

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: P643444

Luminaire Tested: GWS-SA6E-830-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28678.8 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

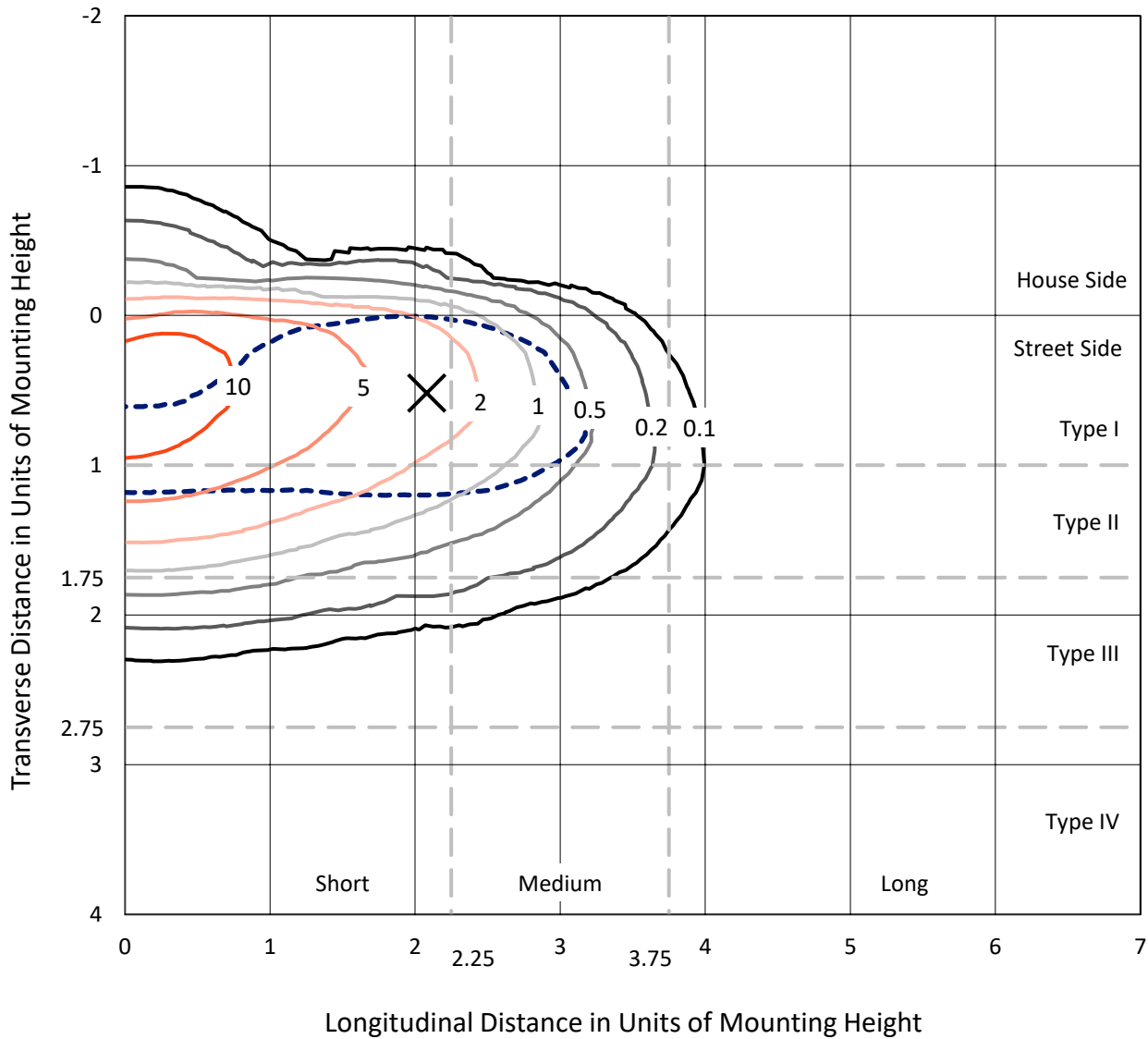
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

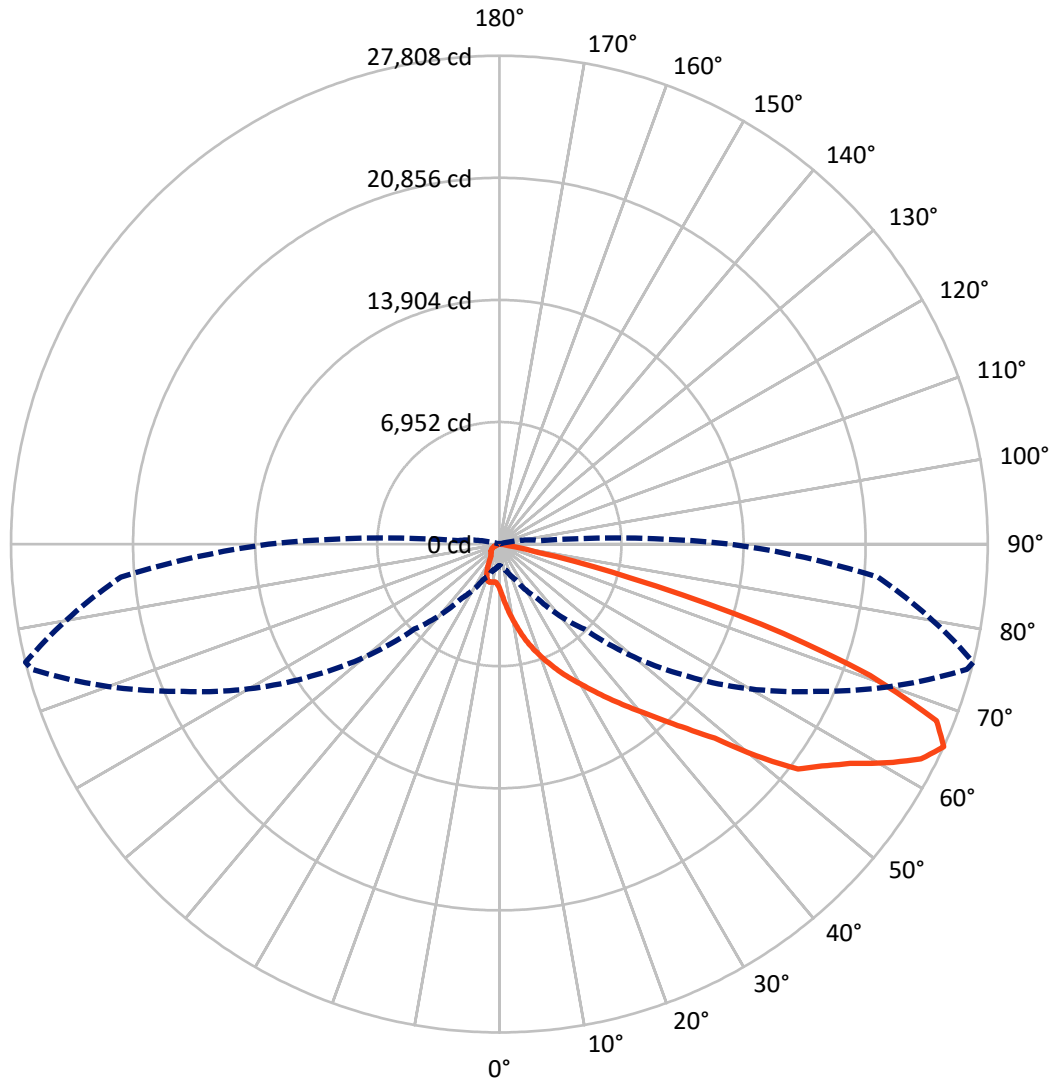
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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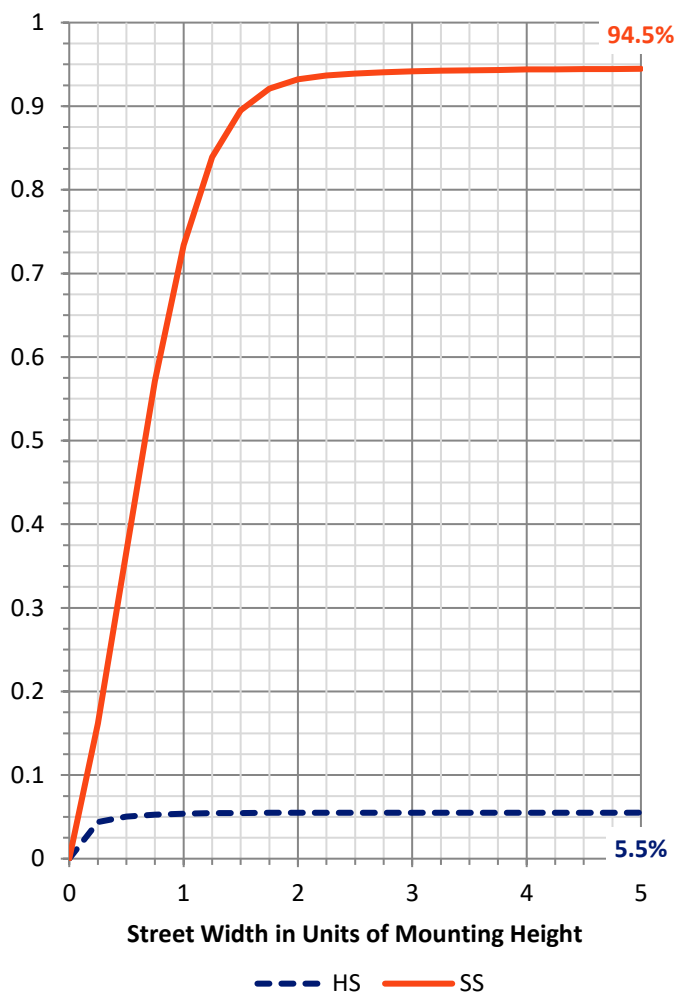
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1585.7	0.0	1585.7
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	27093.0	0.0	27093.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	28678.8	0.0	28678.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.1
10°-20°	1172.1	4.1
20°-30°	2391.3	8.3
30°-40°	4252.9	14.8
40°-50°	6286.9	21.9
50°-60°	7198.0	25.1
60°-70°	5491.7	19.1
70°-80°	1538.3	5.4
80°-90°	38.7	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°	28678.8	100.0
0°-180°	28678.8	100.0

Coefficient of Utilization



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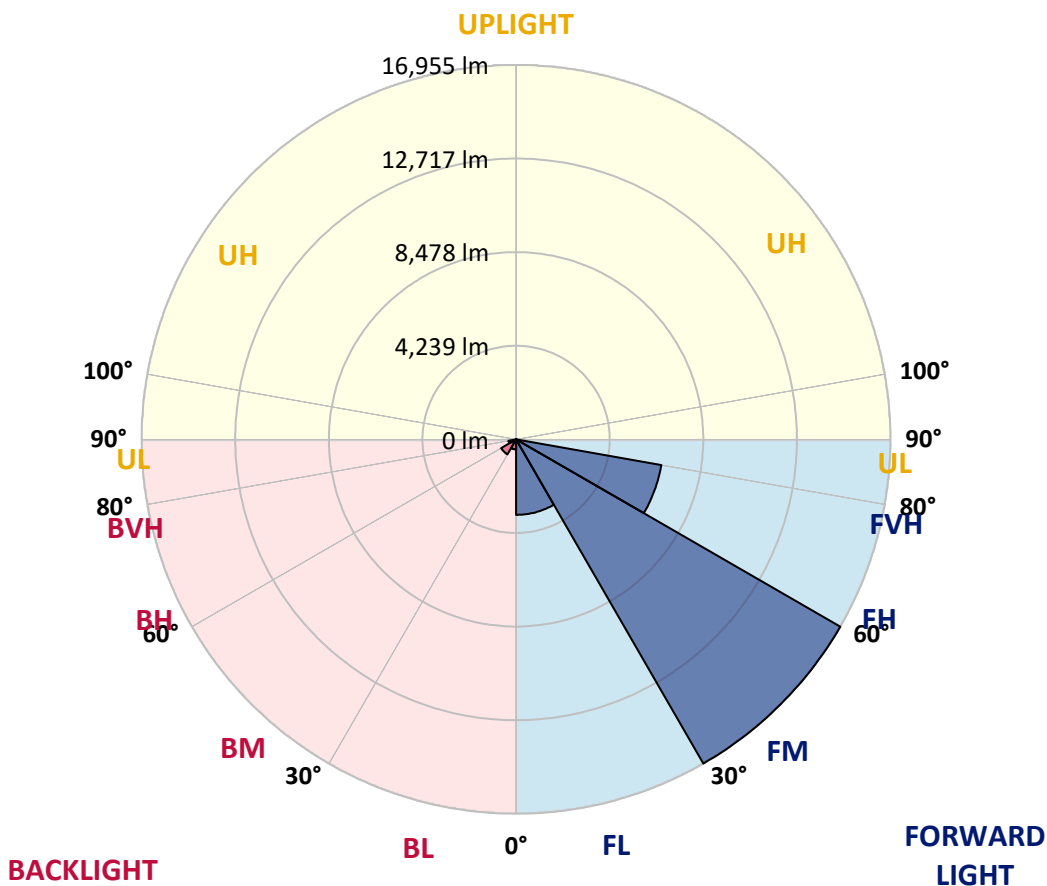
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3419.7	11.9			
FM (30°-60°)	16955.4	59.1			
FH (60°-80°)	6681.5	23.3			G3/7500
FVH (80°-90°)	36.5	0.1			G1/100
BL (0°-30°)	452.5	1.6	B1/500		
BM (30°-60°)	782.4	2.7	B1/1000		
BH (60°-80°)	348.6	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1
2.5°	3913.2	3971.8	3925.9	3849.5	3701.6	3558.8	3375.3	3122.9	2921.5	2896.0	2707.4
5°	5284.7	5279.6	5180.2	5080.8	4925.3	4680.5	4310.9	3841.8	3390.6	3352.4	2929.2
7.5°	6100.5	6108.2	6052.1	5975.6	5822.6	5570.3	5185.3	4619.4	3959.1	3882.6	3232.5
10°	6786.3	6783.7	6742.9	6707.3	6569.6	6401.3	5988.3	5366.3	4570.9	4451.1	3571.6
12.5°	7301.2	7319.1	7339.5	7375.2	7316.5	7150.8	6760.8	6082.7	5190.4	5057.8	3959.1
15°	7709.1	7714.2	7790.7	7928.4	7976.8	7890.1	7535.8	6776.1	5802.2	5687.5	4405.2
17.5°	7831.5	7841.7	7971.7	8224.1	8479.0	8527.5	8259.8	7474.6	6403.9	6281.5	4838.6
20°	8089.0	8111.9	8208.8	8430.6	8751.8	9011.8	8907.3	8180.8	7005.5	6844.9	5282.2
22.5°	8899.7	8912.4	8879.3	8907.3	9073.0	9373.8	9437.6	8864.0	7622.5	7451.7	5761.5
25°	10294.1	10299.2	10067.3	9848.0	9723.1	9779.2	9919.4	9493.7	8234.3	8066.0	6207.6
27.5°	11742.2	11760.0	11482.1	11109.9	10663.8	10408.9	10368.1	10069.8	8851.2	8665.1	6648.6
30°	13106.0	13106.0	12812.9	12359.1	11762.5	11265.4	10972.3	10651.0	9511.5	9307.6	7099.8
32.5°	14332.3	14322.1	13947.3	13455.3	12866.4	12320.8	11703.9	11257.8	10245.7	10018.8	7619.9
35°	15344.3	15318.8	14893.1	14421.5	13791.8	13386.5	12698.1	11910.4	11041.1	10814.2	8155.3
37.5°	16109.1	16081.1	15691.0	15191.4	14607.6	14345.0	13768.9	12693.0	11879.8	11673.3	8749.3
40°	16524.7	16468.6	16198.4	15826.2	15336.7	15107.3	14867.6	13664.3	12866.4	12608.9	9450.3
42.5°	16647.0	16580.8	16402.3	16229.0	15933.2	15752.2	16009.7	14760.5	13949.9	13728.1	10250.8
45°	16285.0	16246.8	16231.5	16356.4	16410.0	16460.9	17095.7	15974.0	15145.5	14977.2	11257.8
47.5°	15413.2	15403.0	15538.1	16058.1	16624.1	17162.0	18276.1	17470.5	16695.5	16514.5	12665.0
50°	13802.0	13906.5	14283.8	15196.5	16328.4	17559.7	19379.9	19545.6	19204.0	18938.9	14500.5
52.5°	11283.3	11484.7	12331.0	13717.9	15344.3	17447.5	19889.8	21207.8	21557.0	21281.7	15816.0
55°	8853.8	9042.4	9797.0	11556.1	13725.5	16593.5	19912.7	21781.4	22543.6	22288.7	16705.7
57.5°	6595.1	6768.4	7454.2	9136.8	11522.9	14913.5	19367.2	22100.0	23713.7	23550.6	18110.3
60°	4310.9	4481.7	5101.2	6572.1	8937.9	12466.2	18023.7	22033.7	25307.1	25291.8	19836.2
62.5°	2391.3	2526.4	2975.1	4122.2	6238.2	9654.3	15912.8	21368.4	26849.4	26946.3	21258.8
65°	1223.7	1310.3	1583.1	2266.3	3775.5	6844.9	13136.6	19843.9	27563.2	27808.0	21633.5
67.5°	800.5	828.5	894.8	1177.8	2021.6	4305.8	9886.3	17399.1	26558.8	26844.3	20376.7
70°	650.1	673.0	711.3	785.2	1042.7	2286.7	6493.1	13896.3	22191.8	22385.6	16226.4
72.5°	476.7	507.3	581.2	629.7	752.0	1254.3	3377.8	9121.5	15239.8	15581.4	10197.3
75°	351.8	369.7	430.8	497.1	614.4	792.8	1292.5	4795.3	7869.7	7670.9	4282.9
77.5°	211.6	224.3	275.3	318.7	438.5	494.6	451.2	1771.8	2393.8	2251.0	1035.0
80°	104.5	117.3	181.0	239.6	280.4	198.8	188.6	494.6	532.8	532.8	260.0
82.5°	35.7	45.9	96.9	158.1	137.7	76.5	89.2	127.5	142.8	150.4	76.5
85°	0.0	0.0	22.9	45.9	20.4	10.2	22.9	28.0	35.7	38.2	25.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.6	10.2	10.2
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°	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1
2.5°	2605.4	2485.6	2304.6	2141.4	2016.5	1899.2	1810.0	1738.6	1725.9	1685.1	1690.2
5°	2722.7	2506.0	2172.0	1914.5	1733.5	1611.2	1509.2	1432.7	1399.6	1366.4	1340.9
7.5°	2903.7	2590.1	2121.0	1807.5	1595.9	1407.2	1249.2	1121.7	1060.5	1022.3	996.8
10°	3125.5	2707.4	2123.6	1743.7	1430.2	1142.1	925.4	785.2	718.9	698.5	696.0
12.5°	3390.6	2855.2	2144.0	1639.2	1190.5	848.9	685.8	622.0	601.6	583.8	583.8
15°	3671.0	3020.9	2144.0	1448.0	907.6	662.8	594.0	553.2	527.7	517.5	512.4
17.5°	3966.7	3176.4	2093.0	1185.4	696.0	583.8	527.7	489.5	469.1	453.8	448.7
20°	4282.9	3324.3	1965.5	907.6	596.5	522.6	469.1	430.8	410.4	395.1	395.1
22.5°	4604.1	3462.0	1759.0	698.5	527.7	464.0	413.0	377.3	356.9	341.6	341.6
25°	4902.3	3553.7	1493.9	576.1	476.7	413.0	367.1	331.4	308.5	298.3	293.2
27.5°	5180.2	3612.4	1200.7	507.3	428.3	369.7	321.2	288.1	270.2	262.6	257.5
30°	5468.3	3627.7	917.8	461.4	387.5	326.3	280.4	254.9	239.6	229.4	229.4
32.5°	5748.7	3609.8	701.1	423.2	351.8	288.1	249.8	226.9	214.1	206.5	203.9
35°	6034.2	3528.3	568.5	390.0	316.1	252.4	221.8	203.9	196.3	186.1	186.1
37.5°	6345.3	3418.6	494.6	356.9	280.4	226.9	198.8	186.1	175.9	168.3	165.7
40°	6732.7	3291.2	453.8	328.9	247.3	203.9	178.5	165.7	158.1	150.4	147.9
42.5°	7191.6	3166.3	433.4	298.3	221.8	181.0	160.6	145.3	137.7	127.5	124.9
45°	7841.7	3138.2	410.4	265.1	198.8	163.2	140.2	124.9	114.7	107.1	104.5
47.5°	8886.9	3217.2	372.2	229.4	175.9	142.8	119.8	107.1	94.3	86.7	81.6
50°	9924.5	3196.8	334.0	198.8	155.5	122.4	102.0	89.2	76.5	68.8	66.3
52.5°	10490.4	3100.0	298.3	175.9	135.1	104.5	86.7	71.4	63.7	56.1	53.5
55°	11002.9	3061.7	262.6	153.0	114.7	91.8	71.4	58.6	53.5	45.9	43.3
57.5°	12007.3	3151.0	232.0	132.6	99.4	79.0	61.2	48.4	43.3	35.7	33.1
60°	13057.6	3161.2	198.8	114.7	86.7	66.3	48.4	38.2	33.1	25.5	22.9
62.5°	13605.7	2903.7	163.2	96.9	71.4	56.1	40.8	30.6	25.5	15.3	15.3
65°	13146.8	2347.9	137.7	79.0	56.1	43.3	30.6	22.9	15.3	7.6	2.5
67.5°	11635.1	1669.8	114.7	63.7	40.8	30.6	22.9	15.3	2.5	0.0	0.0
70°	8519.8	953.4	89.2	45.9	30.6	20.4	15.3	7.6	0.0	0.0	0.0
72.5°	5236.3	509.9	66.3	30.6	22.9	15.3	12.7	5.1	0.0	0.0	0.0
75°	1985.9	244.7	40.8	20.4	17.8	12.7	7.6	2.5	0.0	0.0	0.0
77.5°	537.9	119.8	22.9	15.3	12.7	7.6	5.1	0.0	0.0	0.0	0.0
80°	140.2	56.1	15.3	10.2	7.6	5.1	0.0	0.0	0.0	0.0	0.0
82.5°	48.4	25.5	7.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
85°	20.4	10.2	5.1	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	2.5	2.5	2.5	2.5	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)