

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: P637897

Luminaire Tested: GWS-SA4D-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637897
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-SA4D-760-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19341.1 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

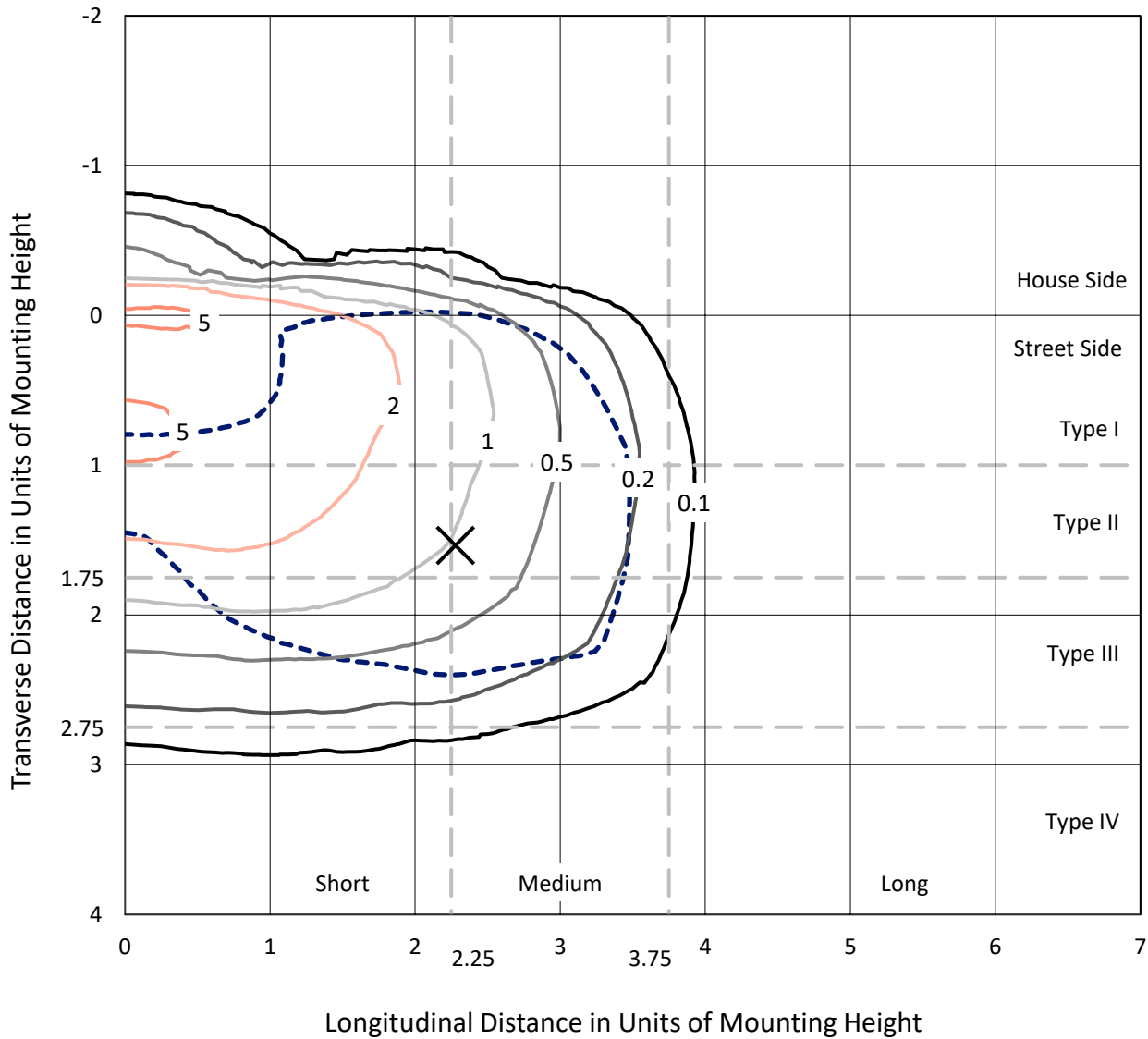
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

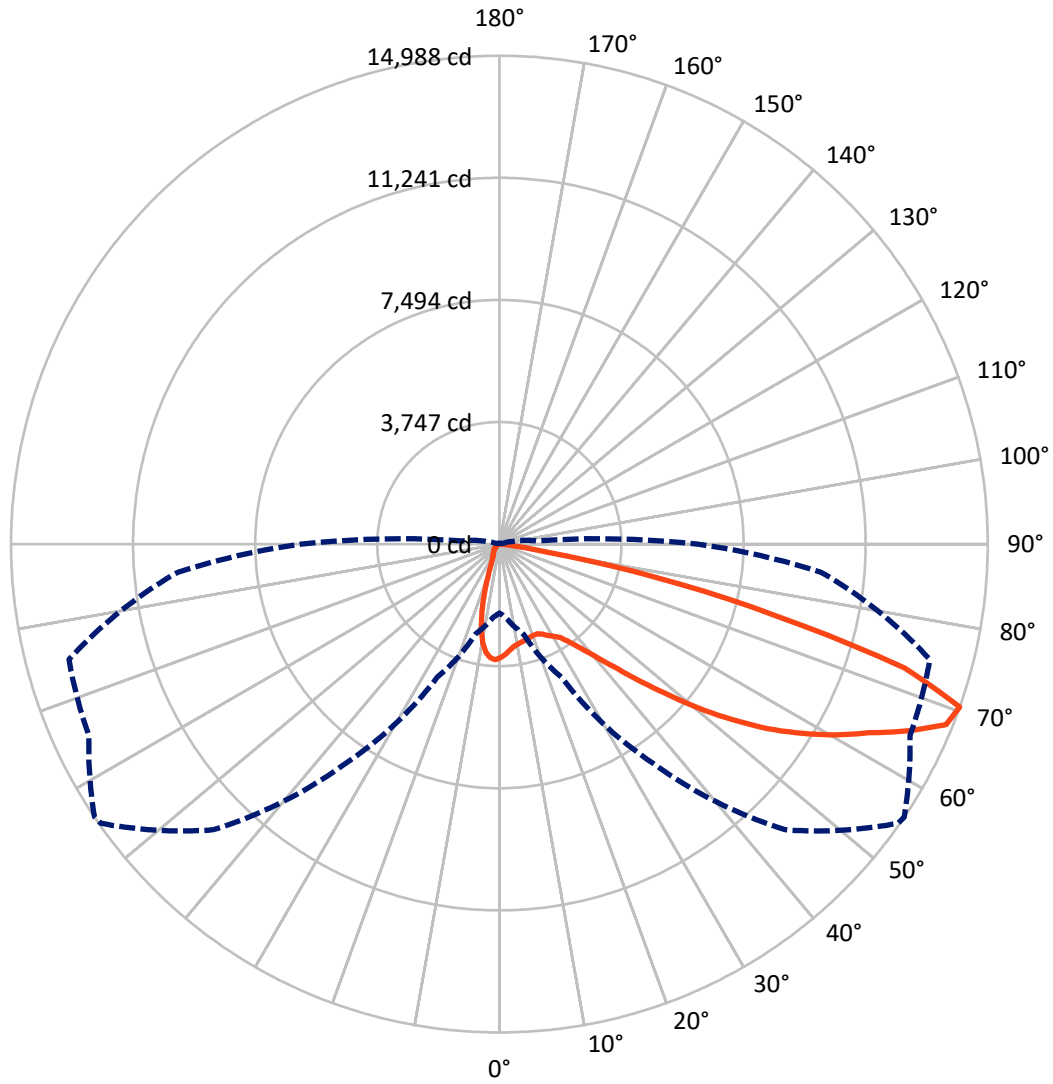
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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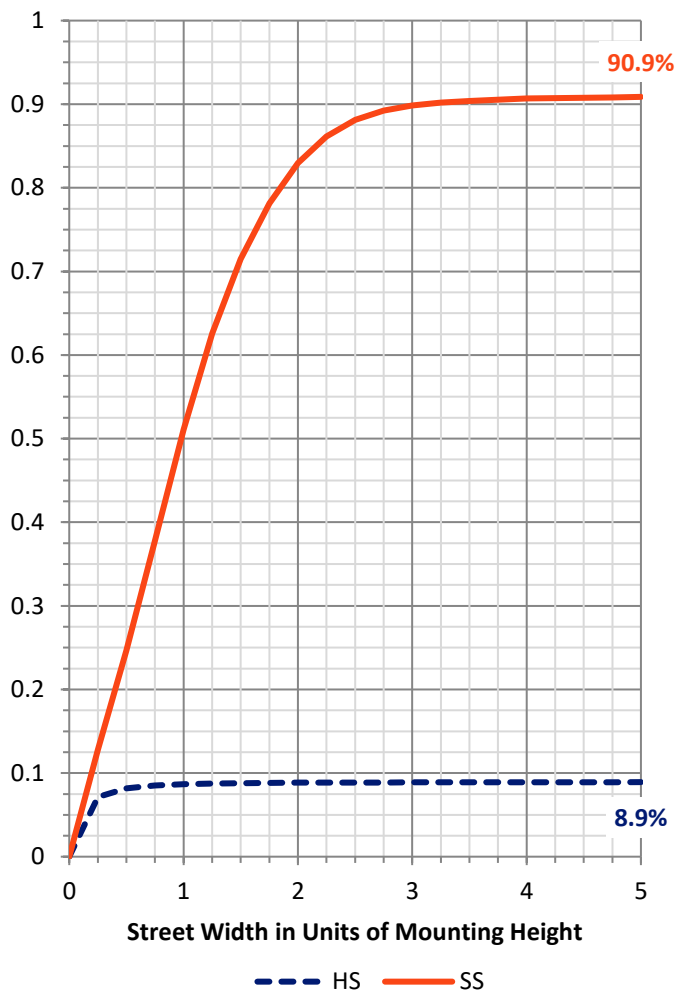
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1737.2	0.0	1737.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	17603.9	0.0	17603.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	19341.1	0.0	19341.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	1.5
10°-20°	673.4	3.5
20°-30°	1066.7	5.5
30°-40°	1839.6	9.5
40°-50°	3106.4	16.1
50°-60°	4564.3	23.6
60°-70°	5411.2	28.0
70°-80°	2307.6	11.9
80°-90°	72.5	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°	19341.1	100.0
0°-180°	19341.1	100.0

Coefficient of Utilization



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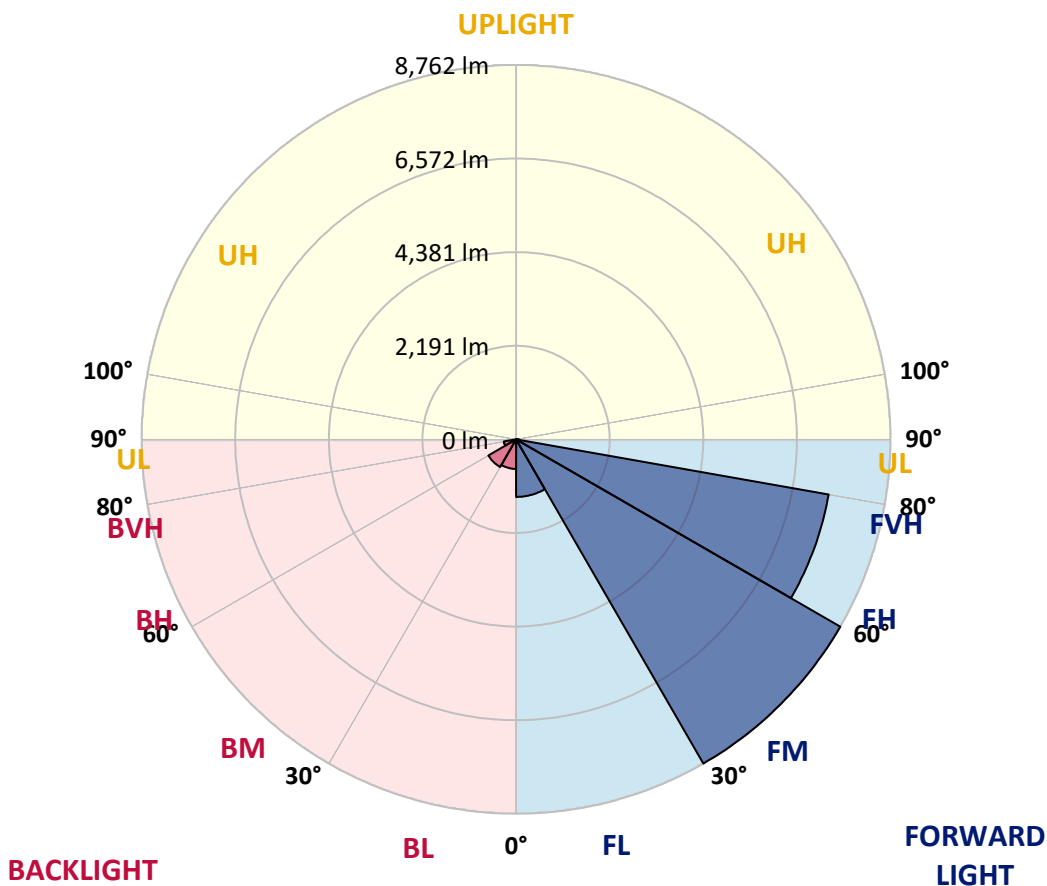
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.7	7.0			
FM (30°-60°)	8762.0	45.3			
FH (60°-80°)	7429.1	38.4			G3/7500
FVH (80°-90°)	65.1	0.3			G1/100
BL (0°-30°)	691.9	3.6	B2/1000		
BM (30°-60°)	748.2	3.9	B1/1000		
BH (60°-80°)	289.7	1.5	B1/500		G1/500
BVH (80°-90°)	7.4	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4
2.5°	3246.5	3241.2	3244.7	3271.3	3320.9	3343.9	3382.9	3390.0	3421.9	3462.6	3478.5
5°	3035.8	3018.0	3026.9	3064.1	3120.8	3184.5	3257.1	3276.6	3356.3	3446.7	3514.0
7.5°	2842.7	2823.2	2844.5	2902.9	2982.6	3051.7	3159.7	3172.1	3299.7	3459.1	3581.3
10°	2539.8	2545.1	2587.7	2690.4	2812.6	2956.0	3101.3	3119.0	3276.6	3499.8	3689.3
12.5°	2307.8	2295.4	2341.5	2458.4	2630.2	2839.2	3057.0	3080.0	3278.4	3561.8	3827.5
15°	2199.8	2196.2	2215.7	2300.7	2467.2	2713.4	3016.3	3046.4	3301.4	3618.5	3958.5
17.5°	2203.3	2198.0	2196.2	2245.8	2369.8	2619.5	2972.0	3011.0	3320.9	3680.5	4096.7
20°	2357.4	2332.6	2288.3	2265.3	2339.7	2559.3	2941.9	2986.2	3349.2	3746.0	4243.7
22.5°	2679.8	2688.6	2569.9	2446.0	2410.5	2566.4	2938.3	2989.7	3411.2	3848.7	4424.3
25°	3324.4	3310.3	3090.7	2812.6	2619.5	2647.9	3000.3	3062.3	3533.4	3995.7	4594.4
27.5°	4132.1	4144.5	3843.4	3400.6	2996.8	2816.1	3113.7	3175.7	3675.1	4087.8	4707.7
30°	5012.4	5000.0	4677.6	4187.0	3531.7	3096.0	3227.0	3281.9	3746.0	4137.4	4824.6
32.5°	5844.8	5816.5	5497.7	4984.0	4213.6	3537.0	3382.9	3414.8	3839.9	4245.4	4982.2
35°	6555.0	6553.3	6275.2	5727.9	4914.9	4089.6	3650.3	3676.9	4015.2	4417.2	5214.3
37.5°	7288.3	7263.5	6951.8	6452.3	5635.8	4695.3	4059.5	4048.8	4291.5	4670.5	5499.4
40°	7890.5	7874.5	7635.4	7155.4	6385.0	5364.8	4555.4	4523.5	4619.2	5021.2	5896.2
42.5°	8336.8	8338.6	8264.2	7971.9	7178.5	6138.8	5178.8	5129.3	5127.5	5550.8	6420.4
45°	8675.1	8698.1	8809.7	8765.4	8115.4	7040.3	5977.6	5926.3	5839.5	6238.0	7020.8
47.5°	8832.7	8862.8	9199.4	9376.5	8935.5	7934.8	6928.7	6820.7	6650.7	7151.9	7692.1
50°	8816.8	8869.9	9339.3	9877.7	9679.3	8841.6	7964.9	7913.5	7635.4	8119.0	8356.3
52.5°	8455.5	8568.8	9348.1	10182.3	10251.4	9677.6	9036.4	8940.8	8806.2	9128.5	8979.7
55°	7474.3	7612.4	8974.4	10279.8	10697.7	10407.3	10084.9	10007.0	9783.8	10081.4	9523.5
57.5°	6941.1	7059.8	8188.0	10231.9	11076.8	11082.1	11018.3	10954.6	10770.4	11023.6	10161.1
60°	6620.6	6739.2	7768.3	10056.6	11420.4	11794.1	11895.0	11888.0	11622.3	12095.2	10908.5
62.5°	6151.2	6314.2	7330.8	9601.4	11664.8	12495.5	12800.1	12752.3	12456.5	13211.0	11648.9
65°	5203.6	5345.3	6434.6	8850.4	11521.3	13076.4	13781.3	13806.1	13464.3	14261.3	12233.3
67.5°	3648.6	3753.1	4835.2	7274.1	10547.2	13267.7	14785.6	14783.8	14201.1	14799.7	11974.7
70°	2114.8	2258.2	2856.9	4497.0	8205.7	12398.1	14936.1	14987.5	13901.8	13675.1	9909.6
72.5°	818.3	936.9	1618.8	2389.3	4279.1	9496.9	12847.9	12998.5	11634.7	10549.0	6896.9
75°	244.4	272.8	761.6	1271.7	1718.0	4587.3	8698.1	8740.6	7980.8	6579.8	3535.2
77.5°	182.4	201.9	333.0	642.9	602.2	1390.4	4500.5	4914.9	4236.6	2350.3	974.1
80°	124.0	147.0	237.3	313.5	223.2	370.2	1264.6	1388.6	1292.9	527.8	244.4
82.5°	54.9	70.8	168.3	157.6	81.5	106.3	389.7	414.4	267.4	159.4	85.0
85°	5.3	7.1	63.8	69.1	30.1	24.8	81.5	81.5	58.4	54.9	35.4
87.5°	0.0	0.0	1.8	3.5	3.5	5.3	7.1	8.9	10.6	14.2	17.7
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°	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4
2.5°	3519.3	3498.0	3524.6	3545.8	3551.2	3512.2	3489.2	3455.5	3448.4	3450.2	3441.3
5°	3567.1	3556.5	3576.0	3552.9	3492.7	3379.4	3281.9	3173.9	3115.5	3081.8	3078.3
7.5°	3655.7	3650.3	3629.1	3524.6	3336.8	3085.3	2842.7	2605.4	2458.4	2405.2	2396.4
10°	3786.7	3776.1	3689.3	3441.3	3041.1	2557.5	2150.2	1810.1	1602.9	1542.7	1468.3
12.5°	3937.3	3916.0	3726.5	3262.5	2594.7	1925.2	1416.9	1036.1	857.2	804.1	804.1
15°	4082.5	4036.5	3705.2	2966.7	2045.7	1252.2	791.7	598.6	543.7	529.6	529.6
17.5°	4231.3	4142.7	3622.0	2562.9	1413.4	740.3	527.8	490.6	483.5	485.3	487.1
20°	4371.2	4233.0	3475.0	2077.6	901.5	517.2	472.9	464.0	460.5	464.0	462.3
22.5°	4523.5	4316.3	3251.8	1548.0	586.3	465.8	449.9	442.8	439.2	444.6	444.6
25°	4674.1	4376.5	2956.0	1041.4	465.8	433.9	425.1	418.0	414.4	416.2	416.2
27.5°	4752.0	4353.5	2568.2	664.2	418.0	402.1	393.2	384.3	379.0	377.3	379.0
30°	4805.1	4282.6	2093.5	472.9	379.0	359.5	350.7	343.6	329.4	320.6	324.1
32.5°	4888.4	4211.8	1578.1	396.7	347.1	317.0	302.9	285.2	265.7	256.8	256.8
35°	4987.6	4114.4	1107.0	357.8	313.5	281.6	255.0	224.9	201.9	194.8	194.8
37.5°	5118.6	4022.3	736.8	331.2	285.2	251.5	214.3	178.9	154.1	150.5	148.8
40°	5315.2	3944.4	518.9	311.7	260.4	219.6	175.3	138.1	120.4	115.1	115.1
42.5°	5570.3	3864.6	410.9	292.2	239.1	189.5	139.9	109.8	95.6	92.1	90.3
45°	5885.5	3770.8	357.8	274.5	217.9	157.6	111.6	92.1	81.5	77.9	77.9
47.5°	6227.4	3643.3	333.0	251.5	193.1	127.5	93.9	79.7	74.4	72.6	70.8
50°	6563.9	3471.5	311.7	230.2	164.7	104.5	81.5	72.6	69.1	67.3	67.3
52.5°	6857.9	3271.3	285.2	205.5	134.6	90.3	72.6	67.3	63.8	60.2	58.4
55°	7109.4	3053.5	251.5	177.1	109.8	79.7	67.3	62.0	58.4	54.9	53.1
57.5°	7433.5	2929.5	201.9	143.5	90.3	70.8	62.0	56.7	53.1	47.8	47.8
60°	7793.1	2839.2	150.5	113.4	77.9	65.5	56.7	51.4	47.8	42.5	42.5
62.5°	8081.8	2704.5	118.7	92.1	67.3	58.4	51.4	46.0	42.5	37.2	37.2
65°	8191.6	2426.5	97.4	72.6	54.9	51.4	46.0	42.5	37.2	31.9	31.9
67.5°	7695.6	1870.3	81.5	58.4	46.0	44.3	40.7	39.0	31.9	28.3	26.6
70°	6094.5	1140.6	67.3	47.8	39.0	37.2	37.2	33.7	28.3	26.6	24.8
72.5°	4176.4	588.0	54.9	39.0	33.7	33.7	31.9	30.1	26.6	24.8	24.8
75°	2169.7	196.6	42.5	30.1	26.6	28.3	28.3	26.6	24.8	24.8	23.0
77.5°	621.7	88.6	31.9	23.0	21.3	21.3	23.0	23.0	23.0	21.3	21.3
80°	161.2	51.4	23.0	17.7	17.7	17.7	17.7	19.5	21.3	19.5	19.5
82.5°	65.5	28.3	15.9	14.2	14.2	14.2	14.2	15.9	17.7	17.7	17.7
85°	40.7	14.2	12.4	12.4	12.4	10.6	10.6	12.4	12.4	14.2	14.2
87.5°	24.8	10.6	10.6	10.6	10.6	8.9	8.9	8.9	8.9	8.9	8.9
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)