

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: P637701

Luminaire Tested: GWS-SA4D-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637701
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-SA4D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19146.7 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

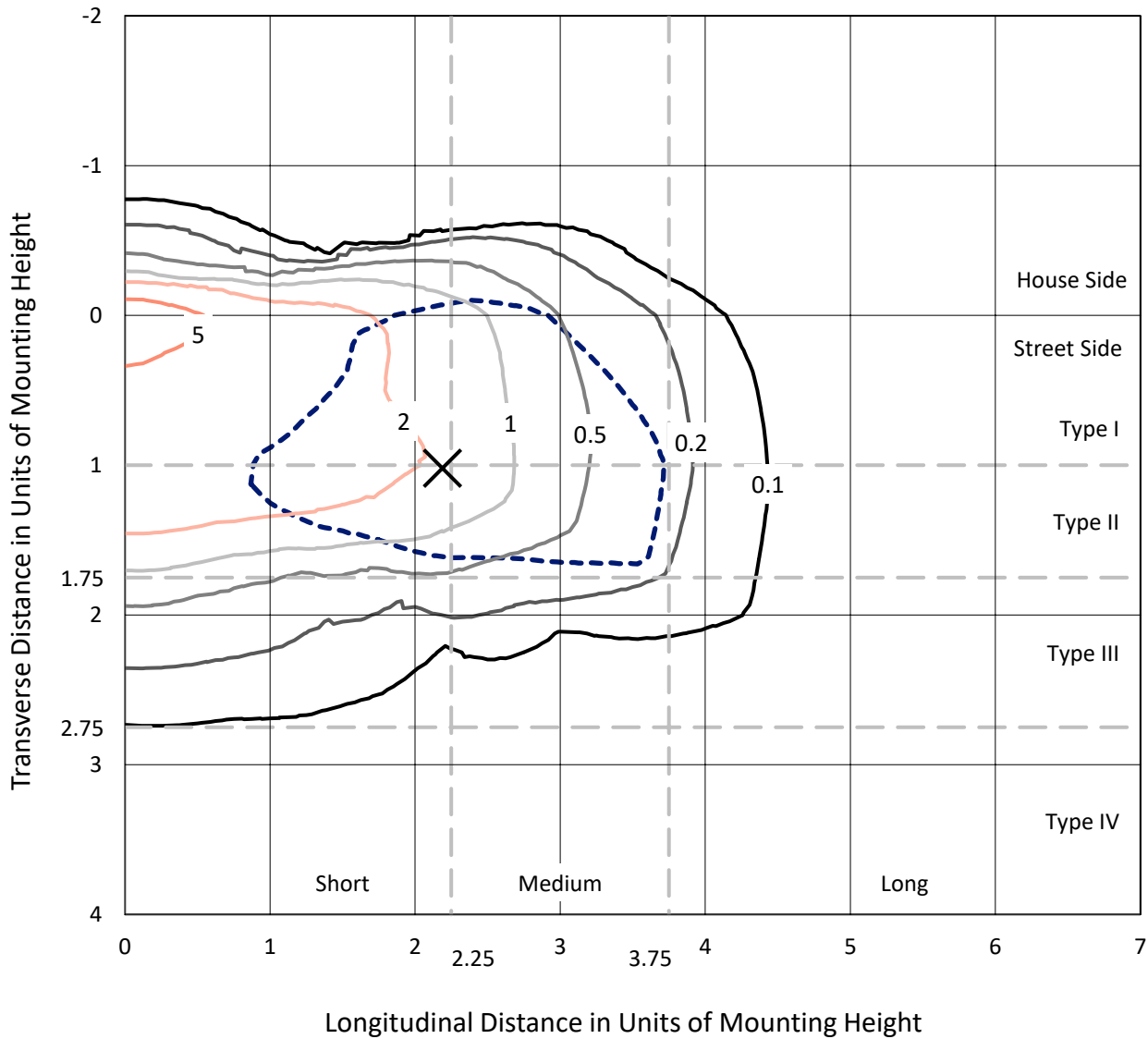
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637701
 CATALOG NUMBER: GWS-SA4D-735-U-SL2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

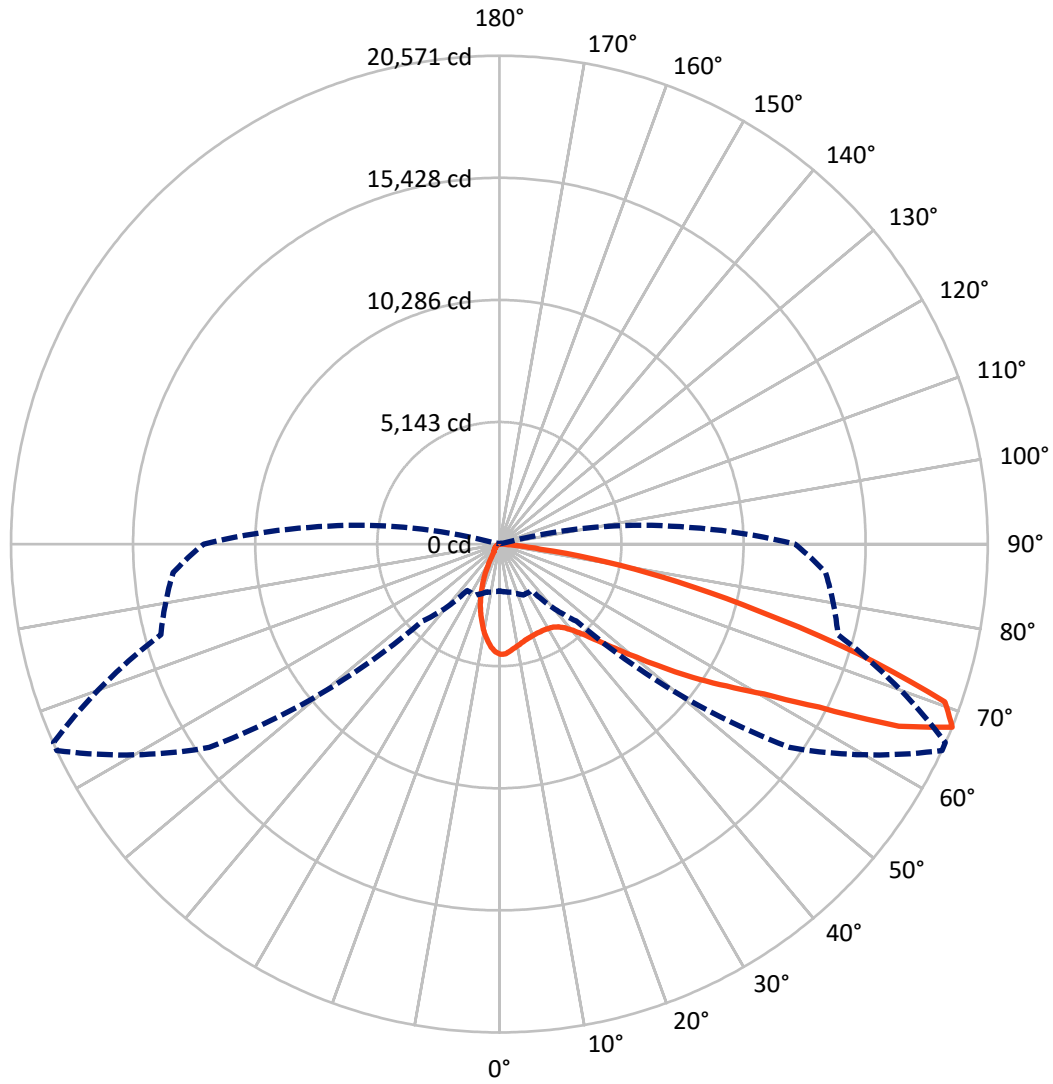
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P637701
CATALOG NUMBER: GWS-SA4D-735-U-SL2-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637701
 CATALOG NUMBER: GWS-SA4D-735-U-SL2-W-HSS

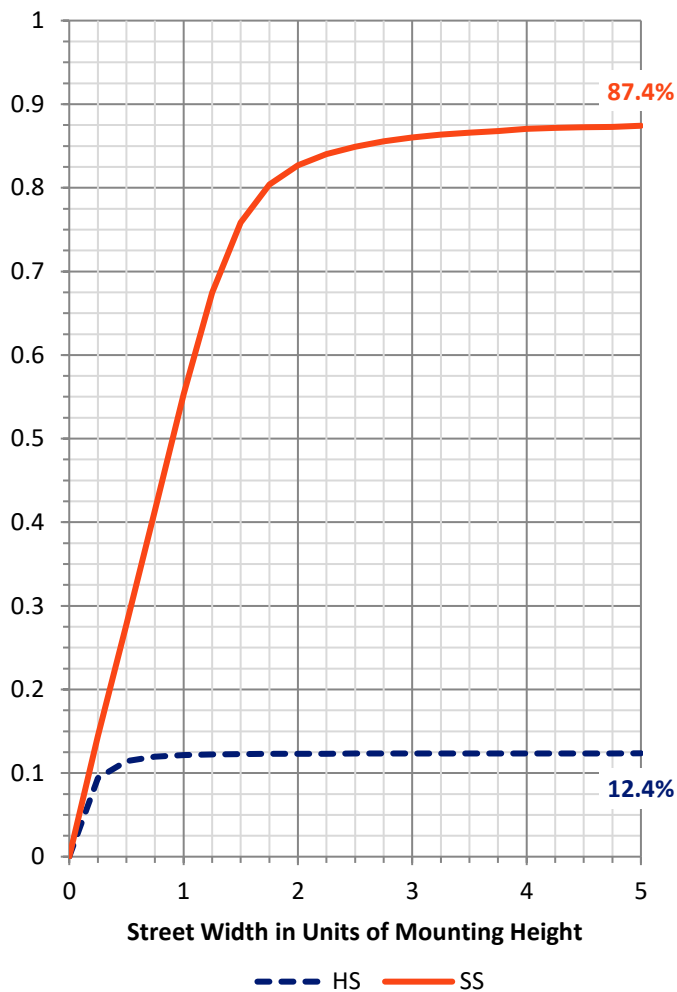
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2390.8	0.0	2390.8
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	16755.8	0.0	16755.8
	% Fixture	87.5	0.0	87.5
Total	Lumens	19146.7	0.0	19146.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	2.0
10°-20°	867.0	4.5
20°-30°	1238.9	6.5
30°-40°	1802.4	9.4
40°-50°	2822.9	14.7
50°-60°	4403.8	23.0
60°-70°	4837.3	25.3
70°-80°	2574.4	13.4
80°-90°	214.3	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°	19146.7	100.0
0°-180°	19146.7	100.0

Coefficient of Utilization



REPORT NUMBER: P637701

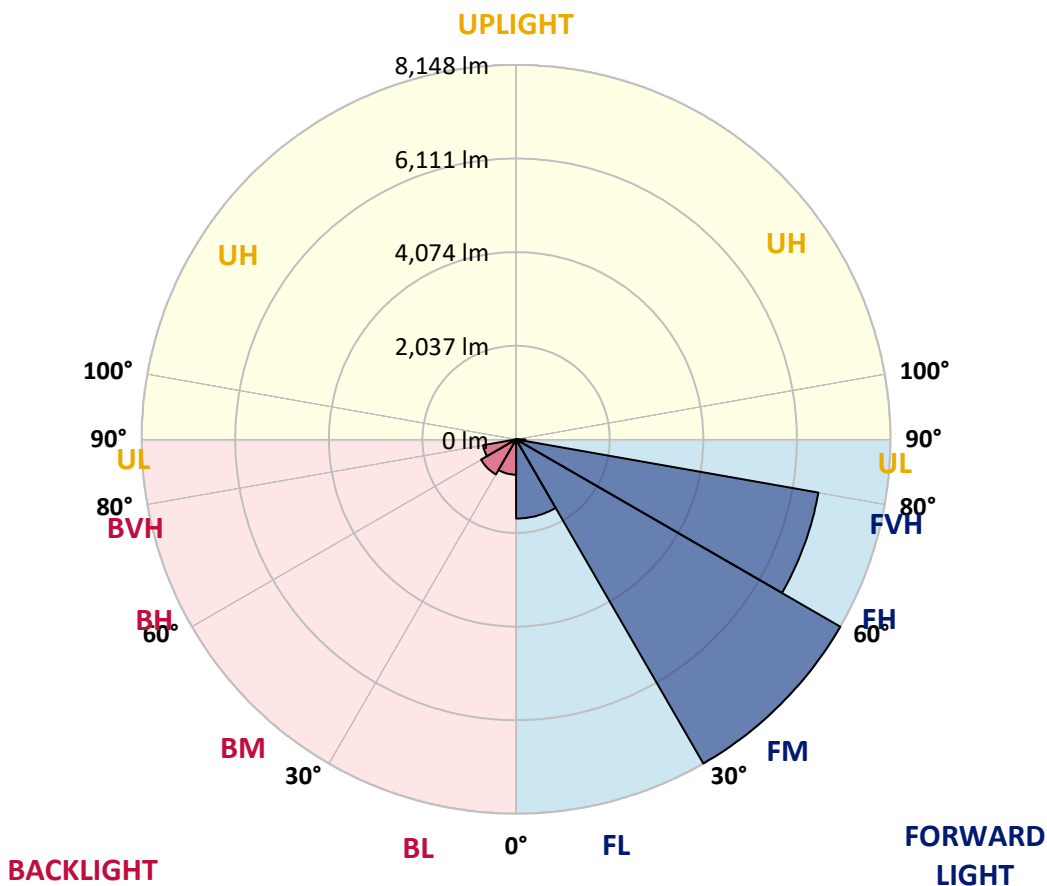
CATALOG NUMBER: GWS-SA4D-735-U-SL2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.1	9.0			
FM (30°-60°)	8148.4	42.6			
FH (60°-80°)	6681.5	34.9			G3/7500
FVH (80°-90°)	202.9	1.1			G2/225
BL (0°-30°)	768.5	4.0	B2/1000		
BM (30°-60°)	880.7	4.6	B1/1000		
BH (60°-80°)	730.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.5	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





REPORT NUMBER: P637701

CATALOG NUMBER: GWS-SA4D-735-U-SL2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7
2.5°	4482.7	4496.5	4477.5	4524.2	4532.9	4584.8	4614.2	4635.0	4633.3	4659.3	4659.3
5°	4219.5	4233.3	4222.9	4273.2	4313.0	4394.4	4461.9	4539.8	4543.3	4622.9	4652.3
7.5°	3996.1	3997.9	3997.9	4060.2	4112.1	4212.6	4313.0	4432.4	4446.3	4569.2	4647.1
10°	3812.6	3817.8	3819.5	3890.5	3947.6	4068.8	4197.0	4340.7	4356.3	4522.5	4643.7
12.5°	3686.2	3687.9	3694.9	3769.3	3831.6	3958.0	4087.9	4252.4	4273.2	4468.8	4628.1
15°	3625.6	3622.1	3625.6	3687.9	3750.3	3871.5	4004.8	4181.4	4203.9	4423.8	4629.8
17.5°	3622.1	3616.9	3613.5	3660.2	3700.1	3807.4	3942.5	4134.6	4158.9	4403.0	4648.9
20°	3672.3	3668.9	3651.6	3672.3	3681.0	3769.3	3902.6	4098.3	4122.5	4399.5	4690.4
22.5°	3803.9	3795.3	3769.3	3750.3	3703.5	3755.5	3874.9	4072.3	4100.0	4408.2	4744.1
25°	3999.6	3996.1	3963.2	3916.5	3797.0	3776.2	3876.7	4072.3	4098.3	4418.6	4801.2
27.5°	4293.9	4273.2	4231.6	4150.2	3978.8	3857.6	3911.3	4082.7	4108.7	4432.4	4848.0
30°	4593.5	4591.7	4577.9	4494.8	4240.3	4013.4	3984.0	4110.4	4134.6	4444.6	4891.3
32.5°	4903.4	4908.6	4943.2	4879.2	4600.4	4245.5	4115.6	4167.5	4184.9	4468.8	4929.4
35°	5197.7	5208.1	5299.9	5322.4	5038.4	4596.9	4330.3	4281.8	4283.5	4522.5	4979.6
37.5°	5480.0	5514.6	5661.8	5770.8	5583.8	5022.9	4640.2	4475.7	4461.9	4629.8	5055.8
40°	5800.3	5866.1	6051.3	6236.6	6177.7	5585.6	5062.7	4773.5	4744.1	4827.2	5192.5
42.5°	6155.2	6226.2	6472.1	6731.8	6759.5	6266.0	5590.8	5208.1	5157.9	5159.6	5448.8
45°	6536.1	6631.4	6917.0	7291.0	7459.0	7024.4	6241.8	5795.1	5744.9	5670.4	5860.9
47.5°	7036.5	7119.6	7394.9	7826.0	8148.1	7838.2	7095.4	6550.0	6458.2	6349.1	6501.5
50°	7467.6	7540.3	7777.6	8317.8	8987.8	8887.4	8063.2	7493.6	7405.3	7220.0	7346.4
52.5°	7562.9	7620.0	7838.2	8445.9	9630.2	10211.9	9249.3	8634.6	8572.3	8229.5	8277.9
55°	7135.2	7221.8	7417.4	8092.7	9798.1	11507.0	10788.5	9921.1	9791.2	9244.1	9330.6
57.5°	6054.8	6208.9	6392.4	7270.2	9342.8	12196.1	12938.9	11283.7	11166.0	10220.6	10222.3
60°	4437.6	4562.3	4685.2	5488.6	8262.4	12149.4	14890.2	12814.3	12599.6	11018.8	10989.3
62.5°	3227.4	3291.4	3289.7	3575.4	5673.9	11349.5	15915.2	15120.5	14620.1	11872.4	11704.4
65°	2538.3	2536.5	2611.0	2704.5	3168.5	8761.0	16041.6	18488.1	17947.9	13016.8	12667.1
67.5°	1975.6	2013.6	2088.1	2363.4	2380.7	4584.8	14930.1	20571.0	20560.7	14763.8	13794.3
70°	1523.7	1575.6	1681.2	2082.9	2198.9	2566.0	11171.1	19911.4	20079.3	15544.7	12996.1
72.5°	978.3	974.8	1130.6	1682.9	2112.3	2138.3	6177.7	15816.6	16007.0	14079.9	10508.0
75°	547.1	550.6	638.9	1030.2	1968.6	2011.9	3059.4	11278.5	11429.1	10977.2	8073.6
77.5°	214.7	221.6	299.5	541.9	1298.6	1797.2	1818.0	7691.0	7713.5	6802.8	4951.9
80°	86.6	91.8	152.4	335.9	791.3	1210.3	1298.6	4531.1	4439.4	2633.5	1440.5
82.5°	26.0	27.7	60.6	190.5	413.8	860.5	876.1	1738.3	1641.4	566.2	367.1
85°	1.7	1.7	13.9	58.9	147.2	216.4	583.5	566.2	502.1	142.0	162.8
87.5°	0.0	0.0	1.7	1.7	3.5	6.9	62.3	103.9	105.6	26.0	72.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637701
 CATALOG NUMBER: GWS-SA4D-735-U-SL2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7
2.5°	4659.3	4596.9	4591.7	4543.3	4494.8	4434.2	4363.2	4311.2	4274.9	4210.8	4198.7
5°	4652.3	4569.2	4491.3	4352.8	4198.7	4032.5	3887.0	3752.0	3667.2	3610.0	3585.8
7.5°	4638.5	4532.9	4352.8	4091.4	3833.4	3542.5	3315.7	3107.9	2965.9	2882.8	2846.5
10°	4628.1	4486.1	4193.5	3797.0	3397.1	2995.4	2650.8	2342.6	2171.2	2036.2	2013.6
12.5°	4607.3	4418.6	3989.2	3452.5	2936.5	2403.2	1963.4	1586.0	1324.5	1206.8	1165.2
15°	4586.5	4347.6	3784.9	3088.9	2434.4	1776.4	1243.2	879.6	699.5	644.1	640.6
17.5°	4583.1	4283.5	3563.3	2744.3	1908.0	1163.5	708.2	569.6	531.5	517.7	517.7
20°	4593.5	4229.9	3345.1	2347.8	1390.3	708.2	528.1	493.5	470.9	458.8	458.8
22.5°	4603.9	4174.5	3135.6	1947.9	922.8	517.7	465.8	436.3	410.3	396.5	389.6
25°	4610.8	4113.9	2903.6	1546.2	602.5	450.2	408.6	370.5	339.4	322.0	322.0
27.5°	4609.0	4041.1	2669.9	1153.1	467.5	400.0	349.7	309.9	278.8	259.7	261.4
30°	4595.2	3961.5	2427.5	805.1	408.6	349.7	299.5	258.0	226.8	211.2	209.5
32.5°	4584.8	3876.7	2147.0	566.2	367.1	306.5	254.5	214.7	188.7	176.6	174.9
35°	4572.7	3793.5	1880.3	431.1	330.7	264.9	214.7	181.8	161.0	150.6	150.6
37.5°	4576.2	3707.0	1591.2	370.5	294.3	230.3	183.5	155.8	138.5	128.1	126.4
40°	4629.8	3655.0	1307.2	335.9	261.4	199.1	159.3	135.1	117.7	107.3	105.6
42.5°	4763.1	3656.8	1035.4	309.9	232.0	169.7	138.5	116.0	100.4	88.3	86.6
45°	5029.8	3729.5	794.7	282.2	200.8	147.2	119.5	98.7	83.1	72.7	71.0
47.5°	5466.1	3945.9	602.5	258.0	174.9	128.1	102.2	83.1	69.3	60.6	58.9
50°	6160.4	4337.2	474.4	228.5	147.2	110.8	86.6	69.3	57.1	48.5	46.7
52.5°	6995.0	4924.2	406.9	202.6	126.4	97.0	74.5	57.1	46.7	39.8	38.1
55°	7954.2	5625.4	375.7	176.6	107.3	83.1	60.6	46.7	38.1	32.9	29.4
57.5°	8833.7	6257.4	374.0	150.6	91.8	71.0	50.2	39.8	32.9	26.0	24.2
60°	9690.8	6785.4	351.5	124.7	79.6	58.9	43.3	32.9	27.7	22.5	20.8
62.5°	10468.2	7214.8	294.3	100.4	67.5	48.5	36.4	29.4	24.2	19.0	19.0
65°	11444.7	7762.0	225.1	81.4	55.4	39.8	31.2	26.0	22.5	17.3	17.3
67.5°	12454.1	8051.1	161.0	67.5	45.0	34.6	27.7	24.2	19.0	15.6	15.6
70°	11280.2	6802.8	116.0	55.4	38.1	29.4	24.2	22.5	19.0	15.6	13.9
72.5°	8809.5	4905.1	86.6	43.3	32.9	27.7	22.5	20.8	17.3	13.9	13.9
75°	6532.7	2860.3	65.8	34.6	26.0	22.5	22.5	20.8	17.3	13.9	12.1
77.5°	3551.1	997.3	50.2	27.7	20.8	17.3	19.0	19.0	15.6	12.1	10.4
80°	940.2	273.6	34.6	20.8	17.3	13.9	13.9	17.3	13.9	10.4	10.4
82.5°	273.6	79.6	24.2	17.3	13.9	12.1	12.1	12.1	10.4	8.7	6.9
85°	133.3	29.4	17.3	13.9	12.1	10.4	8.7	8.7	6.9	5.2	5.2
87.5°	58.9	12.1	13.9	12.1	12.1	8.7	6.9	5.2	5.2	3.5	1.7
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)