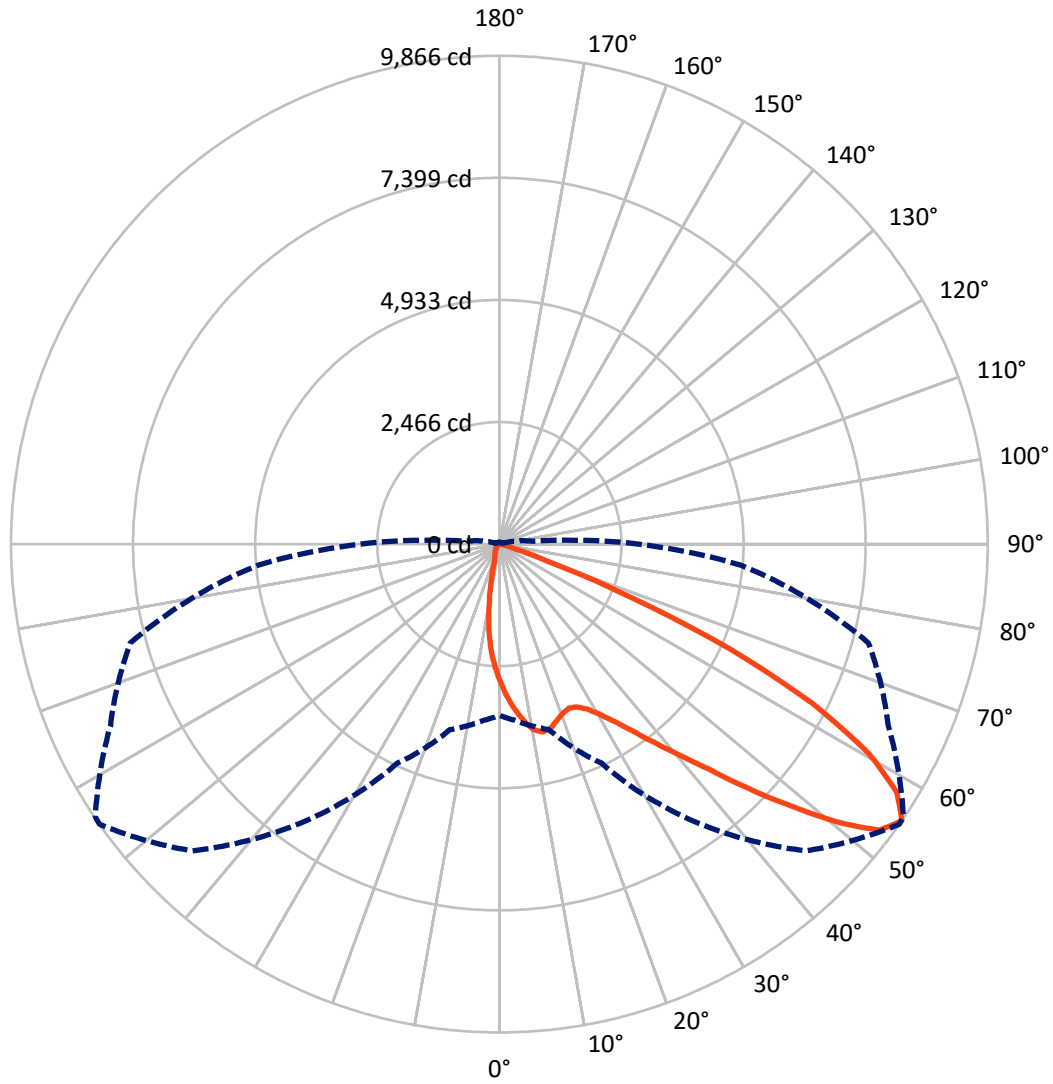
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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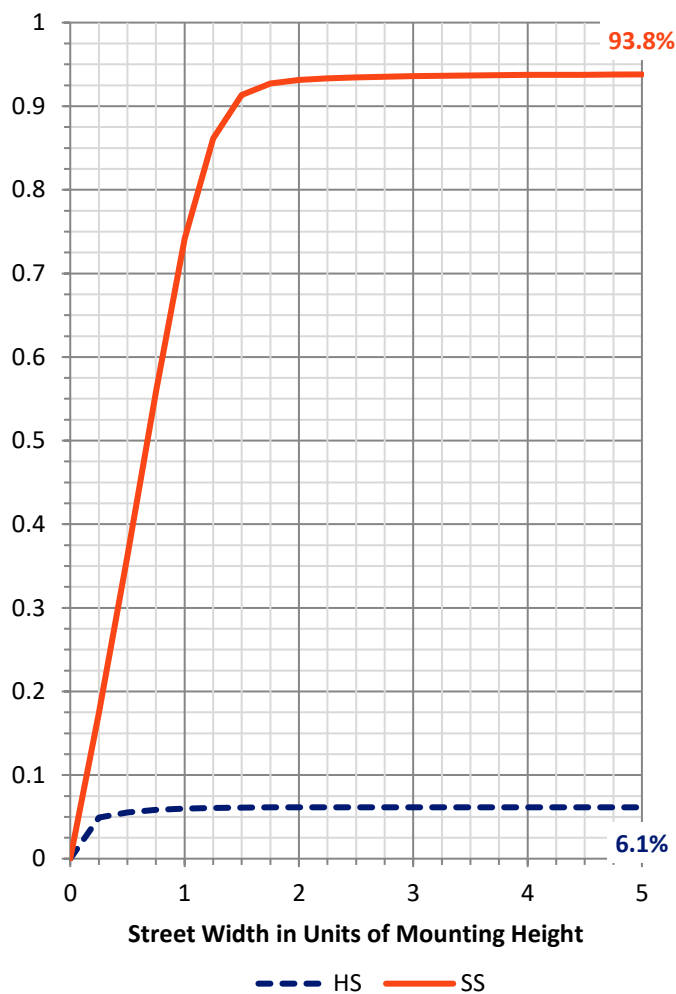
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.8	0.0	666.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	10140.2	0.0	10140.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	10807.0	0.0	10807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	2.3
10°-20°	594.9	5.5
20°-30°	990.7	9.2
30°-40°	1688.1	15.6
40°-50°	2755.6	25.5
50°-60°	2885.0	26.7
60°-70°	1455.1	13.5
70°-80°	183.8	1.7
80°-90°	7.0	0.1
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°	10807.0	100.0
0°-180°	10807.0	100.0

Coefficient of Utilization

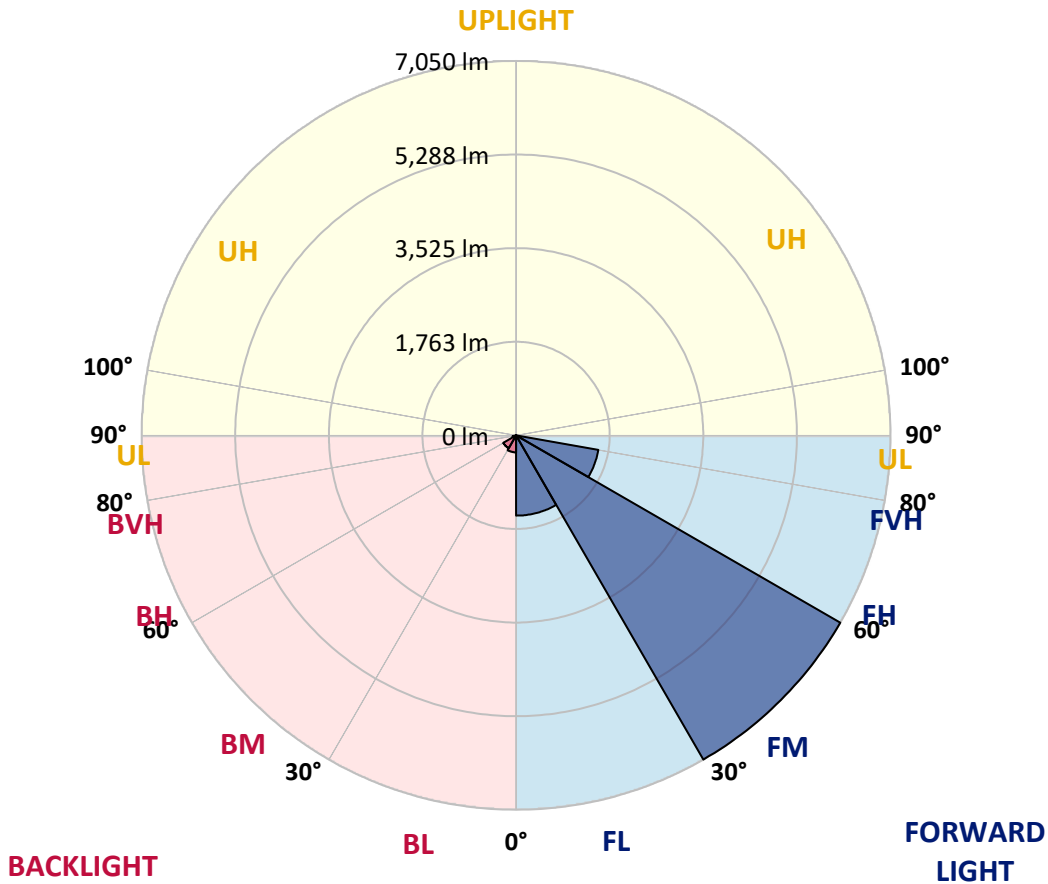


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.7	14.0			
FM (30°-60°)	7050.0	65.2			
FH (60°-80°)	1572.1	14.5			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	320.5	3.0	B1/500		
BM (30°-60°)	278.8	2.6	B1/1000		
BH (60°-80°)	66.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9
2.5°	3254.7	3239.0	3263.1	3235.3	3188.2	3148.5	3096.8	3078.3	2995.1	2916.6	2840.9
5°	3650.2	3654.8	3647.4	3608.6	3542.1	3468.2	3363.8	3340.7	3195.6	3046.0	2884.3
7.5°	3748.1	3745.3	3761.0	3775.8	3764.7	3727.8	3614.1	3591.0	3410.9	3186.4	2950.8
10°	3446.0	3447.8	3480.2	3579.9	3703.7	3832.2	3814.6	3801.7	3625.2	3345.3	3024.7
12.5°	3019.2	3035.8	3070.0	3212.3	3422.0	3713.9	3895.0	3907.9	3822.0	3519.9	3111.6
15°	2834.4	2838.1	2865.8	2951.7	3107.9	3468.2	3860.8	3896.8	3986.4	3695.4	3205.8
17.5°	2829.8	2834.4	2846.4	2884.3	2985.9	3275.1	3750.9	3813.7	4110.2	3883.9	3318.5
20°	3003.5	3000.7	2992.4	2972.0	3016.4	3211.3	3649.2	3718.5	4177.7	4067.7	3432.1
22.5°	3318.5	3314.8	3277.8	3193.8	3157.7	3269.5	3599.3	3662.2	4218.3	4231.3	3525.4
25°	3681.6	3707.4	3638.1	3510.7	3422.0	3418.3	3643.7	3688.0	4253.4	4376.3	3589.2
27.5°	4079.8	4088.1	4028.9	3885.7	3757.3	3656.6	3772.1	3805.4	4292.2	4505.7	3625.2
30°	4516.7	4514.0	4446.5	4280.2	4124.1	3979.1	3988.3	4001.2	4382.8	4653.5	3664.9
32.5°	5062.7	5074.7	4954.6	4728.3	4540.8	4340.3	4271.0	4272.8	4546.3	4843.8	3725.0
35°	5804.6	5775.0	5616.1	5293.7	4974.0	4757.9	4639.6	4629.4	4798.5	5099.7	3829.4
37.5°	6511.3	6514.1	6347.8	5993.1	5589.3	5248.4	5081.2	5053.5	5153.3	5454.5	4003.1
40°	7001.9	7011.2	6941.9	6756.2	6328.4	5846.2	5600.4	5571.8	5613.4	5903.4	4230.3
42.5°	7261.5	7287.4	7306.8	7350.2	7025.9	6592.6	6214.8	6212.0	6168.6	6415.3	4493.6
45°	7271.7	7310.5	7428.7	7725.3	7762.2	7444.4	7033.3	6971.4	6804.2	6963.1	4729.2
47.5°	6869.8	6959.4	7210.7	7798.3	8186.3	8291.6	7884.2	7846.3	7377.0	7396.4	4905.7
50°	5933.0	6026.3	6489.2	7424.1	8293.5	8964.2	8818.2	8739.7	7855.6	7682.8	4990.7
52.5°	4972.2	5057.2	5371.3	6533.5	7849.1	9175.7	9605.3	9512.0	8285.1	7782.6	4955.6
55°	3459.8	3573.5	3880.2	4883.5	6825.5	8763.7	9865.9	9846.5	8668.6	7719.7	4901.1
57.5°	1696.2	1808.9	2114.7	3010.8	5056.3	7651.4	9467.7	9570.2	8897.7	7652.3	4856.7
60°	708.6	754.8	860.1	1321.1	2828.9	5782.4	8568.8	8711.0	8757.2	7560.8	4852.1
62.5°	411.1	418.5	429.6	547.8	1100.3	3314.8	7108.2	7310.5	8019.1	7439.8	4779.1
65°	310.4	313.2	308.6	336.3	454.5	1257.4	5135.7	5411.0	6693.3	6966.8	4490.9
67.5°	255.0	255.0	243.0	248.5	285.5	471.2	2835.3	3219.6	4952.8	5726.1	3708.4
70°	203.2	207.9	202.3	194.9	204.2	260.5	1008.9	1250.9	2884.3	3381.3	2162.7
72.5°	154.3	154.3	163.5	158.0	151.5	163.5	352.0	395.4	1157.6	1409.8	780.7
75°	119.2	122.9	129.3	123.8	114.6	97.0	169.1	179.2	349.2	328.0	174.6
77.5°	61.0	61.9	82.2	90.5	85.0	59.1	73.9	81.3	113.6	101.6	64.7
80°	37.0	38.8	46.2	71.1	56.4	31.4	30.5	32.3	53.6	46.2	26.8
82.5°	15.7	16.6	25.9	25.9	23.1	12.0	12.0	12.0	25.9	24.0	11.1
85°	0.0	0.0	4.6	3.7	3.7	4.6	4.6	4.6	6.5	9.2	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	2.8
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°	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9
2.5°	2791.9	2732.8	2653.3	2581.3	2484.3	2429.7	2354.0	2292.1	2239.4	2222.8	2215.4
5°	2792.8	2691.2	2521.2	2351.2	2142.4	1978.0	1808.9	1675.0	1565.0	1529.9	1520.7
7.5°	2811.3	2661.6	2386.3	2077.8	1728.5	1440.3	1182.5	951.6	844.4	808.4	801.0
10°	2836.2	2636.7	2230.2	1749.8	1248.1	877.7	621.8	473.9	403.7	364.9	370.5
12.5°	2868.6	2616.4	2057.4	1395.0	825.9	482.3	341.8	286.4	271.6	264.2	260.5
15°	2912.0	2592.3	1843.1	1043.0	506.3	310.4	263.3	248.5	243.0	239.3	238.4
17.5°	2956.3	2564.6	1625.1	733.5	336.3	257.8	236.5	229.1	225.4	222.6	221.7
20°	3003.5	2517.5	1369.2	505.3	265.1	231.9	218.0	209.7	205.1	200.5	199.6
22.5°	3023.8	2441.8	1124.3	353.8	235.6	213.4	195.9	185.7	180.2	176.5	176.5
25°	3004.4	2318.9	871.2	268.8	214.3	193.1	175.5	164.4	159.8	156.1	156.1
27.5°	2952.6	2160.9	635.6	222.6	191.2	171.8	155.2	145.0	141.4	139.5	139.5
30°	2895.4	1961.3	448.1	191.2	165.4	149.7	135.8	129.3	128.4	126.6	126.6
32.5°	2846.4	1774.7	308.6	168.1	146.0	130.3	121.0	118.3	119.2	117.3	118.3
35°	2819.6	1591.8	229.1	149.7	130.3	115.5	110.9	110.9	110.9	109.9	109.9
37.5°	2830.7	1411.7	186.6	136.7	116.4	105.3	100.7	102.5	104.4	104.4	104.4
40°	2886.1	1251.8	165.4	124.7	104.4	96.1	92.4	95.2	97.9	99.8	99.8
42.5°	2956.3	1122.5	149.7	114.6	96.1	86.8	85.0	87.8	90.5	92.4	92.4
45°	3000.7	992.2	134.0	101.6	87.8	76.7	76.7	80.4	79.5	80.4	80.4
47.5°	3021.0	888.8	118.3	87.8	74.8	66.5	67.4	69.3	67.4	69.3	69.3
50°	2971.1	784.4	104.4	73.0	61.9	58.2	60.1	59.1	59.1	62.8	62.8
52.5°	2879.7	706.8	92.4	61.9	52.7	51.7	53.6	49.9	50.8	50.8	49.9
55°	2812.2	662.4	82.2	53.6	45.3	46.2	45.3	38.8	35.1	31.4	30.5
57.5°	2779.0	644.9	74.8	48.0	40.6	40.6	37.0	26.8	20.3	15.7	13.9
60°	2771.6	623.6	67.4	41.6	36.0	34.2	26.8	15.7	10.2	7.4	6.5
62.5°	2701.4	571.9	61.0	33.3	31.4	27.7	16.6	9.2	5.5	3.7	2.8
65°	2471.3	470.2	54.5	25.9	24.0	20.3	10.2	5.5	2.8	0.9	0.0
67.5°	1966.0	333.5	48.0	19.4	16.6	12.9	6.5	3.7	0.9	0.0	0.0
70°	1133.6	180.2	39.7	13.9	11.1	8.3	4.6	1.8	0.0	0.0	0.0
72.5°	378.8	84.1	30.5	9.2	8.3	6.5	2.8	0.9	0.0	0.0	0.0
75°	83.1	49.9	20.3	6.5	5.5	4.6	1.8	0.0	0.0	0.0	0.0
77.5°	31.4	35.1	10.2	4.6	3.7	2.8	0.9	0.0	0.0	0.0	0.0
80°	12.0	23.1	4.6	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	9.2	2.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	4.6	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.9	0.9	0.0	0.0	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)