

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: P638031

Luminaire Tested: GWS-SA4E-722-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17869.2 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

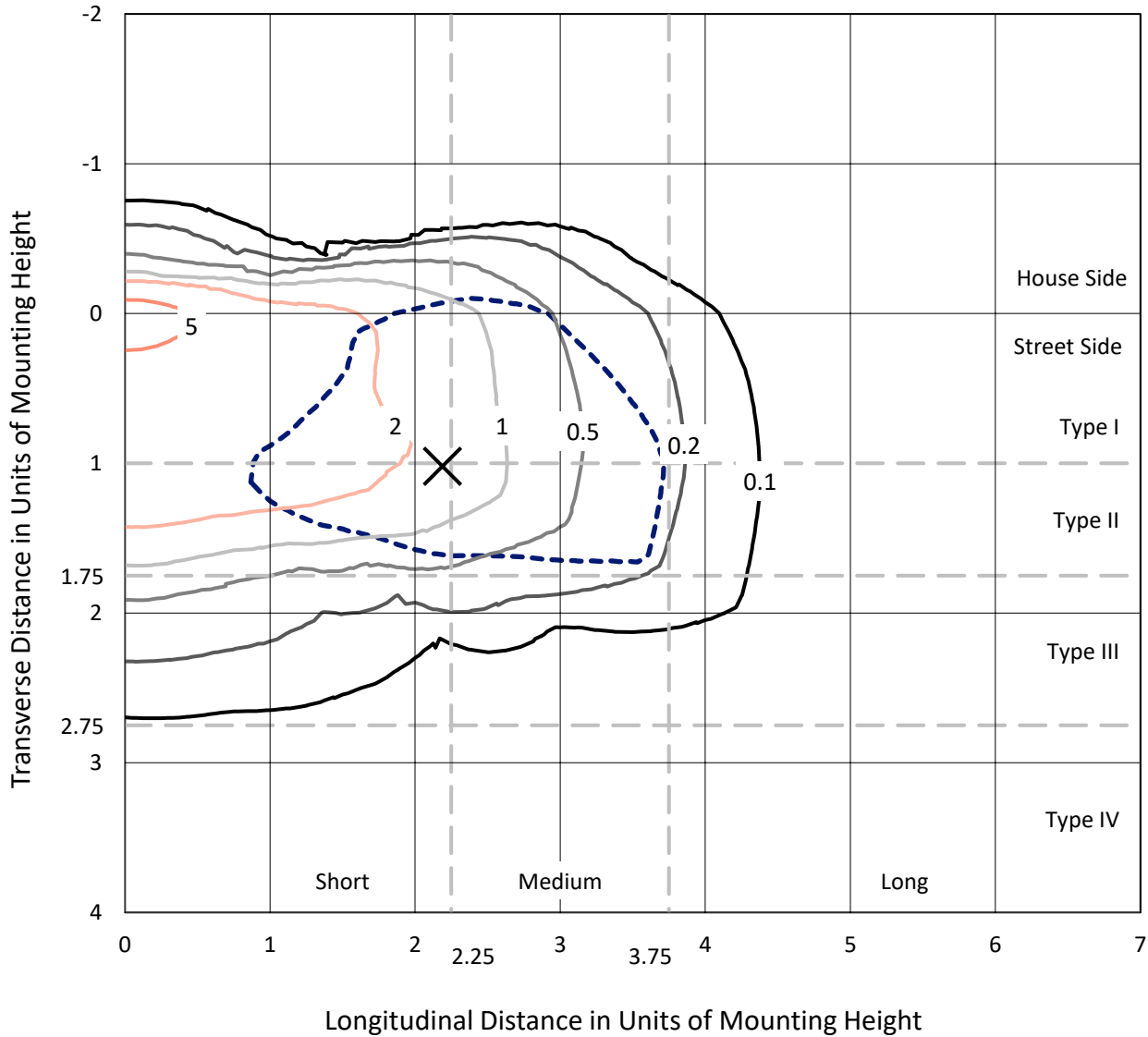
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

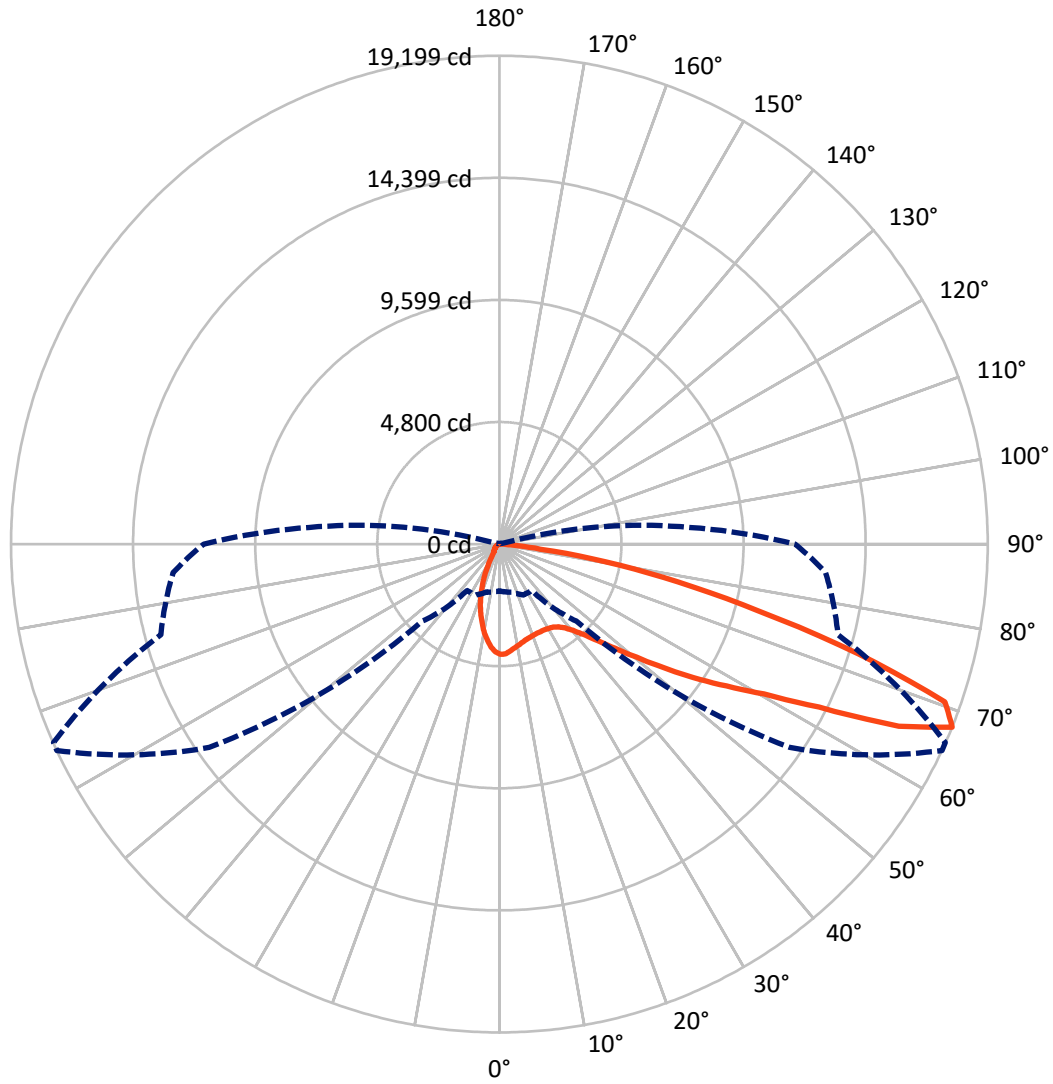
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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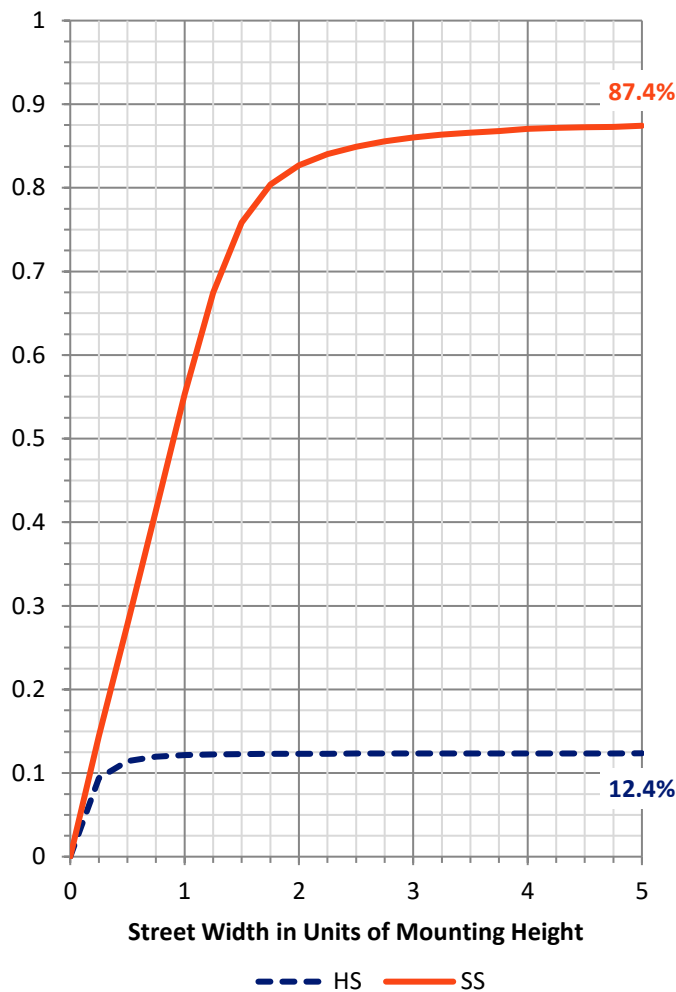
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2231.3	0.0	2231.3
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	15637.9	0.0	15637.9
	% Fixture	87.5	0.0	87.5
Total	Lumens	17869.2	0.0	17869.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	2.0
10°-20°	809.1	4.5
20°-30°	1156.2	6.5
30°-40°	1682.2	9.4
40°-50°	2634.5	14.7
50°-60°	4110.0	23.0
60°-70°	4514.6	25.3
70°-80°	2402.6	13.4
80°-90°	200.0	1.1
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°	17869.2	100.0
0°-180°	17869.2	100.0

Coefficient of Utilization



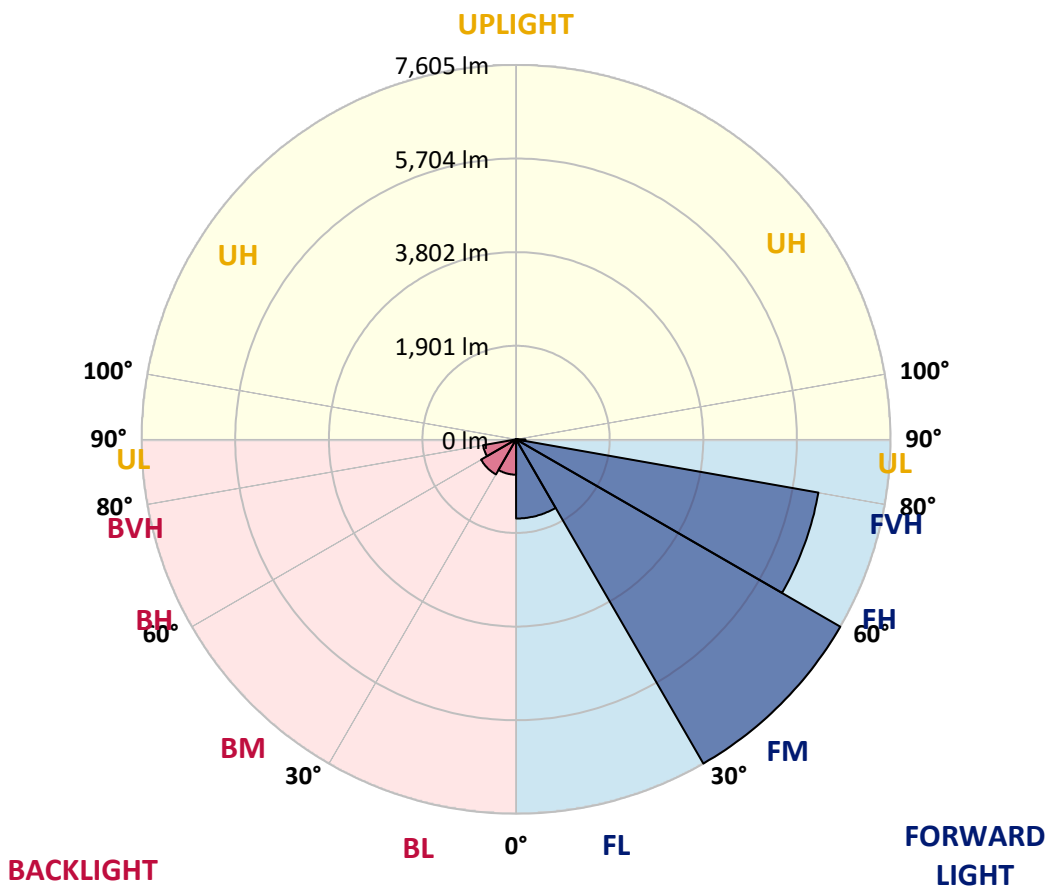
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.1	9.0			
FM (30°-60°)	7604.8	42.6			
FH (60°-80°)	6235.7	34.9			G3/7500
FVH (80°-90°)	189.3	1.1			G2/225
BL (0°-30°)	717.2	4.0	B2/1000		
BM (30°-60°)	821.9	4.6	B1/1000		
BH (60°-80°)	681.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8
2.5°	4183.6	4196.5	4178.7	4222.3	4230.4	4278.9	4306.4	4325.8	4324.1	4348.4	4348.4
5°	3937.9	3950.9	3941.2	3988.0	4025.2	4101.2	4164.2	4236.9	4240.1	4314.5	4341.9
7.5°	3729.5	3731.1	3731.1	3789.3	3837.8	3931.5	4025.2	4136.7	4149.6	4264.4	4337.1
10°	3558.2	3563.1	3564.7	3630.9	3684.3	3797.4	3916.9	4051.1	4065.6	4220.7	4333.8
12.5°	3440.3	3441.9	3448.3	3517.8	3576.0	3693.9	3815.1	3968.7	3988.0	4170.6	4319.3
15°	3383.7	3380.5	3383.7	3441.9	3500.0	3613.2	3737.6	3902.4	3923.4	4128.6	4320.9
17.5°	3380.5	3375.6	3372.4	3416.0	3453.2	3553.4	3679.4	3858.8	3881.4	4109.2	4338.7
20°	3427.3	3424.1	3407.9	3427.3	3435.4	3517.8	3642.2	3824.8	3847.5	4106.0	4377.5
22.5°	3550.1	3542.1	3517.8	3500.0	3456.4	3504.9	3616.4	3800.6	3826.5	4114.1	4427.6
25°	3732.7	3729.5	3698.8	3655.2	3543.7	3524.3	3618.0	3800.6	3824.8	4123.8	4480.9
27.5°	4007.4	3988.0	3949.3	3873.3	3713.3	3600.2	3650.3	3810.3	3834.5	4136.7	4524.5
30°	4287.0	4285.4	4272.4	4194.9	3957.3	3745.7	3718.2	3836.1	3858.8	4148.0	4564.9
32.5°	4576.2	4581.1	4613.4	4553.6	4293.4	3962.2	3841.0	3889.5	3905.6	4170.6	4600.5
35°	4850.9	4860.6	4946.3	4967.3	4702.3	4290.2	4041.4	3996.1	3997.7	4220.7	4647.3
37.5°	5114.3	5146.6	5284.0	5385.8	5211.3	4687.7	4330.6	4177.1	4164.2	4320.9	4718.4
40°	5413.3	5474.7	5647.6	5820.5	5765.5	5212.9	4724.9	4455.0	4427.6	4505.1	4846.1
42.5°	5744.5	5810.8	6040.2	6282.6	6308.5	5847.9	5217.7	4860.6	4813.8	4815.4	5085.2
45°	6100.0	6188.9	6455.5	6804.6	6961.3	6555.7	5825.3	5408.4	5361.6	5292.1	5469.8
47.5°	6567.0	6644.6	6901.5	7303.9	7604.4	7315.2	6622.0	6112.9	6027.3	5925.5	6067.7
50°	6969.4	7037.2	7258.6	7762.8	8388.1	8294.4	7525.2	6993.6	6911.2	6738.3	6856.3
52.5°	7058.3	7111.6	7315.2	7882.4	8987.6	9530.6	8632.1	8058.5	8000.3	7680.4	7725.6
55°	6659.1	6739.9	6922.5	7552.7	9144.4	10739.3	10068.7	9259.1	9137.9	8627.3	8708.1
57.5°	5650.8	5794.6	5965.9	6785.2	8719.4	11382.4	12075.6	10530.8	10420.9	9538.7	9540.3
60°	4141.6	4257.9	4372.6	5122.4	7711.1	11338.8	13896.7	11959.3	11758.9	10283.6	10256.1
62.5°	3012.0	3071.8	3070.2	3336.8	5295.3	10592.2	14853.4	14111.7	13644.7	11080.2	10923.5
65°	2368.9	2367.3	2436.8	2524.0	2957.1	8176.5	14971.3	17254.6	16750.4	12148.3	11821.9
67.5°	1843.7	1879.3	1948.8	2205.7	2221.9	4278.9	13933.9	19198.5	19188.8	13778.8	12873.9
70°	1422.0	1470.5	1569.0	1943.9	2052.2	2394.8	10425.8	18582.9	18739.6	14507.6	12128.9
72.5°	913.0	909.8	1055.2	1570.7	1971.4	1995.6	5765.5	14761.2	14939.0	13140.5	9806.9
75°	510.6	513.9	596.3	961.5	1837.3	1877.7	2855.3	10526.0	10666.6	10244.8	7534.9
77.5°	200.4	206.8	279.6	505.8	1211.9	1677.3	1696.7	7177.8	7198.8	6348.9	4621.5
80°	80.8	85.6	142.2	313.5	738.5	1129.5	1211.9	4228.8	4143.2	2457.8	1344.4
82.5°	24.2	25.9	56.6	177.7	386.2	803.1	817.6	1622.4	1531.9	528.4	342.6
85°	1.6	1.6	12.9	54.9	137.4	202.0	544.6	528.4	468.6	132.5	151.9
87.5°	0.0	0.0	1.6	1.6	3.2	6.5	58.2	97.0	98.6	24.2	67.9
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°	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8
2.5°	4348.4	4290.2	4285.4	4240.1	4194.9	4138.3	4072.1	4023.6	3989.7	3929.9	3918.6
5°	4341.9	4264.4	4191.6	4062.4	3918.6	3763.4	3627.7	3501.7	3422.5	3369.2	3346.5
7.5°	4329.0	4230.4	4062.4	3818.4	3577.6	3306.1	3094.4	2900.5	2768.0	2690.5	2656.5
10°	4319.3	4186.8	3913.7	3543.7	3170.4	2795.5	2473.9	2186.3	2026.3	1900.3	1879.3
12.5°	4299.9	4123.8	3723.0	3222.1	2740.6	2242.9	1832.4	1480.2	1236.2	1126.3	1087.5
15°	4280.5	4057.5	3532.4	2882.8	2272.0	1657.9	1160.2	820.9	652.8	601.1	597.9
17.5°	4277.3	3997.7	3325.5	2561.2	1780.7	1085.9	660.9	531.6	496.1	483.2	483.2
20°	4287.0	3947.6	3121.9	2191.2	1297.6	660.9	492.8	460.5	439.5	428.2	428.2
22.5°	4296.7	3895.9	2926.4	1817.9	861.3	483.2	434.7	407.2	383.0	370.0	363.6
25°	4303.1	3839.4	2709.9	1443.0	562.3	420.1	381.4	345.8	316.7	300.6	300.6
27.5°	4301.5	3771.5	2491.7	1076.2	436.3	373.3	326.4	289.2	260.2	242.4	244.0
30°	4288.6	3697.2	2265.5	751.4	381.4	326.4	279.6	240.8	211.7	197.1	195.5
32.5°	4278.9	3618.0	2003.7	528.4	342.6	286.0	237.5	200.4	176.1	164.8	163.2
35°	4267.6	3540.4	1754.9	402.4	308.6	247.2	200.4	169.7	150.3	140.6	140.6
37.5°	4270.8	3459.6	1485.0	345.8	274.7	214.9	171.3	145.4	129.3	119.6	118.0
40°	4320.9	3411.2	1220.0	313.5	244.0	185.8	148.7	126.0	109.9	100.2	98.6
42.5°	4445.3	3412.8	966.3	289.2	216.5	158.4	129.3	108.3	93.7	82.4	80.8
45°	4694.2	3480.6	741.7	263.4	187.4	137.4	111.5	92.1	77.6	67.9	66.3
47.5°	5101.4	3682.6	562.3	240.8	163.2	119.6	95.3	77.6	64.6	56.6	54.9
50°	5749.4	4047.8	442.8	213.3	137.4	103.4	80.8	64.6	53.3	45.2	43.6
52.5°	6528.2	4595.6	379.7	189.1	118.0	90.5	69.5	53.3	43.6	37.2	35.5
55°	7423.4	5250.1	350.7	164.8	100.2	77.6	56.6	43.6	35.5	30.7	27.5
57.5°	8244.3	5839.9	349.0	140.6	85.6	66.3	46.9	37.2	30.7	24.2	22.6
60°	9044.2	6332.7	328.0	116.3	74.3	54.9	40.4	30.7	25.9	21.0	19.4
62.5°	9769.7	6733.5	274.7	93.7	63.0	45.2	33.9	27.5	22.6	17.8	17.8
65°	10681.1	7244.1	210.1	75.9	51.7	37.2	29.1	24.2	21.0	16.2	16.2
67.5°	11623.2	7513.9	150.3	63.0	42.0	32.3	25.9	22.6	17.8	14.5	14.5
70°	10527.6	6348.9	108.3	51.7	35.5	27.5	22.6	21.0	17.8	14.5	12.9
72.5°	8221.7	4577.8	80.8	40.4	30.7	25.9	21.0	19.4	16.2	12.9	12.9
75°	6096.8	2669.5	61.4	32.3	24.2	21.0	21.0	19.4	16.2	12.9	11.3
77.5°	3314.2	930.8	46.9	25.9	19.4	16.2	17.8	17.8	14.5	11.3	9.7
80°	877.4	255.3	32.3	19.4	16.2	12.9	12.9	16.2	12.9	9.7	9.7
82.5°	255.3	74.3	22.6	16.2	12.9	11.3	11.3	11.3	9.7	8.1	6.5
85°	124.4	27.5	16.2	12.9	11.3	9.7	8.1	8.1	6.5	4.8	4.8
87.5°	54.9	11.3	12.9	11.3	11.3	8.1	6.5	4.8	4.8	3.2	1.6
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)