

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: P639700

Luminaire Tested: GWS-SA5C-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17592.5 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

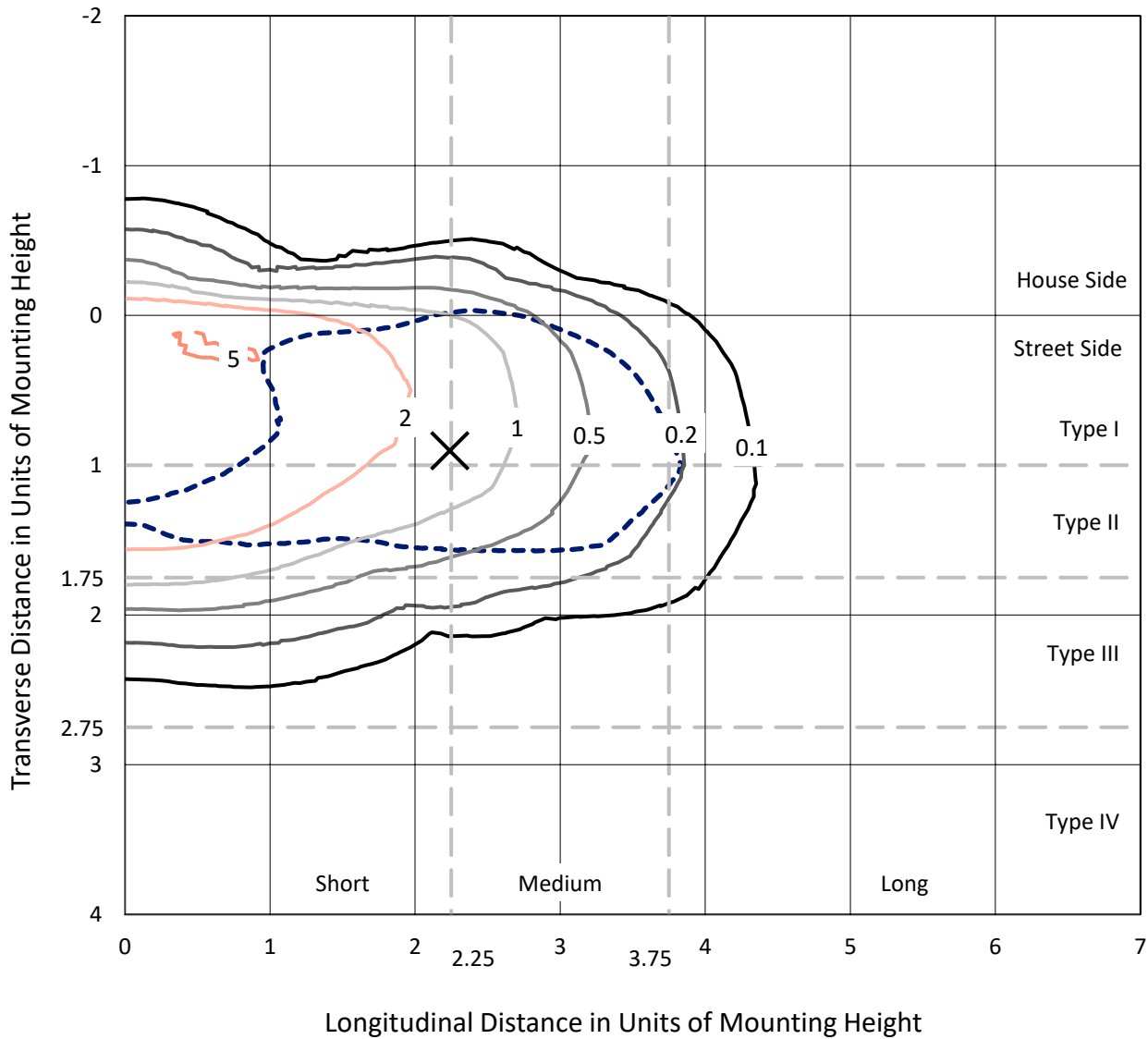
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639700
 CATALOG NUMBER: GWS-SA5C-735-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

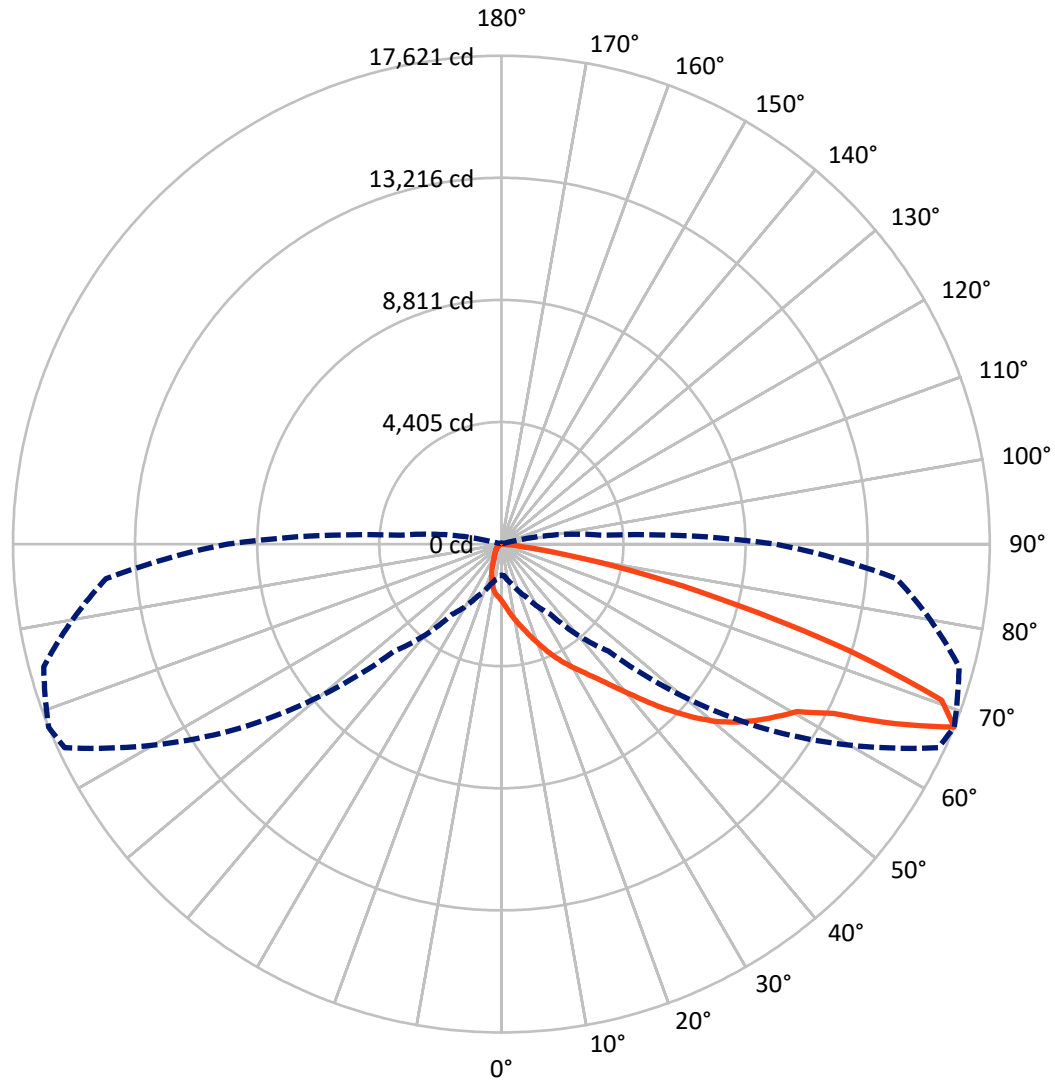
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P639700
CATALOG NUMBER: GWS-SA5C-735-U-T2-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P639700
 CATALOG NUMBER: GWS-SA5C-735-U-T2-W-HSS

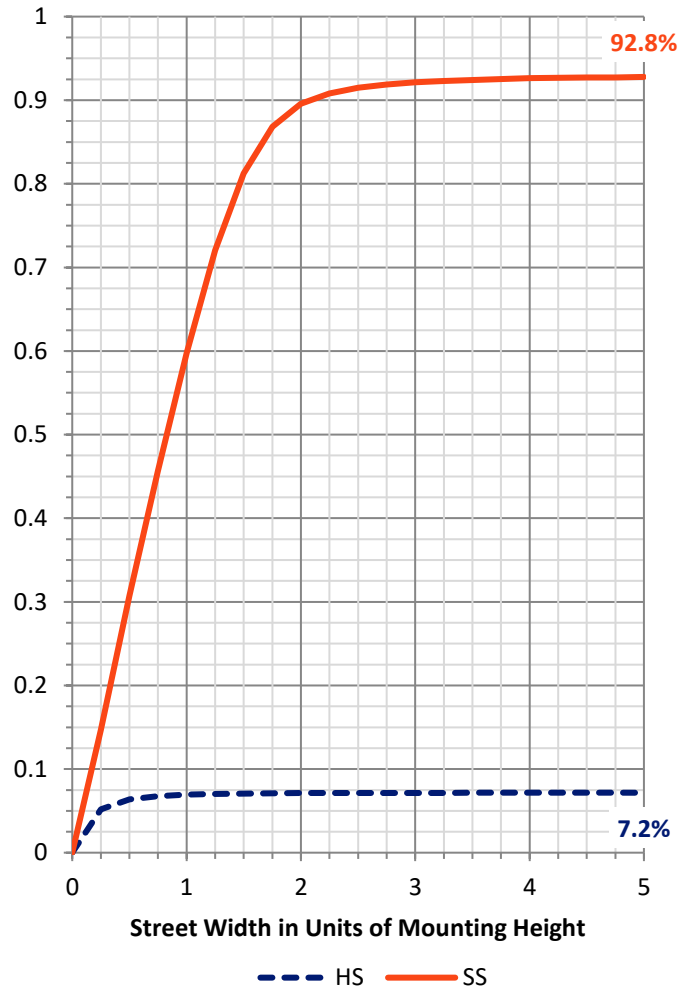
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1270.4	0.0	1270.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16322.1	0.0	16322.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	17592.5	0.0	17592.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	1.1
10°-20°	573.4	3.3
20°-30°	985.4	5.6
30°-40°	1713.2	9.7
40°-50°	2989.4	17.0
50°-60°	4508.8	25.6
60°-70°	4521.2	25.7
70°-80°	1994.7	11.3
80°-90°	106.6	0.6
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°	17592.5	100.0
0°-180°	17592.5	100.0

Coefficient of Utilization



REPORT NUMBER: P639700

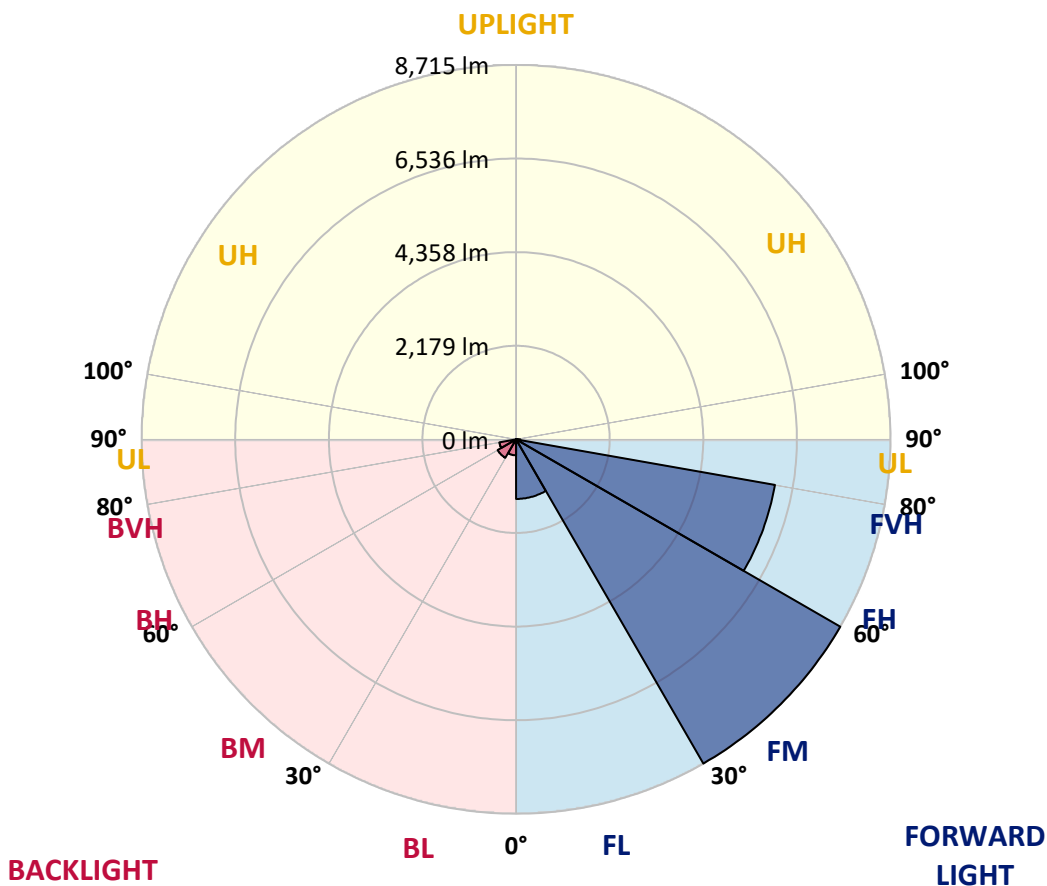
CATALOG NUMBER: GWS-SA5C-735-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.8	7.9			
FM (30°-60°)	8715.3	49.5			
FH (60°-80°)	6119.5	34.8			G3/7500
FVH (80°-90°)	100.5	0.6			G2/225
BL (0°-30°)	371.7	2.1	B1/500		
BM (30°-60°)	496.2	2.8	B1/1000		
BH (60°-80°)	396.5	2.3	B1/500		G1/500
BVH (80°-90°)	6.0	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-G3

Type II Short





REPORT NUMBER: P639700

CATALOG NUMBER: GWS-SA5C-735-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3
2.5°	2384.0	2399.2	2384.0	2387.4	2343.6	2323.4	2279.7	2219.1	2203.9	2165.2	2106.2
5°	2675.3	2688.8	2673.6	2670.3	2619.8	2582.7	2510.3	2405.9	2375.6	2299.9	2183.7
7.5°	2833.6	2842.0	2847.1	2855.5	2837.0	2806.6	2741.0	2611.3	2579.4	2456.4	2293.1
10°	2850.4	2857.2	2882.4	2932.9	2970.0	2988.5	2951.4	2831.9	2781.4	2661.9	2427.8
12.5°	2803.3	2813.4	2853.8	2938.0	3040.7	3135.0	3158.5	3054.1	3008.7	2855.5	2586.1
15°	2741.0	2749.4	2805.0	2919.5	3074.3	3247.8	3345.4	3300.0	3249.4	3089.5	2761.2
17.5°	2645.0	2656.8	2734.2	2889.1	3089.5	3337.0	3547.5	3562.6	3527.2	3353.8	2954.8
20°	2591.1	2599.6	2668.6	2828.5	3079.4	3402.7	3736.0	3879.1	3840.4	3658.6	3177.0
22.5°	2636.6	2643.3	2688.8	2813.4	3045.7	3439.7	3911.1	4195.7	4173.8	3985.2	3411.1
25°	2875.7	2897.6	2870.6	2892.5	3060.9	3459.9	4052.5	4512.2	4517.2	4327.0	3653.5
27.5°	3360.6	3331.9	3268.0	3158.5	3178.7	3513.8	4173.8	4810.2	4854.0	4660.3	3869.0
30°	3853.9	3837.0	3798.3	3628.3	3486.8	3633.3	4276.5	5114.9	5184.0	4988.7	4061.0
32.5°	4407.8	4424.6	4355.6	4151.9	3911.1	3875.8	4382.5	5404.5	5534.2	5360.7	4286.6
35°	5069.5	5074.5	4938.1	4712.5	4439.8	4276.5	4572.8	5724.4	5963.5	5835.5	4587.9
37.5°	5714.3	5744.6	5670.5	5315.3	5072.8	4774.8	4887.6	6135.2	6472.0	6421.4	4966.8
40°	6285.1	6332.2	6308.6	5965.2	5647.0	5396.1	5375.9	6616.7	7086.5	7143.7	5466.8
42.5°	6739.7	6770.0	6788.5	6544.4	6263.2	6121.8	5978.6	7175.7	7812.1	8046.2	6079.7
45°	7219.5	7229.6	7268.3	7103.3	6857.5	6869.3	6690.8	7854.2	8576.5	9046.3	6783.4
47.5°	7830.7	7864.3	7845.8	7672.4	7450.2	7583.2	7426.6	8552.9	9330.8	10113.7	7504.0
50°	8574.8	8610.2	8593.4	8391.3	8143.8	8199.4	8101.7	9231.5	10058.1	11120.5	8103.4
52.5°	8958.7	8987.3	9196.1	9287.0	9157.4	8803.8	8677.5	9977.3	10672.7	11948.9	8654.0
55°	8773.5	8793.7	9248.3	9632.2	10107.0	9753.4	9256.7	10553.1	11214.8	12595.4	9063.1
57.5°	8005.8	8115.2	8733.1	9383.0	10381.4	10691.2	10196.2	11179.4	11736.7	13044.9	9465.5
60°	6431.5	6426.5	7312.1	8478.9	9846.0	10948.8	11522.9	12026.3	12260.3	13390.1	10004.3
62.5°	3554.2	3586.2	4764.7	6301.9	8357.6	10282.1	12517.9	13489.4	13454.1	13992.8	10847.8
65°	1769.5	1833.5	2473.3	3609.7	5561.1	8497.4	12689.7	15721.9	15620.9	15412.1	12590.3
67.5°	1123.0	1148.3	1501.8	2097.8	3091.2	5461.8	11620.6	17387.1	17621.1	17095.8	14319.5
70°	727.3	769.4	1043.9	1434.5	1865.5	2815.1	8512.5	16307.8	16844.9	16910.6	13241.9
72.5°	395.7	426.0	666.7	1023.7	1346.9	1407.5	4781.6	12238.5	13102.2	14344.7	10359.5
75°	225.6	247.5	365.4	695.3	988.3	857.0	2119.7	8192.6	8743.2	10251.8	7423.2
77.5°	136.4	154.9	205.4	338.4	619.6	572.4	801.4	4987.0	5337.2	6116.7	3896.0
80°	62.3	74.1	129.6	186.9	338.4	271.1	306.4	2325.1	2400.9	2510.3	1289.7
82.5°	28.6	33.7	58.9	111.1	191.9	156.6	117.9	537.1	756.0	715.6	328.3
85°	3.4	3.4	21.9	45.5	53.9	40.4	48.8	121.2	153.2	215.5	94.3
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	10.1	15.2	21.9	35.4	23.6
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: P639700
 CATALOG NUMBER: GWS-SA5C-735-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3	2047.3
2.5°	2079.3	2032.2	1990.1	1927.8	1885.7	1838.5	1806.6	1767.8	1752.7	1740.9	1724.1
5°	2126.5	2050.7	1948.0	1833.5	1739.2	1650.0	1567.5	1513.6	1466.5	1459.7	1436.2
7.5°	2203.9	2091.1	1917.7	1730.8	1570.8	1422.7	1306.5	1212.2	1165.1	1149.9	1123.0
10°	2306.6	2151.7	1872.2	1586.0	1355.3	1178.6	1047.2	941.2	867.1	840.1	819.9
12.5°	2421.1	2207.3	1799.8	1407.5	1144.9	942.8	776.2	663.4	616.2	599.4	584.2
15°	2552.4	2259.5	1685.3	1229.1	939.5	693.7	575.8	527.0	506.8	501.7	496.7
17.5°	2678.7	2293.1	1549.0	1043.9	722.3	538.8	483.2	464.7	459.6	454.6	451.2
20°	2821.8	2316.7	1389.0	868.8	560.7	456.3	429.3	415.9	405.8	395.7	394.0
22.5°	2968.3	2316.7	1215.6	697.0	469.7	409.1	378.8	353.6	335.0	324.9	321.6
25°	3108.0	2284.7	1043.9	557.3	414.2	363.7	324.9	296.3	271.1	259.3	255.9
27.5°	3207.4	2202.2	894.0	471.4	375.5	323.3	276.1	244.1	223.9	212.1	210.5
30°	3269.7	2079.3	756.0	420.9	341.8	281.2	234.0	207.1	191.9	183.5	180.2
32.5°	3316.8	1927.8	633.1	385.6	309.8	244.1	203.7	181.8	168.4	161.6	159.9
35°	3411.1	1784.7	542.1	353.6	276.1	213.8	178.5	161.6	151.5	143.1	141.4
37.5°	3542.4	1665.1	469.7	324.9	244.1	190.3	161.6	146.5	138.1	129.6	128.0
40°	3736.0	1589.4	415.9	296.3	215.5	171.7	148.2	134.7	122.9	114.5	112.8
42.5°	4034.0	1554.0	380.5	267.7	190.3	154.9	136.4	119.5	107.8	99.3	97.7
45°	4389.3	1572.5	350.2	239.1	173.4	143.1	121.2	104.4	92.6	84.2	82.5
47.5°	4769.8	1638.2	324.9	212.1	156.6	131.3	107.8	89.2	79.1	70.7	69.0
50°	5167.1	1745.9	303.1	186.9	143.1	117.9	92.6	77.4	67.3	60.6	58.9
52.5°	5512.3	1892.4	281.2	168.4	131.3	104.4	80.8	67.3	57.2	50.5	48.8
55°	5842.3	2030.5	264.3	151.5	117.9	90.9	70.7	57.2	48.8	42.1	40.4
57.5°	6200.9	2177.0	244.1	136.4	106.1	80.8	62.3	48.8	42.1	35.4	33.7
60°	6722.8	2394.2	213.8	124.6	92.6	70.7	53.9	43.8	37.0	28.6	26.9
62.5°	7475.4	2789.8	180.2	107.8	79.1	60.6	45.5	37.0	30.3	23.6	20.2
65°	8882.9	3463.3	148.2	89.2	64.0	50.5	38.7	30.3	23.6	16.8	15.2
67.5°	9896.5	3638.4	119.5	72.4	52.2	38.7	32.0	23.6	16.8	11.8	10.1
70°	8652.3	2613.0	92.6	58.9	43.8	30.3	25.3	18.5	11.8	8.4	6.7
72.5°	6519.1	1707.2	69.0	45.5	33.7	25.3	18.5	15.2	10.1	6.7	5.1
75°	4594.7	986.6	50.5	33.7	23.6	18.5	15.2	11.8	8.4	5.1	5.1
77.5°	2355.4	407.4	35.4	23.6	16.8	11.8	10.1	6.7	6.7	5.1	3.4
80°	715.6	134.7	20.2	15.2	11.8	8.4	5.1	5.1	5.1	3.4	1.7
82.5°	163.3	43.8	11.8	11.8	8.4	6.7	5.1	1.7	1.7	0.0	0.0
85°	42.1	13.5	10.1	8.4	8.4	6.7	3.4	1.7	0.0	0.0	0.0
87.5°	15.2	8.4	8.4	8.4	6.7	5.1	3.4	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)