

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: P638464

Luminaire Tested: GWS-SA4E-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638464
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-SA4E-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20386.6 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

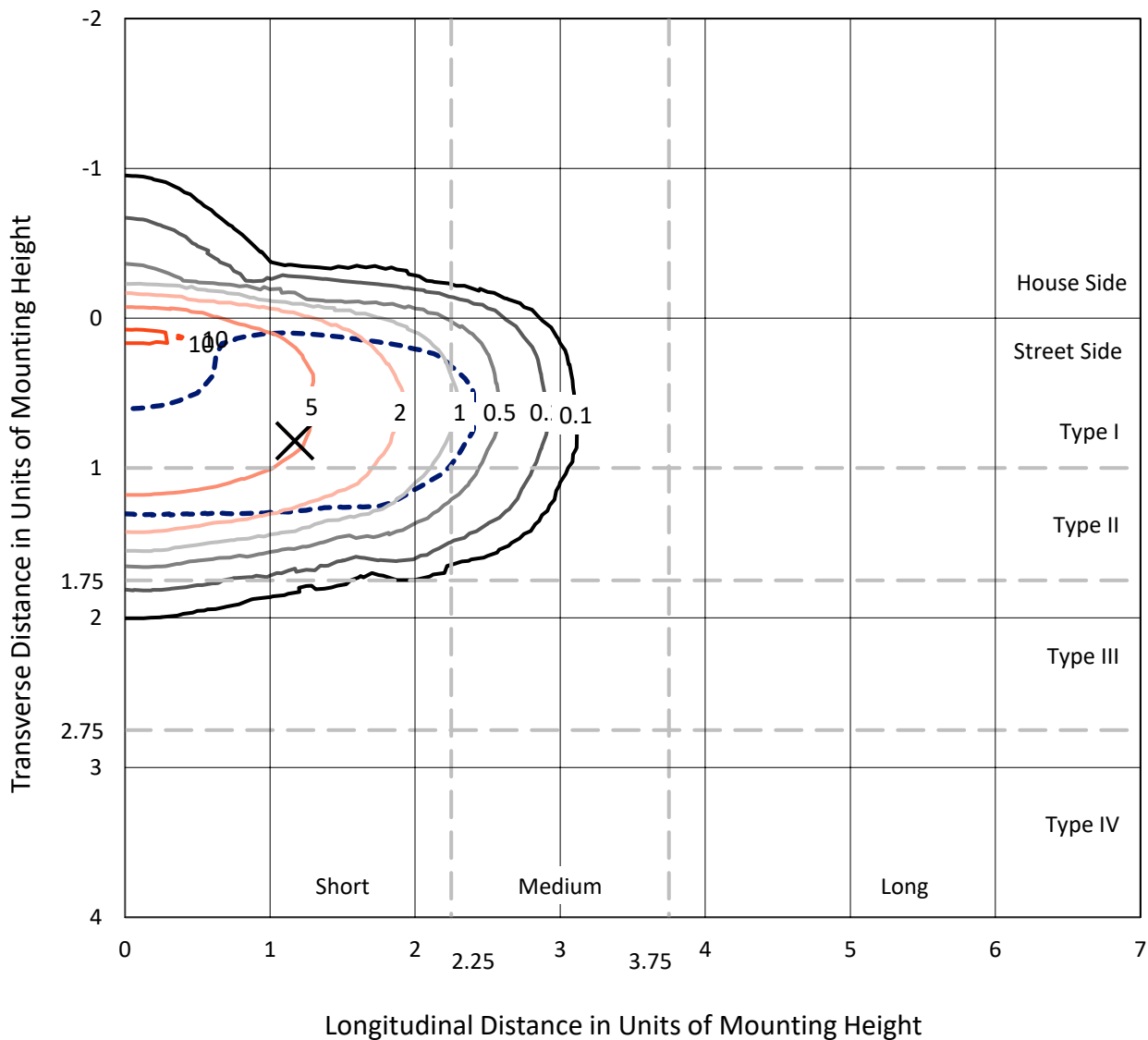
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638464
 CATALOG NUMBER: GWS-SA4E-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

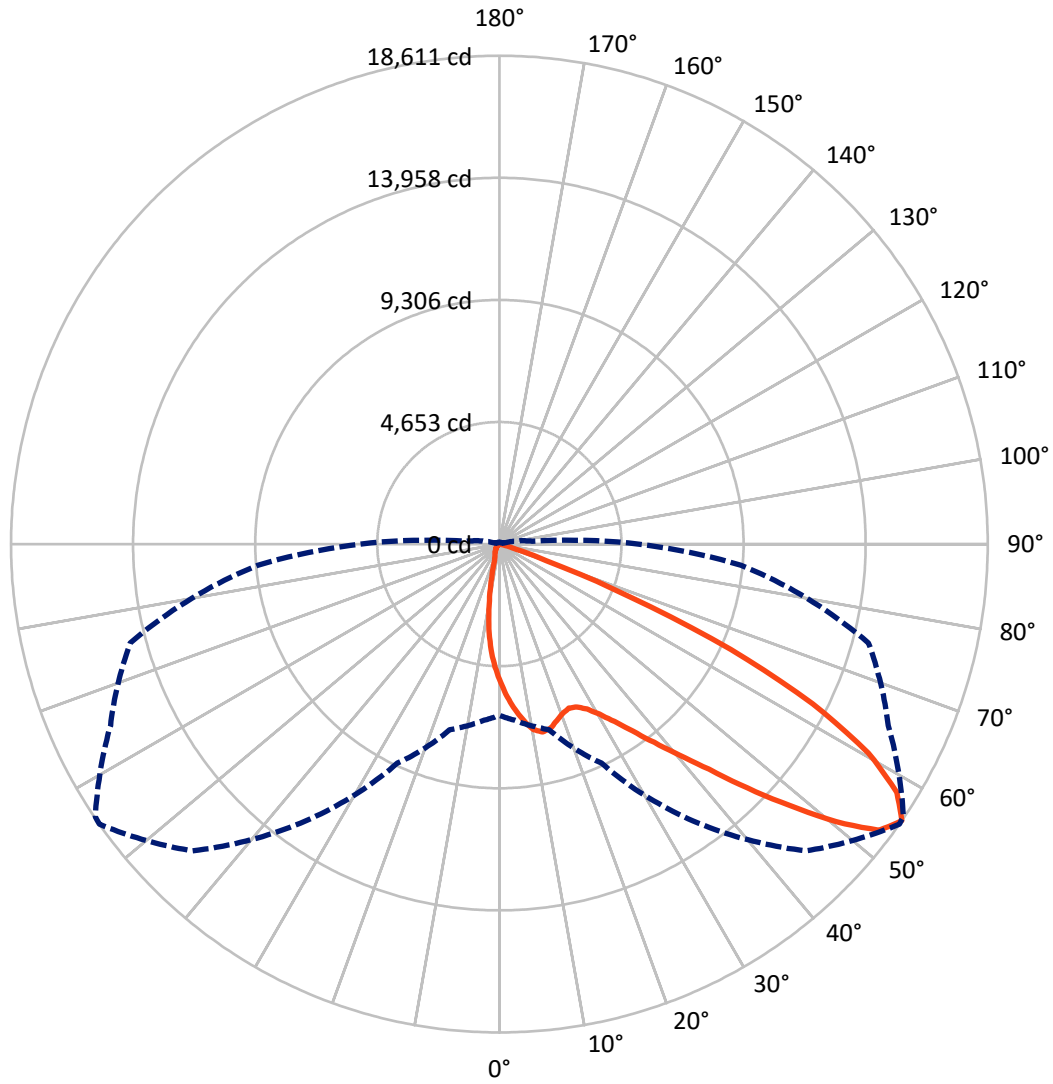
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P638464
CATALOG NUMBER: GWS-SA4E-830-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638464
 CATALOG NUMBER: GWS-SA4E-830-U-AFL-W-HSS

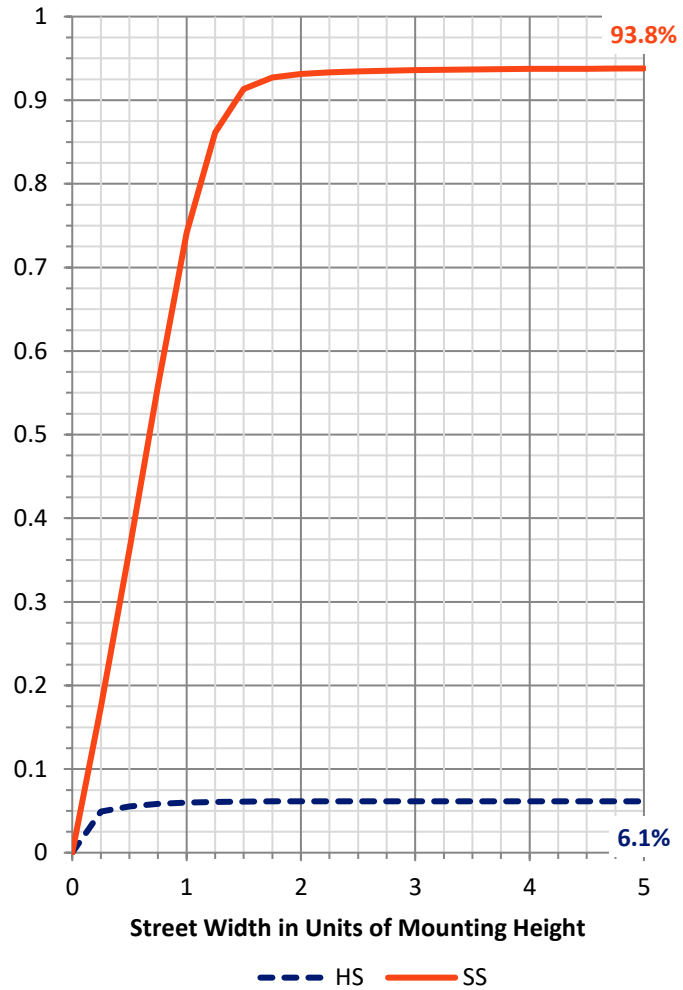
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1257.9	0.0	1257.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19128.7	0.0	19128.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	20386.6	0.0	20386.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.4	2.3
10°-20°	1122.2	5.5
20°-30°	1868.8	9.2
30°-40°	3184.6	15.6
40°-50°	5198.3	25.5
50°-60°	5442.4	26.7
60°-70°	2745.0	13.5
70°-80°	346.7	1.7
80°-90°	13.2	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°	20386.6	100.0
0°-180°	20386.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638464

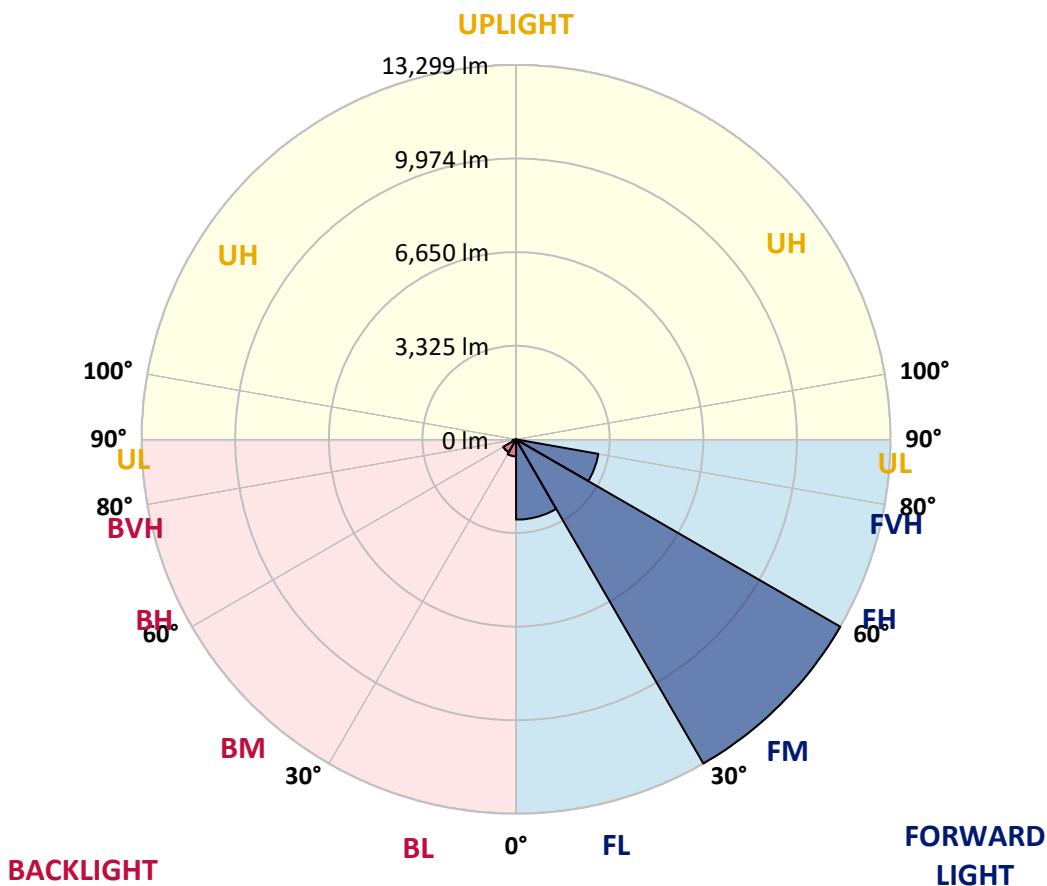
CATALOG NUMBER: GWS-SA4E-830-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2851.8	14.0			
FM (30°-60°)	13299.3	65.2			
FH (60°-80°)	2965.6	14.5			G2/5000
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	604.6	3.0	B2/1000		
BM (30°-60°)	525.9	2.6	B1/1000		
BH (60°-80°)	126.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2

Type II Short





REPORT NUMBER: P638464

CATALOG NUMBER: GWS-SA4E-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7
2.5°	6139.8	6110.2	6155.5	6103.2	6014.4	5939.4	5841.8	5807.0	5650.1	5502.0	5359.1
5°	6885.8	6894.5	6880.5	6807.3	6681.8	6542.4	6345.5	6301.9	6028.3	5746.0	5441.0
7.5°	7070.5	7065.3	7094.9	7122.8	7101.9	7032.1	6817.8	6774.2	6434.4	6010.9	5566.5
10°	6500.6	6504.1	6565.1	6753.3	6986.8	7229.1	7196.0	7171.6	6838.7	6310.6	5705.9
12.5°	5695.4	5726.8	5791.3	6059.7	6455.3	7006.0	7347.6	7372.0	7209.9	6640.0	5869.7
15°	5346.9	5353.8	5406.1	5568.2	5862.7	6542.4	7283.1	7351.1	7520.1	6971.1	6047.5
17.5°	5338.2	5346.9	5369.5	5441.0	5632.7	6178.2	7075.7	7194.2	7753.7	7326.7	6260.1
20°	5665.8	5660.6	5644.9	5606.5	5690.2	6057.9	6884.0	7014.7	7880.9	7673.5	6474.5
22.5°	6260.1	6253.1	6183.4	6024.8	5956.8	6167.7	6789.9	6908.4	7957.6	7982.0	6650.5
25°	6945.0	6993.8	6863.1	6622.6	6455.3	6448.3	6873.6	6957.2	8023.8	8255.6	6770.7
27.5°	7696.1	7711.8	7600.3	7330.2	7087.9	6898.0	7115.8	7178.5	8097.0	8499.6	6838.7
30°	8520.5	8515.3	8388.0	8074.3	7779.8	7506.2	7523.6	7548.0	8267.8	8778.4	6913.6
32.5°	9550.5	9573.1	9346.6	8919.6	8565.8	8187.6	8056.9	8060.4	8576.3	9137.4	7026.9
35°	10949.9	10894.2	10594.4	9986.2	9383.2	8975.4	8752.3	8733.1	9052.0	9620.2	7223.9
37.5°	12283.2	12288.4	11974.7	11305.5	10543.9	9900.8	9585.3	9533.0	9721.3	10289.4	7551.5
40°	13208.6	13226.0	13095.3	12745.0	11938.1	11028.4	10564.8	10510.8	10589.2	11136.4	7980.2
42.5°	13698.3	13747.1	13783.7	13865.6	13253.9	12436.5	11723.7	11718.5	11636.6	12101.9	8476.9
45°	13717.5	13790.7	14013.8	14573.2	14642.9	14043.4	13267.8	13151.1	12835.6	13135.4	8921.3
47.5°	12959.4	13128.4	13602.5	14710.9	15442.8	15641.5	14872.9	14801.5	13916.2	13952.8	9254.2
50°	11192.2	11368.2	12241.3	14005.0	15645.0	16910.3	16634.9	16486.8	14818.9	14493.0	9414.5
52.5°	9379.7	9540.0	10132.6	12325.0	14806.7	17309.4	18119.8	17943.7	15629.3	14681.2	9348.3
55°	6526.7	6741.1	7319.7	9212.4	12875.7	16532.1	18611.2	18574.6	16352.6	14562.7	9245.5
57.5°	3199.8	3412.4	3989.2	5679.7	9538.3	14433.8	17860.1	18053.5	16784.8	14435.5	9161.8
60°	1336.7	1423.9	1622.5	2492.2	5336.4	10908.1	16164.4	16432.7	16519.9	14263.0	9153.1
62.5°	775.5	789.5	810.4	1033.5	2075.7	6253.1	13409.0	13790.7	15127.4	14034.7	9015.4
65°	585.6	590.8	582.1	634.4	857.5	2371.9	9688.2	10207.5	12626.5	13142.4	8471.7
67.5°	481.0	481.0	458.4	468.8	538.5	888.8	5348.6	6073.6	9343.1	10801.8	6995.5
70°	383.4	392.1	381.7	367.7	385.2	491.5	1903.1	2359.7	5441.0	6378.6	4079.9
72.5°	291.0	291.0	308.5	298.0	285.8	308.5	664.0	745.9	2183.7	2659.5	1472.7
75°	224.8	231.8	244.0	233.5	216.1	183.0	318.9	338.1	658.8	618.7	329.4
77.5°	115.0	116.8	155.1	170.8	160.3	111.5	139.4	153.4	214.4	191.7	122.0
80°	69.7	73.2	87.1	134.2	106.3	59.3	57.5	61.0	101.1	87.1	50.5
82.5°	29.6	31.4	48.8	48.8	43.6	22.7	22.7	22.7	48.8	45.3	20.9
85°	0.0	0.0	8.7	7.0	7.0	8.7	8.7	8.7	12.2	17.4	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2
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: P638464
 CATALOG NUMBER: GWS-SA4E-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7	5266.7
2.5°	5266.7	5155.2	5005.3	4869.3	4686.4	4583.5	4440.6	4323.9	4224.5	4193.1	4179.2
5°	5268.4	5076.7	4756.1	4435.4	4041.5	3731.3	3412.4	3159.7	2952.3	2886.1	2868.6
7.5°	5303.3	5021.0	4501.6	3919.5	3260.8	2717.0	2230.8	1795.1	1592.9	1524.9	1511.0
10°	5350.4	4973.9	4207.1	3300.8	2354.5	1655.6	1172.9	894.0	761.6	688.4	698.9
12.5°	5411.4	4935.6	3881.2	2631.6	1558.1	909.7	644.8	540.3	512.4	498.4	491.5
15°	5493.3	4890.3	3476.9	1967.6	955.0	585.6	496.7	468.8	458.4	451.4	449.6
17.5°	5576.9	4838.0	3065.6	1383.8	634.4	486.2	446.2	432.2	425.2	420.0	418.3
20°	5665.8	4749.1	2582.8	953.3	500.2	437.4	411.3	395.6	386.9	378.2	376.4
22.5°	5704.1	4606.2	2121.0	667.5	444.4	402.6	369.5	350.3	339.8	332.9	332.9
25°	5667.5	4374.4	1643.4	507.2	404.3	364.2	331.1	310.2	301.5	294.5	294.5
27.5°	5569.9	4076.4	1199.0	420.0	360.8	324.2	292.8	273.6	266.6	263.2	263.2
30°	5461.9	3699.9	845.3	360.8	312.0	282.3	256.2	244.0	242.2	238.8	238.8
32.5°	5369.5	3347.9	582.1	317.2	275.4	245.7	228.3	223.1	224.8	221.3	223.1
35°	5319.0	3002.8	432.2	282.3	245.7	217.8	209.1	209.1	209.1	207.4	207.4
37.5°	5339.9	2663.0	352.0	257.9	219.6	198.7	190.0	193.4	196.9	196.9	196.9
40°	5444.5	2361.5	312.0	235.3	196.9	181.2	174.3	179.5	184.7	188.2	188.2
42.5°	5576.9	2117.5	282.3	216.1	181.2	163.8	160.3	165.6	170.8	174.3	174.3
45°	5660.6	1871.8	252.7	191.7	165.6	144.7	144.7	151.6	149.9	151.6	151.6
47.5°	5698.9	1676.6	223.1	165.6	141.2	125.5	127.2	130.7	127.2	130.7	130.7
50°	5604.8	1479.6	196.9	137.7	116.8	109.8	113.3	111.5	111.5	118.5	118.5
52.5°	5432.3	1333.2	174.3	116.8	99.3	97.6	101.1	94.1	95.9	95.9	94.1
55°	5305.0	1249.6	155.1	101.1	85.4	87.1	85.4	73.2	66.2	59.3	57.5
57.5°	5242.3	1216.5	141.2	90.6	76.7	76.7	69.7	50.5	38.3	29.6	26.1
60°	5228.4	1176.4	127.2	78.4	68.0	64.5	50.5	29.6	19.2	13.9	12.2
62.5°	5095.9	1078.8	115.0	62.7	59.3	52.3	31.4	17.4	10.5	7.0	5.2
65°	4662.0	887.1	102.8	48.8	45.3	38.3	19.2	10.5	5.2	1.7	0.0
67.5°	3708.7	629.1	90.6	36.6	31.4	24.4	12.2	7.0	1.7	0.0	0.0
70°	2138.4	339.8	74.9	26.1	20.9	15.7	8.7	3.5	0.0	0.0	0.0
72.5°	714.5	158.6	57.5	17.4	15.7	12.2	5.2	1.7	0.0	0.0	0.0
75°	156.9	94.1	38.3	12.2	10.5	8.7	3.5	0.0	0.0	0.0	0.0
77.5°	59.3	66.2	19.2	8.7	7.0	5.2	1.7	0.0	0.0	0.0	0.0
80°	22.7	43.6	8.7	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	17.4	5.2	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	8.7	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	1.7	1.7	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)