

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: P639704

Luminaire Tested: GWS-SA5C-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639704
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-SA5C-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18941.1 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

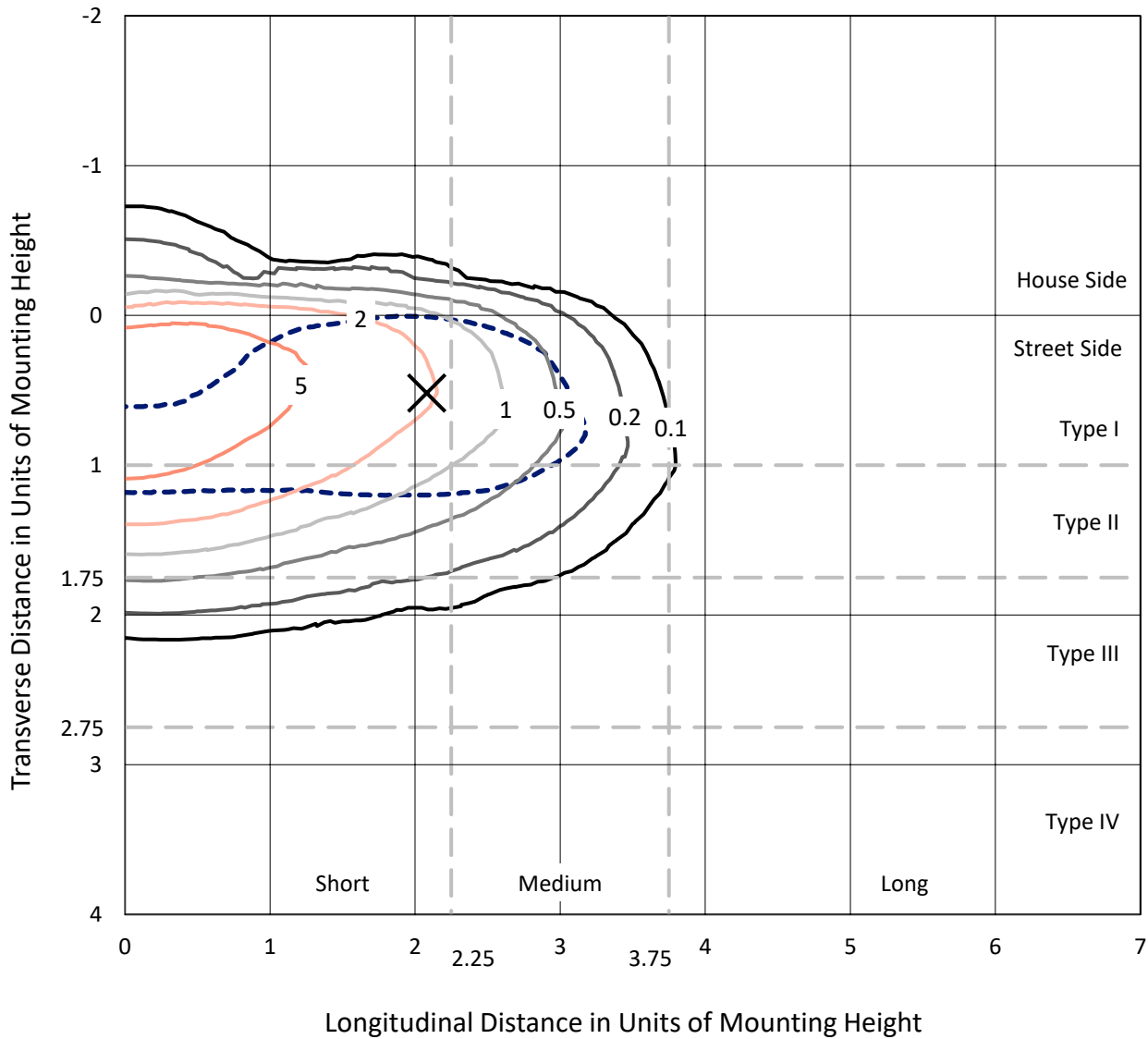
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639704
 CATALOG NUMBER: GWS-SA5C-735-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

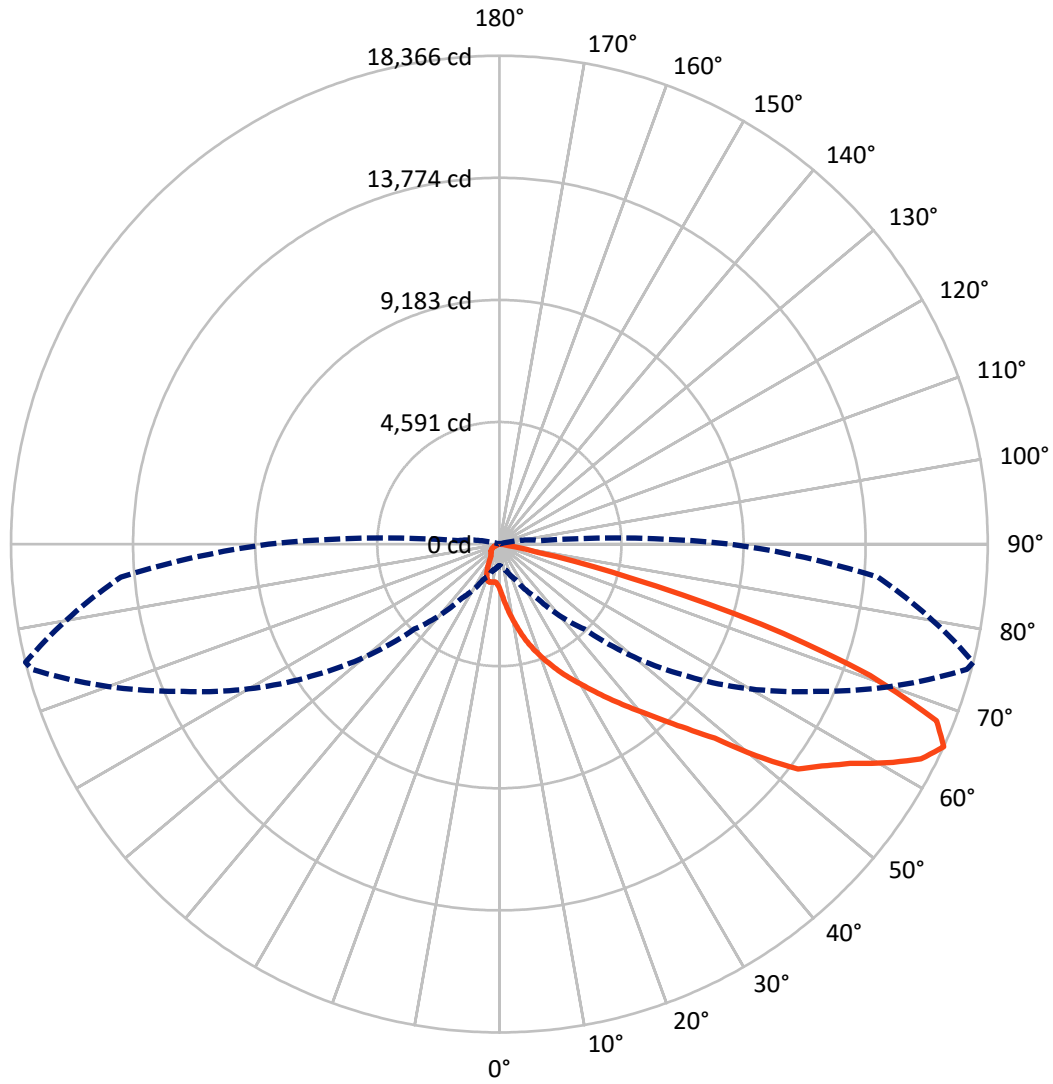
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

REPORT NUMBER: P639704
CATALOG NUMBER: GWS-SA5C-735-U-T2R-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639704

CATALOG NUMBER: GWS-SA5C-735-U-T2R-W-HSS

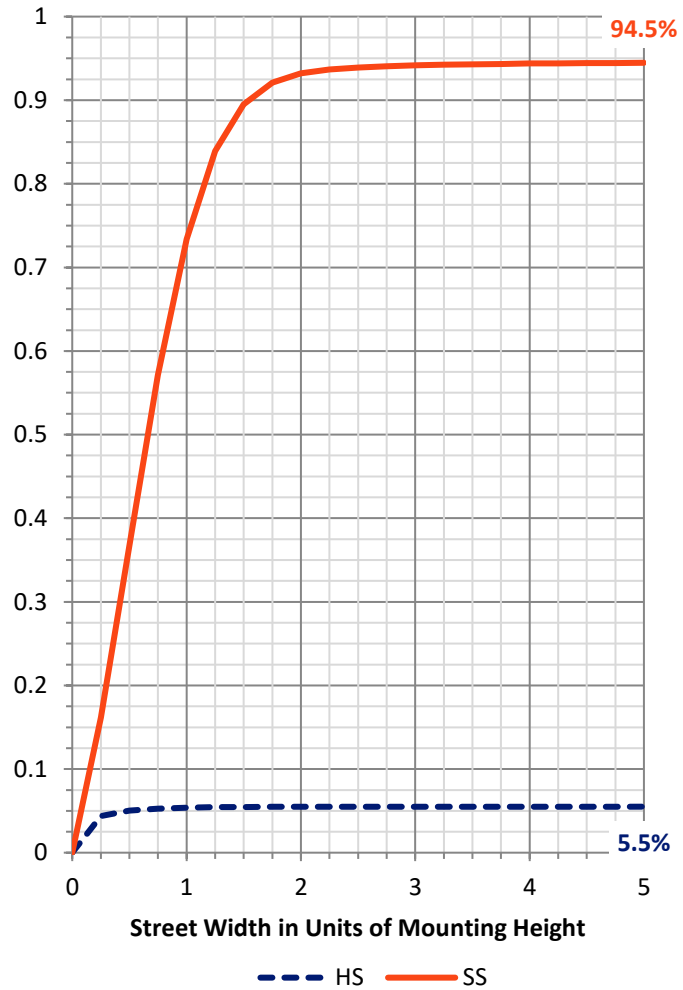
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1047.3	0.0	1047.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	17893.8	0.0	17893.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	18941.1	0.0	18941.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.1
10°-20°	774.1	4.1
20°-30°	1579.3	8.3
30°-40°	2808.9	14.8
40°-50°	4152.2	21.9
50°-60°	4753.9	25.1
60°-70°	3627.0	19.1
70°-80°	1016.0	5.4
80°-90°	25.6	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°	18941.1	100.0
0°-180°	18941.1	100.0

Coefficient of Utilization



REPORT NUMBER: P639704

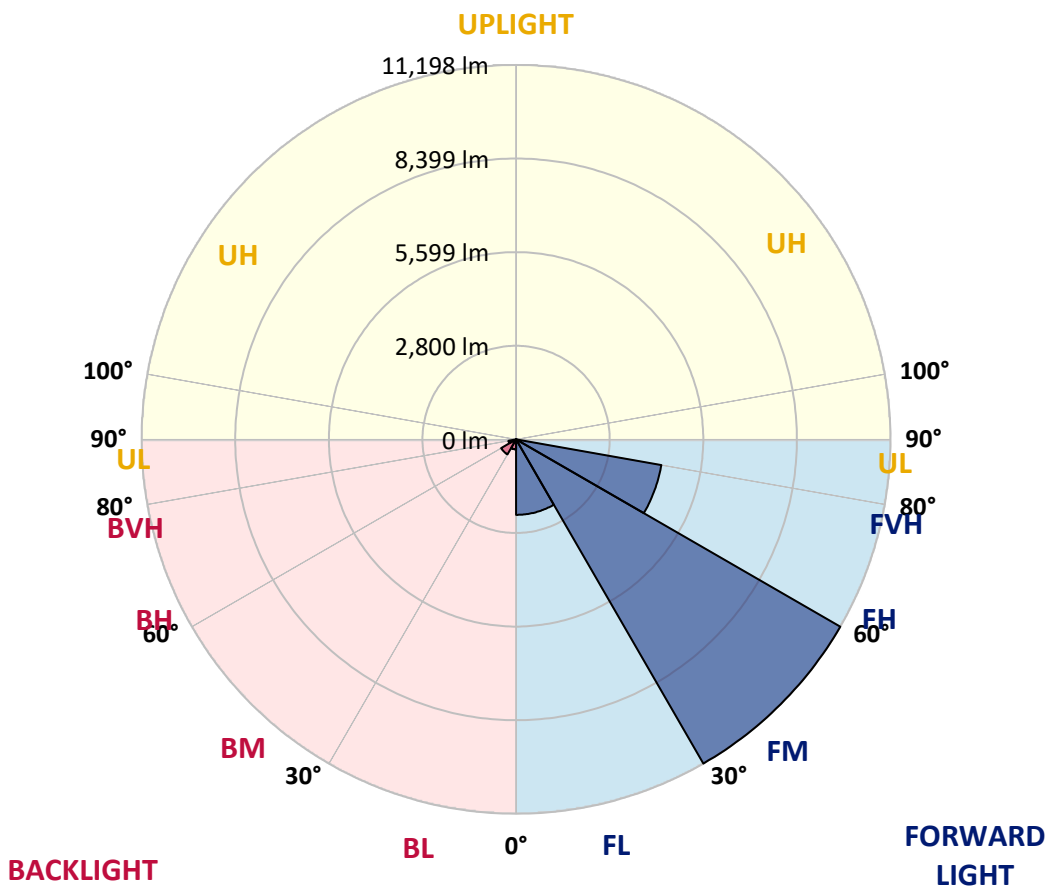
CATALOG NUMBER: GWS-SA5C-735-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2258.6	11.9			
FM (30°-60°)	11198.3	59.1			
FH (60°-80°)	4412.8	23.3			G2/5000
FVH (80°-90°)	24.1	0.1			G1/100
BL (0°-30°)	298.9	1.6	B1/500		
BM (30°-60°)	516.7	2.7	B1/1000		
BH (60°-80°)	230.2	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	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: P639704

CATALOG NUMBER: GWS-SA5C-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	2584.5	2623.2	2592.9	2542.4	2444.8	2350.5	2229.2	2062.5	1929.5	1912.7	1788.1
5°	3490.3	3487.0	3421.3	3355.6	3252.9	3091.3	2847.2	2537.4	2239.3	2214.1	1934.6
7.5°	4029.1	4034.2	3997.1	3946.6	3845.6	3678.9	3424.7	3050.9	2614.8	2564.3	2134.9
10°	4482.0	4480.4	4453.4	4429.8	4338.9	4227.8	3955.0	3544.2	3018.9	2939.8	2358.9
12.5°	4822.2	4833.9	4847.4	4871.0	4832.3	4722.8	4465.2	4017.3	3428.0	3340.5	2614.8
15°	5091.5	5094.9	5145.4	5236.3	5268.3	5211.1	4977.1	4475.3	3832.1	3756.4	2909.5
17.5°	5172.4	5179.1	5265.0	5431.7	5600.0	5632.0	5455.2	4936.6	4229.5	4148.7	3195.7
20°	5342.4	5357.6	5421.6	5568.0	5780.2	5951.9	5882.9	5403.0	4626.8	4520.8	3488.7
22.5°	5877.8	5886.3	5864.4	5882.9	5992.3	6191.0	6233.1	5854.3	5034.3	4921.5	3805.2
25°	6798.8	6802.2	6649.0	6504.2	6421.7	6458.7	6551.3	6270.1	5438.4	5327.3	4099.8
27.5°	7755.2	7767.0	7583.4	7337.6	7043.0	6874.6	6847.7	6650.7	5845.9	5722.9	4391.1
30°	8656.0	8656.0	8462.3	8162.6	7768.7	7440.3	7246.7	7034.6	6281.9	6147.2	4689.1
32.5°	9465.8	9459.1	9211.6	8886.6	8497.7	8137.4	7729.9	7435.3	6766.8	6617.0	5032.6
35°	10134.3	10117.4	9836.3	9524.8	9108.9	8841.2	8386.6	7866.3	7292.2	7142.3	5386.2
37.5°	10639.4	10620.9	10363.3	10033.2	9647.7	9474.3	9093.7	8383.2	7846.1	7709.7	5778.5
40°	10913.8	10876.8	10698.3	10452.5	10129.2	9977.7	9819.4	9024.7	8497.7	8327.6	6241.5
42.5°	10994.6	10950.9	10833.0	10718.5	10523.2	10403.7	10573.7	9748.7	9213.3	9066.8	6770.2
45°	10755.6	10730.3	10720.2	10802.7	10838.1	10871.7	11291.0	10550.1	10002.9	9891.8	7435.3
47.5°	10179.7	10173.0	10262.2	10605.7	10979.5	11334.8	12070.5	11538.5	11026.6	10907.1	8364.7
50°	9115.6	9184.7	9433.8	10036.6	10784.2	11597.4	12799.6	12909.0	12683.4	12508.3	9577.0
52.5°	7452.1	7585.1	8144.1	9060.1	10134.3	11523.3	13136.3	14006.8	14237.5	14055.6	10445.8
55°	5847.5	5972.1	6470.5	7632.3	9065.1	10959.3	13151.5	14385.6	14889.1	14720.7	11033.4
57.5°	4355.8	4470.3	4923.2	6034.4	7610.4	9849.7	12791.2	14596.1	15661.9	15554.1	11961.1
60°	2847.2	2960.0	3369.1	4340.6	5903.1	8233.4	11903.9	14552.3	16714.2	16704.1	13101.0
62.5°	1579.3	1668.6	1964.9	2722.6	4120.0	6376.2	10509.7	14112.9	17732.9	17796.8	14040.5
65°	808.2	865.4	1045.6	1496.8	2493.6	4520.8	8676.2	13106.0	18204.3	18365.9	14288.0
67.5°	528.7	547.2	591.0	777.9	1335.2	2843.8	6529.4	11491.3	17540.9	17729.5	13457.9
70°	429.3	444.5	469.8	518.6	688.6	1510.3	4288.4	9177.9	14656.7	14784.7	10716.8
72.5°	314.9	335.1	383.9	415.9	496.7	828.4	2230.9	6024.3	10065.2	10290.9	6734.9
75°	232.4	244.1	284.5	328.3	405.8	523.6	853.6	3167.1	5197.6	5066.3	2828.6
77.5°	139.7	148.2	181.8	210.5	289.6	326.6	298.0	1170.2	1581.0	1486.7	683.6
80°	69.0	77.5	119.5	158.3	185.2	131.3	124.6	326.6	351.9	351.9	171.7
82.5°	23.6	30.3	64.0	104.4	90.9	50.5	58.9	84.2	94.3	99.3	50.5
85°	0.0	0.0	15.2	30.3	13.5	6.7	15.2	18.5	23.6	25.3	16.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	6.7	6.7
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: P639704
 CATALOG NUMBER: GWS-SA5C-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	1720.8	1641.6	1522.1	1414.3	1331.8	1254.4	1195.4	1148.3	1139.9	1112.9	1116.3
5°	1798.2	1655.1	1434.5	1264.5	1144.9	1064.1	996.8	946.2	924.4	902.5	885.6
7.5°	1917.7	1710.7	1400.8	1193.8	1054.0	929.4	825.0	740.8	700.4	675.2	658.3
10°	2064.2	1788.1	1402.5	1151.7	944.6	754.3	611.2	518.6	474.8	461.3	459.7
12.5°	2239.3	1885.8	1416.0	1082.6	786.3	560.7	452.9	410.8	397.4	385.6	385.6
15°	2424.5	1995.2	1416.0	956.3	599.4	437.8	392.3	365.4	348.5	341.8	338.4
17.5°	2619.9	2097.9	1382.3	782.9	459.7	385.6	348.5	323.3	309.8	299.7	296.3
20°	2828.6	2195.6	1298.1	599.4	394.0	345.2	309.8	284.5	271.1	261.0	261.0
22.5°	3040.8	2286.5	1161.8	461.3	348.5	306.4	272.8	249.2	235.7	225.6	225.6
25°	3237.8	2347.1	986.7	380.5	314.9	272.8	242.5	218.9	203.7	197.0	193.6
27.5°	3421.3	2385.8	793.0	335.1	282.9	244.1	212.1	190.3	178.5	173.4	170.1
30°	3611.6	2395.9	606.1	304.8	255.9	215.5	185.2	168.4	158.3	151.5	151.5
32.5°	3796.8	2384.1	463.0	279.5	232.4	190.3	165.0	149.9	141.4	136.4	134.7
35°	3985.3	2330.3	375.5	257.6	208.8	166.7	146.5	134.7	129.6	122.9	122.9
37.5°	4190.8	2257.9	326.6	235.7	185.2	149.9	131.3	122.9	116.2	111.1	109.4
40°	4446.7	2173.7	299.7	217.2	163.3	134.7	117.9	109.4	104.4	99.3	97.7
42.5°	4749.8	2091.2	286.2	197.0	146.5	119.5	106.1	96.0	90.9	84.2	82.5
45°	5179.1	2072.7	271.1	175.1	131.3	107.8	92.6	82.5	75.8	70.7	69.0
47.5°	5869.4	2124.8	245.8	151.5	116.2	94.3	79.1	70.7	62.3	57.2	53.9
50°	6554.7	2111.4	220.6	131.3	102.7	80.8	67.3	58.9	50.5	45.5	43.8
52.5°	6928.5	2047.4	197.0	116.2	89.2	69.0	57.2	47.1	42.1	37.0	35.4
55°	7266.9	2022.1	173.4	101.0	75.8	60.6	47.1	38.7	35.4	30.3	28.6
57.5°	7930.3	2081.1	153.2	87.6	65.7	52.2	40.4	32.0	28.6	23.6	21.9
60°	8624.0	2087.8	131.3	75.8	57.2	43.8	32.0	25.3	21.9	16.8	15.2
62.5°	8986.0	1917.7	107.8	64.0	47.1	37.0	26.9	20.2	16.8	10.1	10.1
65°	8682.9	1550.7	90.9	52.2	37.0	28.6	20.2	15.2	10.1	5.1	1.7
67.5°	7684.5	1102.8	75.8	42.1	26.9	20.2	15.2	10.1	1.7	0.0	0.0
70°	5627.0	629.7	58.9	30.3	20.2	13.5	10.1	5.1	0.0	0.0	0.0
72.5°	3458.3	336.7	43.8	20.2	15.2	10.1	8.4	3.4	0.0	0.0	0.0
75°	1311.6	161.6	26.9	13.5	11.8	8.4	5.1	1.7	0.0	0.0	0.0
77.5°	355.3	79.1	15.2	10.1	8.4	5.1	3.4	0.0	0.0	0.0	0.0
80°	92.6	37.0	10.1	6.7	5.1	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	16.8	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
85°	13.5	6.7	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.7	1.7	1.7	1.7	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)