

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: P637872

Luminaire Tested: GWS-SA4D-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19466.8 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

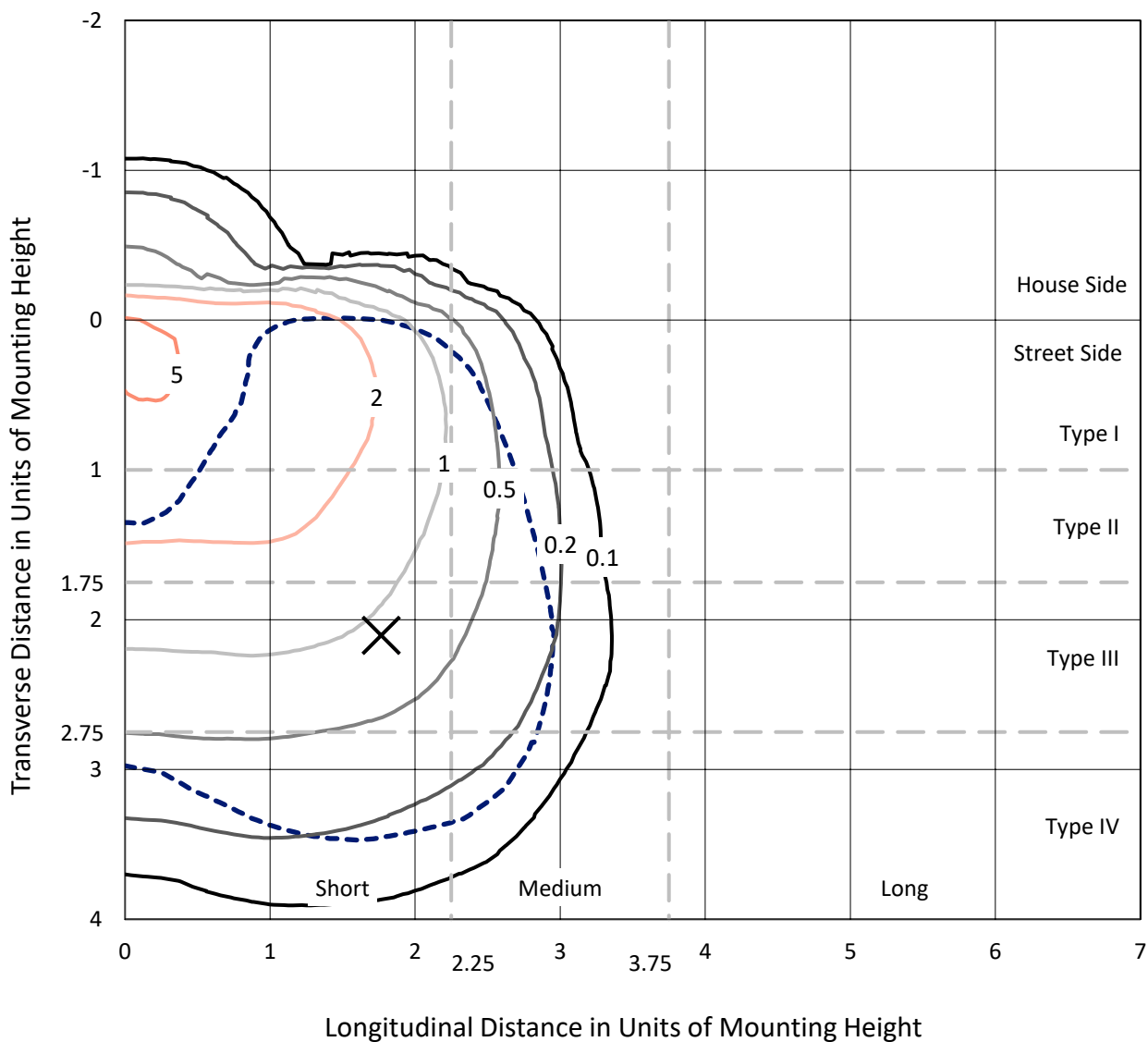
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

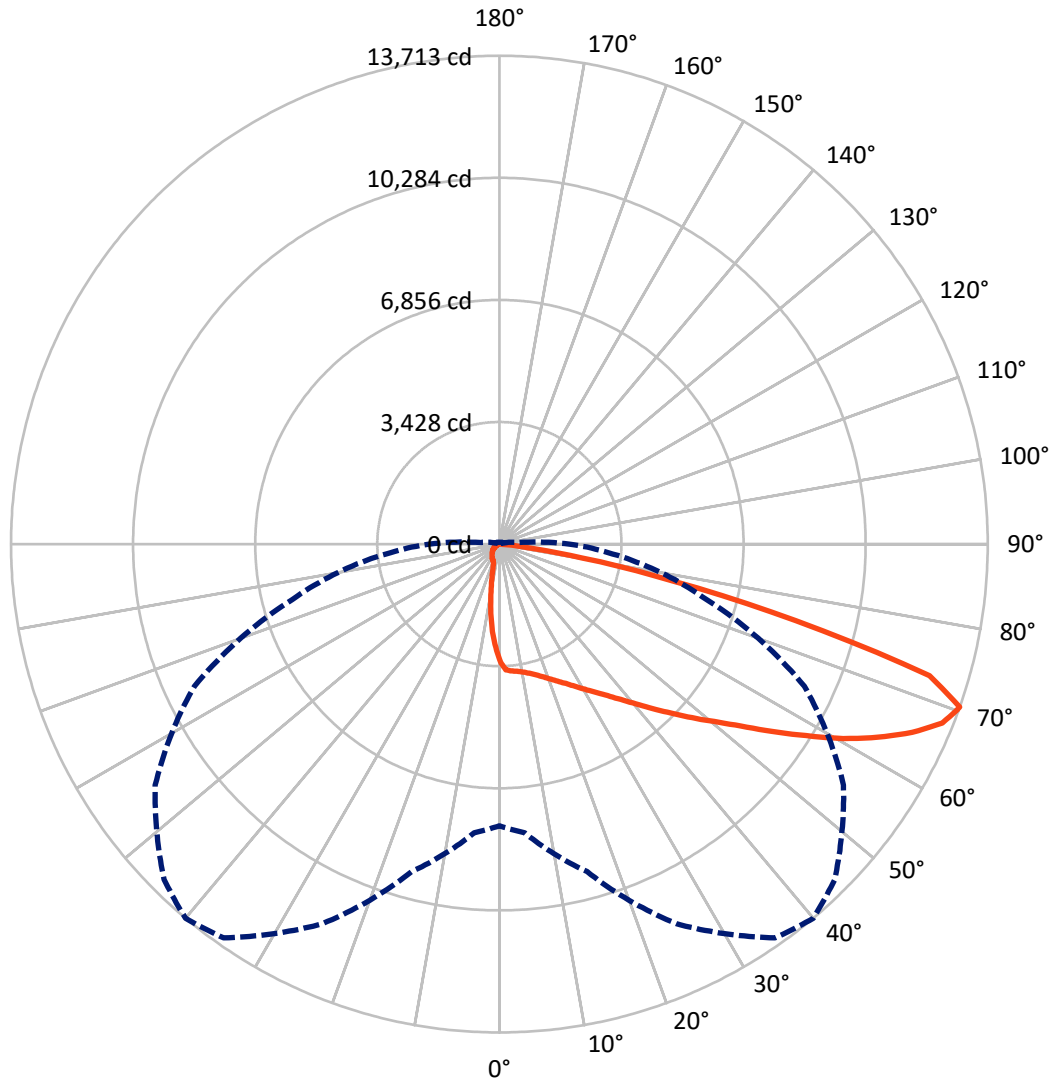
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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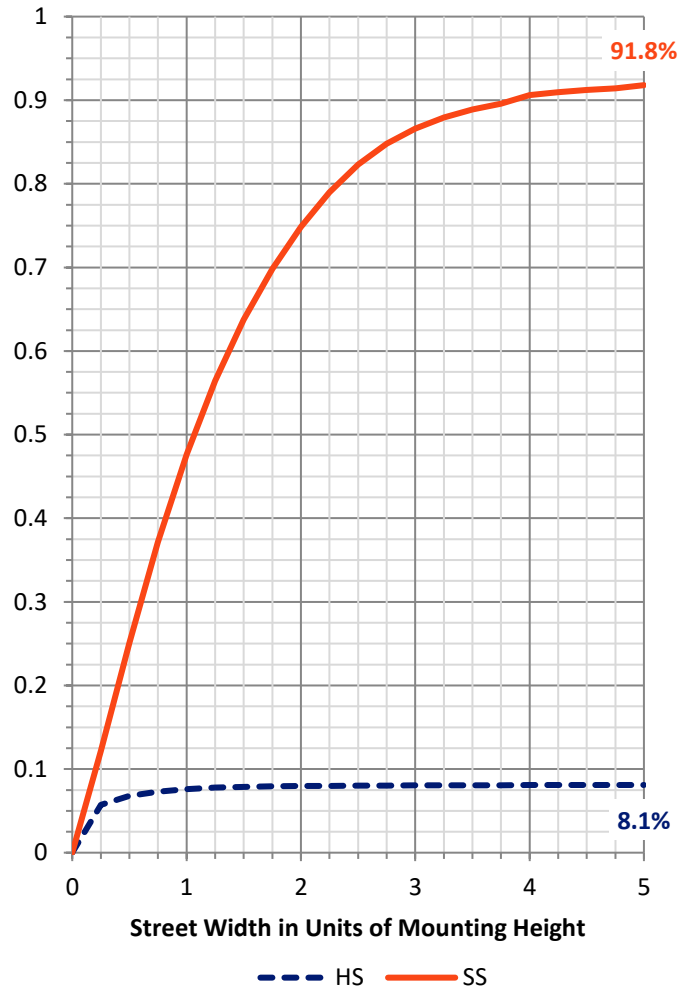
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1591.9	0.0	1591.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17874.9	0.0	17874.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	19466.8	0.0	19466.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	1.4
10°-20°	708.1	3.6
20°-30°	1185.1	6.1
30°-40°	1861.4	9.6
40°-50°	2944.3	15.1
50°-60°	4294.9	22.1
60°-70°	5324.2	27.4
70°-80°	2693.7	13.8
80°-90°	175.9	0.9
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°	19466.8	100.0
0°-180°	19466.8	100.0

Coefficient of Utilization



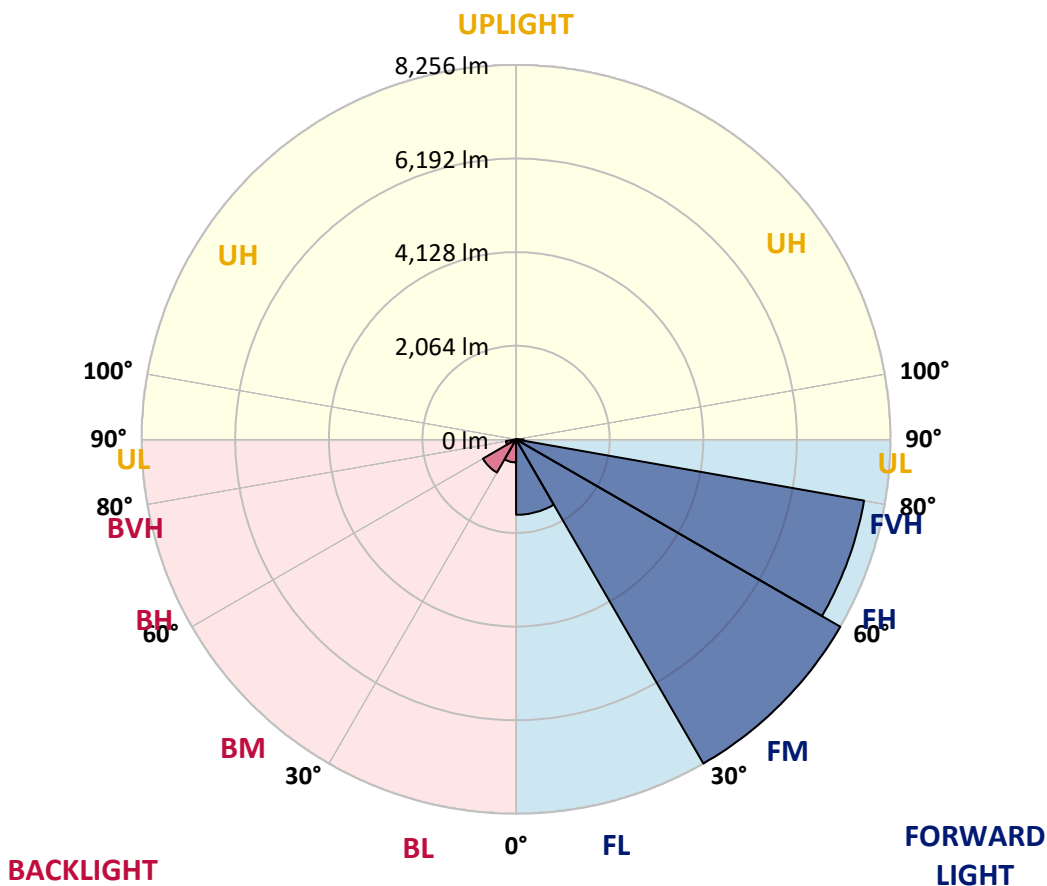
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.1	8.5			
FM (30°-60°)	8255.6	42.4			
FH (60°-80°)	7791.0	40.0			G4/12000
FVH (80°-90°)	164.3	0.8			G2/225
BL (0°-30°)	508.4	2.6	B2/1000		
BM (30°-60°)	845.0	4.3	B1/1000		
BH (60°-80°)	227.0	1.2	B1/500		G1/500
BVH (80°-90°)	11.6	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3
2.5°	3551.3	3563.6	3561.9	3567.2	3554.8	3535.3	3531.8	3505.2	3457.4	3397.2	3329.9
5°	3623.9	3638.0	3627.4	3622.1	3599.1	3577.8	3572.5	3544.2	3489.3	3407.8	3290.9
7.5°	3685.9	3689.4	3682.3	3669.9	3636.3	3607.9	3588.4	3549.5	3483.9	3402.5	3267.9
10°	3696.5	3694.7	3698.3	3700.0	3678.8	3654.0	3638.0	3584.9	3501.7	3414.9	3269.6
12.5°	3684.1	3684.1	3707.1	3733.7	3733.7	3721.3	3705.3	3657.5	3560.1	3457.4	3305.1
15°	3700.0	3705.3	3749.6	3799.2	3815.2	3802.8	3795.7	3746.1	3645.1	3531.8	3368.8
17.5°	3756.7	3762.0	3832.9	3907.3	3926.7	3912.6	3898.4	3848.8	3740.8	3616.8	3441.4
20°	3840.0	3854.1	3944.5	4040.1	4057.8	4040.1	4011.8	3942.7	3834.6	3708.9	3510.5
22.5°	3992.3	4001.1	4098.6	4199.5	4208.4	4180.0	4137.5	4041.9	3928.5	3806.3	3588.4
25°	4194.2	4206.6	4304.0	4401.4	4378.4	4335.9	4277.4	4169.4	4040.1	3921.4	3687.6
27.5°	4435.1	4449.2	4544.9	4629.9	4569.7	4520.1	4454.6	4319.9	4188.9	4080.8	3815.2
30°	4695.4	4707.8	4792.9	4869.0	4789.3	4730.9	4652.9	4514.8	4381.9	4300.5	3995.8
32.5°	4947.0	4945.2	5026.7	5088.6	5007.2	4961.1	4890.3	4750.4	4644.1	4608.7	4265.0
35°	5180.8	5180.8	5248.1	5310.0	5251.6	5226.8	5161.3	5049.7	4989.5	5032.0	4624.6
37.5°	5416.3	5403.9	5467.7	5536.8	5531.4	5533.2	5496.0	5442.9	5446.4	5597.0	5118.8
40°	5611.2	5605.8	5680.2	5770.6	5841.4	5898.1	5875.1	5894.5	6006.1	6287.7	5751.1
42.5°	5767.0	5779.4	5875.1	6018.5	6197.4	6312.5	6328.5	6408.2	6695.1	7130.8	6464.9
45°	5945.9	5947.7	6080.5	6300.1	6585.3	6767.7	6831.5	7037.0	7444.3	8005.8	7247.7
47.5°	6165.5	6144.3	6293.1	6601.3	7013.9	7283.2	7396.5	7653.3	8283.9	8859.5	7885.4
50°	6408.2	6369.2	6537.5	6957.3	7493.9	7830.5	8060.7	8436.2	9116.4	9560.9	8360.1
52.5°	6689.8	6652.6	6843.9	7366.4	8069.6	8478.7	8774.5	9153.5	9830.1	10095.8	8643.4
55°	7047.6	7010.4	7212.3	7857.0	8749.7	9281.1	9591.0	9909.8	10494.3	10490.8	8848.9
57.5°	7444.3	7393.0	7672.8	8476.9	9598.1	10150.7	10466.0	10621.9	10999.1	10797.2	8987.1
60°	7899.5	7853.5	8241.4	9215.5	10577.6	11089.5	11287.8	11224.1	11413.6	10977.9	8939.2
62.5°	8310.5	8289.2	8771.0	9998.4	11511.0	11943.2	11998.1	11720.0	11718.2	10981.4	8616.9
65°	8737.3	8778.1	9493.6	10899.9	12449.7	12740.2	12646.3	12212.4	11840.5	10547.5	7664.0
67.5°	8896.7	9015.4	9970.1	11714.7	13190.1	13416.8	13252.1	12458.6	11332.1	9088.0	5836.1
70°	7911.9	8135.1	9520.2	11760.7	13496.5	13712.6	13317.6	11796.2	9447.6	6020.3	3197.0
72.5°	6016.8	6277.1	7933.2	9630.0	12138.0	12630.4	11955.6	9610.5	6089.4	2637.3	1073.3
75°	3367.0	3648.7	5908.7	7251.3	8149.3	8599.2	8351.2	6165.5	2697.5	689.0	320.6
77.5°	1138.9	1232.8	2748.9	4486.4	5379.1	4975.3	4211.9	3062.4	991.9	262.1	170.0
80°	674.8	710.3	1023.8	2233.5	2830.4	2346.8	1852.7	1131.8	504.8	139.9	118.7
82.5°	201.9	239.1	565.0	828.9	1108.8	690.8	584.5	646.5	262.1	76.2	99.2
85°	0.0	0.0	120.4	256.8	290.5	113.4	113.4	366.6	47.8	31.9	72.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.9	5.3	7.1	15.9
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°	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3	3303.3
2.5°	3282.0	3220.0	3147.4	3078.3	3012.8	2927.8	2887.1	2837.5	2794.9	2771.9	2784.3
5°	3216.5	3119.1	2970.3	2819.7	2667.4	2524.0	2394.7	2307.9	2229.9	2189.2	2198.1
7.5°	3159.8	3028.7	2796.7	2550.5	2306.1	2059.9	1859.8	1703.9	1583.5	1533.9	1525.0
10°	3135.0	2970.3	2642.6	2288.4	1912.9	1581.7	1298.3	1126.5	1004.3	944.0	954.7
12.5°	3147.4	2940.2	2511.6	2031.6	1544.5	1158.4	887.4	726.2	639.4	604.0	595.1
15°	3182.8	2933.1	2394.7	1769.4	1192.0	809.4	612.8	547.3	529.6	526.0	526.0
17.5°	3223.6	2934.9	2274.2	1503.7	905.1	600.4	524.3	511.9	506.6	503.0	504.8
20°	3264.3	2934.9	2136.1	1234.5	680.1	519.0	499.5	490.6	485.3	483.5	483.5
22.5°	3313.9	2934.9	1982.0	984.8	545.5	492.4	476.5	471.1	465.8	464.1	462.3
25°	3374.1	2936.6	1811.9	770.5	495.9	469.4	457.0	451.7	446.3	442.8	442.8
27.5°	3460.9	2950.8	1624.2	600.4	467.6	448.1	437.5	432.2	426.9	421.5	421.5
30°	3586.7	2986.2	1413.4	495.9	441.0	425.1	414.5	410.9	405.6	400.3	398.5
32.5°	3774.4	3048.2	1195.6	444.6	416.2	400.3	387.9	384.3	379.0	373.7	372.0
35°	4036.6	3161.6	983.0	412.7	384.3	368.4	361.3	359.6	352.5	347.2	347.2
37.5°	4420.9	3345.8	779.3	380.8	357.8	345.4	336.5	333.0	325.9	320.6	318.8
40°	4890.3	3584.9	605.7	356.0	333.0	320.6	311.7	306.4	297.6	290.5	286.9
42.5°	5488.9	3877.2	478.2	329.4	310.0	297.6	290.5	279.8	267.5	256.8	255.1
45°	6112.4	4178.3	395.0	304.6	288.7	278.1	269.2	255.1	237.3	224.9	221.4
47.5°	6590.6	4366.0	345.4	278.1	265.7	256.8	246.2	228.5	207.2	193.1	189.5
50°	6932.5	4394.3	308.2	253.3	246.2	237.3	221.4	200.1	177.1	163.0	159.4
52.5°	7100.7	4266.8	278.1	230.3	224.9	216.1	196.6	173.6	148.8	134.6	131.1
55°	7176.9	4025.9	249.7	210.8	203.7	193.1	171.8	147.0	122.2	109.8	106.3
57.5°	7146.8	3669.9	224.9	191.3	182.4	170.0	147.0	120.4	101.0	88.6	86.8
60°	6923.6	3170.4	200.1	171.8	161.2	147.0	124.0	99.2	81.5	72.6	70.8
62.5°	6441.8	2550.5	175.3	148.8	141.7	127.5	106.3	81.5	67.3	62.0	60.2
65°	5455.3	1803.1	150.6	125.8	122.2	108.0	88.6	67.3	58.4	54.9	53.1
67.5°	3921.4	1096.4	127.5	108.0	104.5	92.1	74.4	58.4	53.1	51.4	51.4
70°	1971.3	519.0	101.0	88.6	88.6	76.2	63.8	53.1	51.4	49.6	49.6
72.5°	669.5	221.4	76.2	69.1	72.6	65.5	54.9	49.6	49.6	49.6	49.6
75°	228.5	116.9	53.1	49.6	53.1	53.1	47.8	47.8	49.6	49.6	49.6
77.5°	148.8	77.9	37.2	33.7	40.7	40.7	40.7	44.3	47.8	47.8	47.8
80°	122.2	42.5	24.8	23.0	30.1	30.1	33.7	40.7	44.3	44.3	44.3
82.5°	104.5	26.6	14.2	15.9	21.3	23.0	28.3	33.7	39.0	40.7	40.7
85°	70.8	14.2	10.6	12.4	14.2	17.7	23.0	28.3	31.9	35.4	35.4
87.5°	19.5	5.3	7.1	8.9	8.9	12.4	17.7	21.3	24.8	26.6	26.6
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)