

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: P637309

Luminaire Tested: GWS-SA4C-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637309
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-SA4C-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16651.5 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

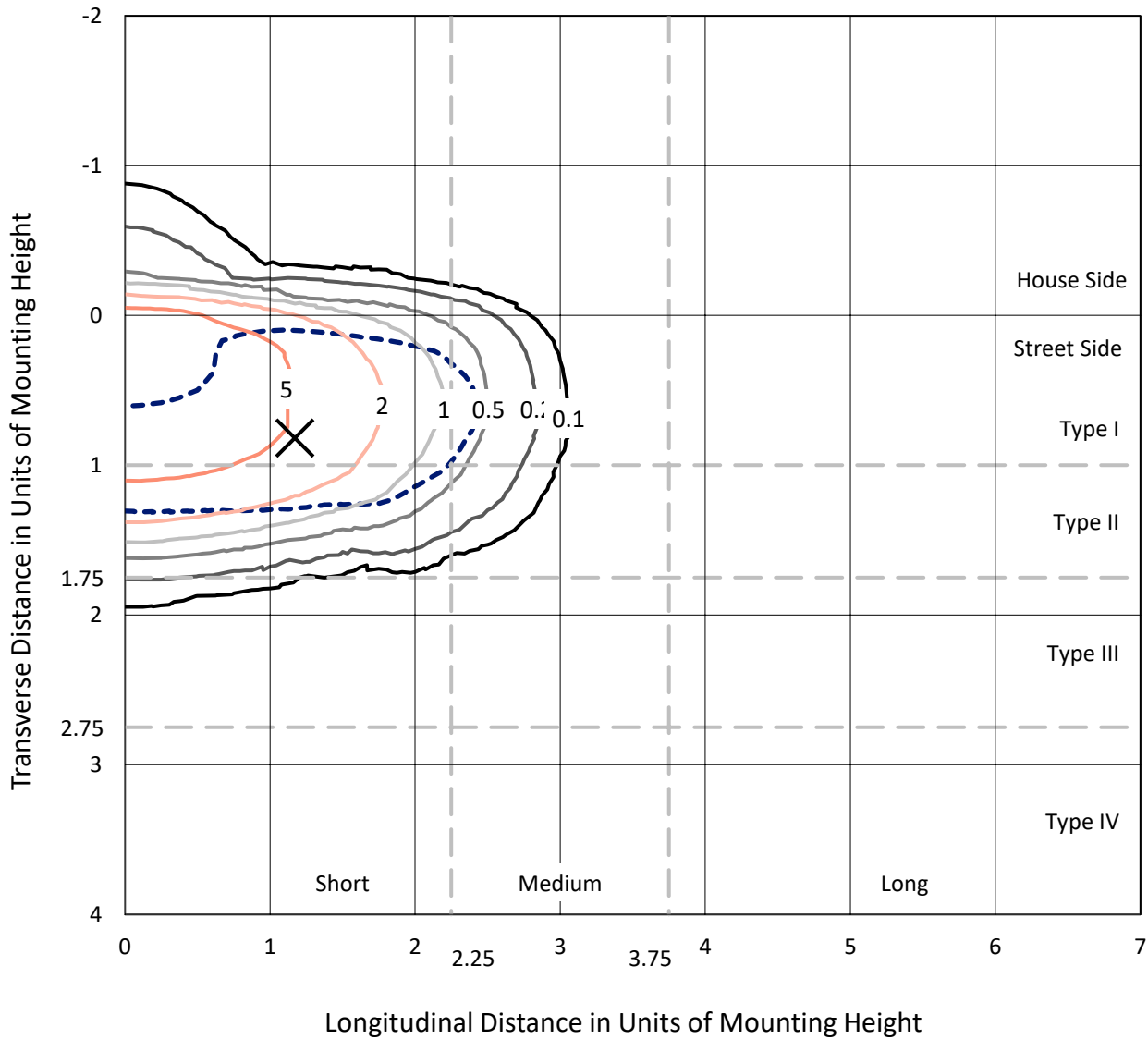
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637309
 CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

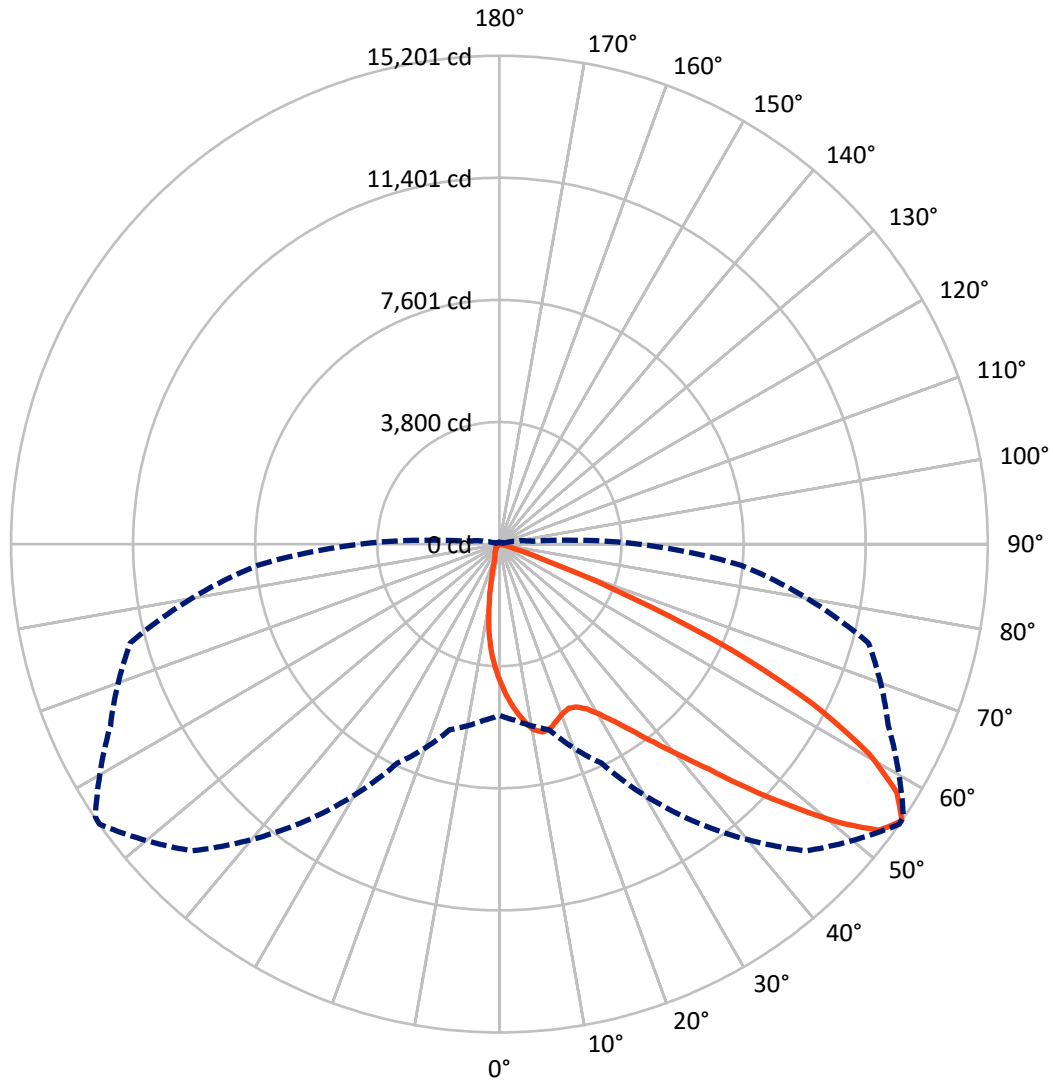
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

REPORT NUMBER: P637309
CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637309
 CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-HSS

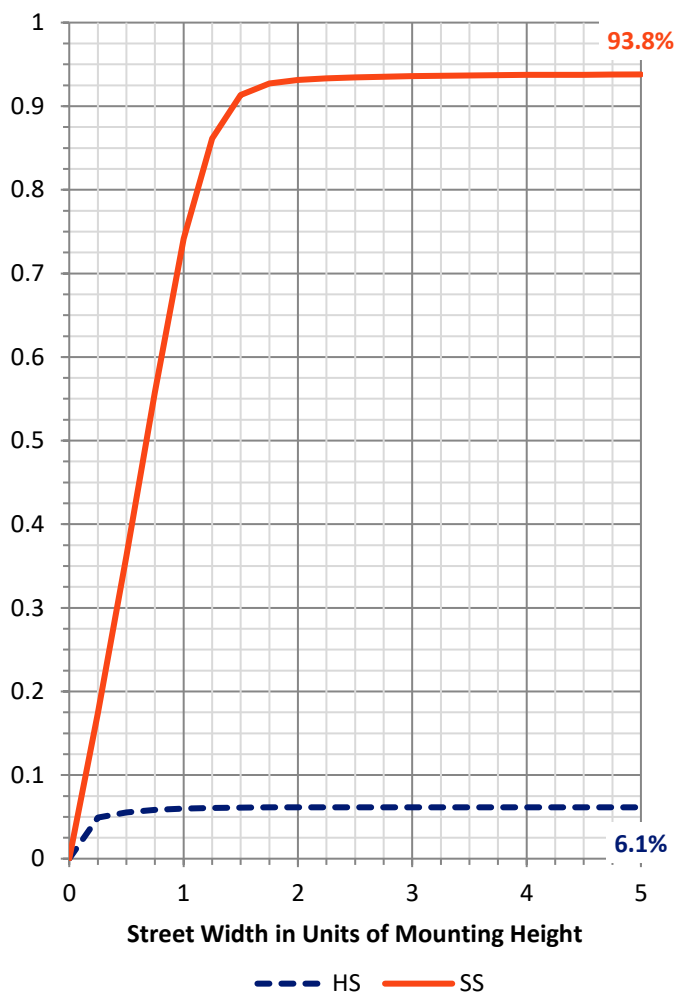
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.5	0.0	1027.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15624.0	0.0	15624.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	16651.5	0.0	16651.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	2.3
10°-20°	916.6	5.5
20°-30°	1526.4	9.2
30°-40°	2601.1	15.6
40°-50°	4245.9	25.5
50°-60°	4445.3	26.7
60°-70°	2242.1	13.5
70°-80°	283.2	1.7
80°-90°	10.8	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°	16651.5	100.0
0°-180°	16651.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637309

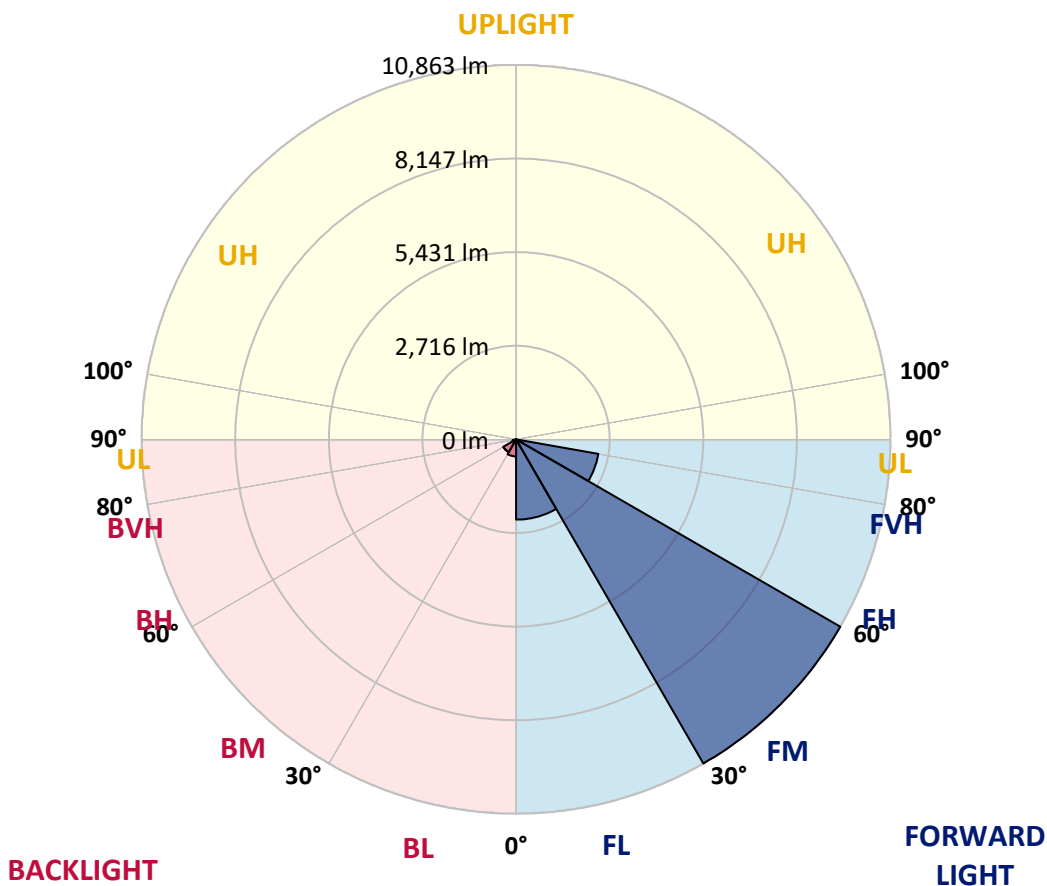
CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2329.3	14.0			
FM (30°-60°)	10862.7	65.2			
FH (60°-80°)	2422.2	14.5			G2/5000
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	493.8	3.0	B1/500		
BM (30°-60°)	429.6	2.6	B1/1000		
BH (60°-80°)	103.1	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2

Type II Short





REPORT NUMBER: P637309
 CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8
2.5°	5014.9	4990.7	5027.7	4985.0	4912.4	4851.2	4771.5	4743.1	4614.9	4493.9	4377.2
5°	5624.2	5631.3	5619.9	5560.1	5457.6	5343.8	5182.9	5147.3	4923.8	4693.2	4444.1
7.5°	5775.1	5770.8	5795.0	5817.8	5800.7	5743.8	5568.7	5533.1	5255.5	4909.6	4546.6
10°	5309.6	5312.4	5362.3	5516.0	5706.8	5904.6	5877.6	5857.6	5585.8	5154.4	4660.5
12.5°	4651.9	4677.6	4730.2	4949.5	5272.6	5722.4	6001.4	6021.3	5889.0	5423.5	4794.3
15°	4367.3	4372.9	4415.7	4548.0	4788.6	5343.8	5948.7	6004.3	6142.3	5693.9	4939.5
17.5°	4360.1	4367.3	4385.8	4444.1	4600.7	5046.3	5779.3	5876.1	6333.1	5984.3	5113.2
20°	4627.8	4623.5	4610.7	4579.4	4647.7	4948.0	5622.8	5729.5	6437.0	6267.6	5288.2
22.5°	5113.2	5107.5	5050.5	4921.0	4865.5	5037.7	5545.9	5642.7	6499.6	6519.6	5432.0
25°	5672.6	5712.4	5605.7	5409.2	5272.6	5266.9	5614.2	5682.6	6553.7	6743.0	5530.2
27.5°	6286.1	6298.9	6207.8	5987.2	5789.3	5634.2	5812.1	5863.3	6613.5	6942.3	5585.8
30°	6959.4	6955.1	6851.2	6595.0	6354.4	6131.0	6145.2	6165.1	6753.0	7170.1	5647.0
32.5°	7800.7	7819.2	7634.2	7285.4	6996.4	6687.5	6580.8	6583.6	7005.0	7463.3	5739.5
35°	8943.8	8898.2	8653.4	8156.6	7664.0	7330.9	7148.7	7133.1	7393.6	7857.6	5900.3
37.5°	10032.7	10037.0	9780.8	9234.1	8612.1	8086.8	7829.2	7786.5	7940.2	8404.3	6168.0
40°	10788.6	10802.8	10696.1	10409.9	9750.9	9007.8	8629.2	8585.0	8649.1	9096.1	6518.1
42.5°	11188.6	11228.5	11258.3	11325.2	10825.6	10158.0	9575.8	9571.5	9504.6	9884.7	6923.8
45°	11204.3	11264.0	11446.2	11903.2	11960.1	11470.4	10837.0	10741.6	10484.0	10728.8	7286.8
47.5°	10585.0	10723.1	11110.3	12015.6	12613.5	12775.8	12148.0	12089.7	11366.5	11396.4	7558.7
50°	9141.6	9285.4	9998.6	11439.1	12778.6	13812.1	13587.2	13466.2	12103.9	11837.7	7689.7
52.5°	7661.2	7792.2	8276.1	10066.9	12093.9	14138.1	14800.0	14656.2	12765.8	11991.4	7635.6
55°	5331.0	5506.0	5978.6	7524.5	10516.7	13503.2	15201.4	15171.5	13356.6	11894.6	7551.6
57.5°	2613.5	2787.2	3258.4	4639.1	7790.7	11789.3	14587.9	14745.9	13709.6	11790.7	7483.3
60°	1091.8	1163.0	1325.3	2035.6	4358.7	8909.6	13202.8	13422.0	13493.2	11649.8	7476.1
62.5°	633.5	644.8	661.9	844.1	1695.4	5107.5	10952.3	11264.0	12355.9	11463.3	7363.7
65°	478.3	482.6	475.4	518.1	700.4	1937.4	7913.2	8337.4	10313.2	10734.5	6919.6
67.5°	392.9	392.9	374.4	382.9	439.9	726.0	4368.7	4960.8	7631.3	8822.8	5713.9
70°	313.2	320.3	311.7	300.4	314.6	401.4	1554.4	1927.4	4444.1	5210.0	3332.4
72.5°	237.7	237.7	252.0	243.4	233.5	252.0	542.3	609.3	1783.6	2172.2	1202.8
75°	183.6	189.3	199.3	190.7	176.5	149.5	260.5	276.2	538.1	505.3	269.0
77.5°	94.0	95.4	126.7	139.5	131.0	91.1	113.9	125.3	175.1	156.6	99.6
80°	56.9	59.8	71.2	109.6	86.8	48.4	47.0	49.8	82.6	71.2	41.3
82.5°	24.2	25.6	39.9	39.9	35.6	18.5	18.5	18.5	39.9	37.0	17.1
85°	0.0	0.0	7.1	5.7	5.7	7.1	7.1	7.1	10.0	14.2	8.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	4.3
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: P637309
 CATALOG NUMBER: GWS-SA4C-750-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8	4301.8
2.5°	4301.8	4210.7	4088.2	3977.2	3827.8	3743.8	3627.0	3531.7	3450.5	3424.9	3413.5
5°	4303.2	4146.6	3884.7	3622.8	3301.1	3047.7	2787.2	2580.8	2411.4	2357.3	2343.1
7.5°	4331.7	4101.1	3676.9	3201.4	2663.3	2219.2	1822.1	1466.2	1301.1	1245.5	1234.2
10°	4370.1	4062.6	3436.3	2696.1	1923.1	1352.3	958.0	730.2	622.1	562.3	570.8
12.5°	4419.9	4031.3	3170.1	2149.5	1272.6	743.1	526.7	441.3	418.5	407.1	401.4
15°	4486.8	3994.3	2839.9	1607.1	780.1	478.3	405.7	382.9	374.4	368.7	367.3
17.5°	4555.2	3951.6	2503.9	1130.2	518.1	397.2	364.4	353.0	347.3	343.1	341.6
20°	4627.8	3879.0	2109.6	778.6	408.5	357.3	335.9	323.1	316.0	308.9	307.5
22.5°	4659.1	3762.3	1732.4	545.2	363.0	328.8	301.8	286.1	277.6	271.9	271.9
25°	4629.2	3572.9	1342.3	414.2	330.2	297.5	270.5	253.4	246.3	240.6	240.6
27.5°	4549.5	3329.5	979.4	343.1	294.7	264.8	239.1	223.5	217.8	214.9	214.9
30°	4461.2	3022.1	690.4	294.7	254.8	230.6	209.3	199.3	197.9	195.0	195.0
32.5°	4385.8	2734.5	475.4	259.1	224.9	200.7	186.5	182.2	183.6	180.8	182.2
35°	4344.5	2452.7	353.0	230.6	200.7	177.9	170.8	170.8	170.8	169.4	169.4
37.5°	4361.6	2175.1	287.5	210.7	179.4	162.3	155.2	158.0	160.9	160.9	160.9
40°	4447.0	1928.8	254.8	192.2	160.9	148.0	142.3	146.6	150.9	153.7	153.7
42.5°	4555.2	1729.5	230.6	176.5	148.0	133.8	131.0	135.2	139.5	142.3	142.3
45°	4623.5	1528.8	206.4	156.6	135.2	118.1	118.1	123.8	122.4	123.8	123.8
47.5°	4654.8	1369.4	182.2	135.2	115.3	102.5	103.9	106.8	103.9	106.8	106.8
50°	4577.9	1208.5	160.9	112.5	95.4	89.7	92.5	91.1	91.1	96.8	96.8
52.5°	4437.0	1089.0	142.3	95.4	81.1	79.7	82.6	76.9	78.3	78.3	76.9
55°	4333.1	1020.6	126.7	82.6	69.8	71.2	69.8	59.8	54.1	48.4	47.0
57.5°	4281.8	993.6	115.3	74.0	62.6	62.6	56.9	41.3	31.3	24.2	21.4
60°	4270.5	960.9	103.9	64.1	55.5	52.7	41.3	24.2	15.7	11.4	10.0
62.5°	4162.3	881.1	94.0	51.2	48.4	42.7	25.6	14.2	8.5	5.7	4.3
65°	3807.8	724.6	84.0	39.9	37.0	31.3	15.7	8.5	4.3	1.4	0.0
67.5°	3029.2	513.9	74.0	29.9	25.6	19.9	10.0	5.7	1.4	0.0	0.0
70°	1746.6	277.6	61.2	21.4	17.1	12.8	7.1	2.8	0.0	0.0	0.0
72.5°	583.6	129.5	47.0	14.2	12.8	10.0	4.3	1.4	0.0	0.0	0.0
75°	128.1	76.9	31.3	10.0	8.5	7.1	2.8	0.0	0.0	0.0	0.0
77.5°	48.4	54.1	15.7	7.1	5.7	4.3	1.4	0.0	0.0	0.0	0.0
80°	18.5	35.6	7.1	4.3	4.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	14.2	4.3	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.7	7.1	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	1.4	1.4	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)