

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: P639217

Luminaire Tested: GWS-SA5B-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13709.2 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

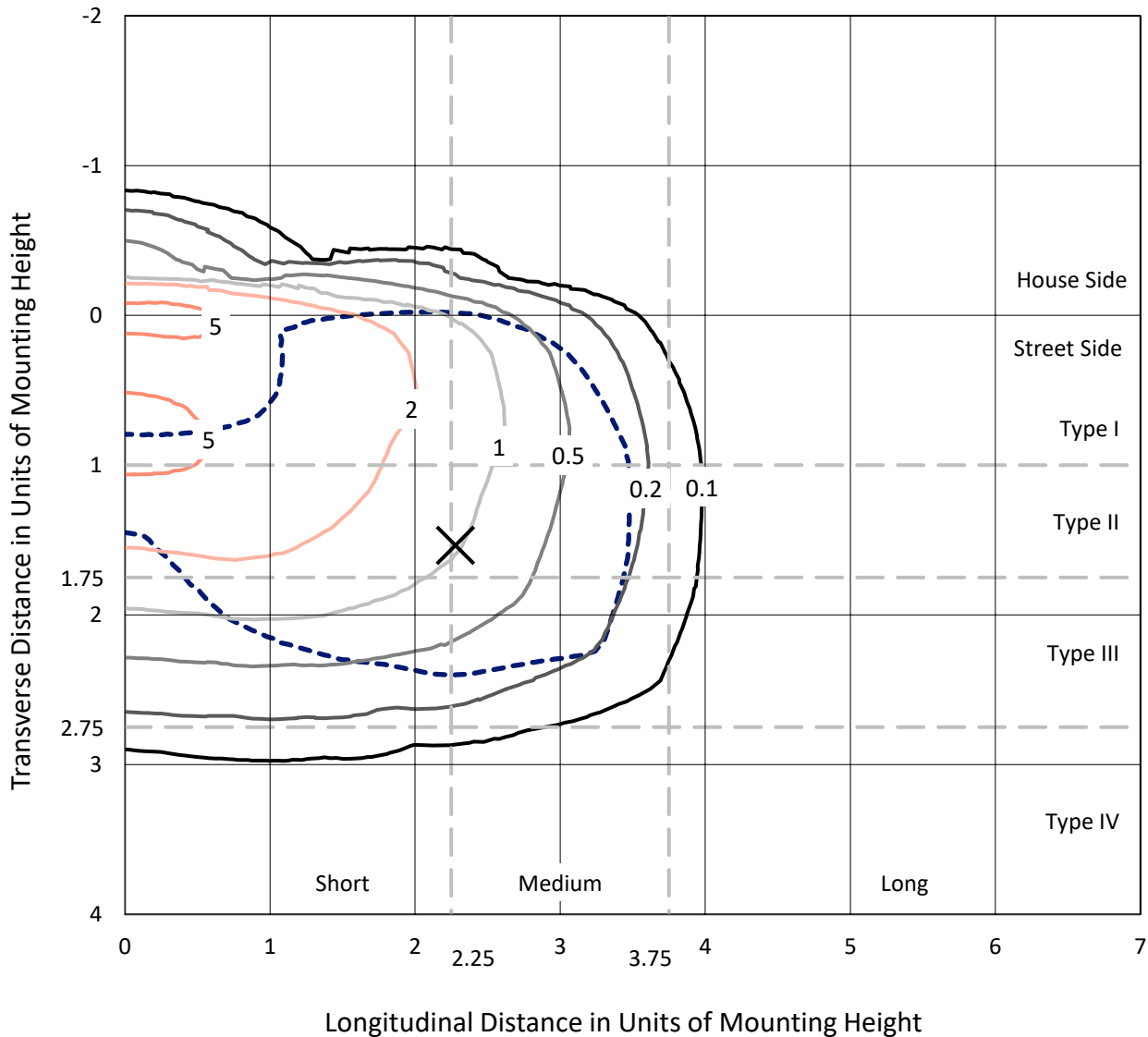
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639217
 CATALOG NUMBER: GWS-SA5B-735-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

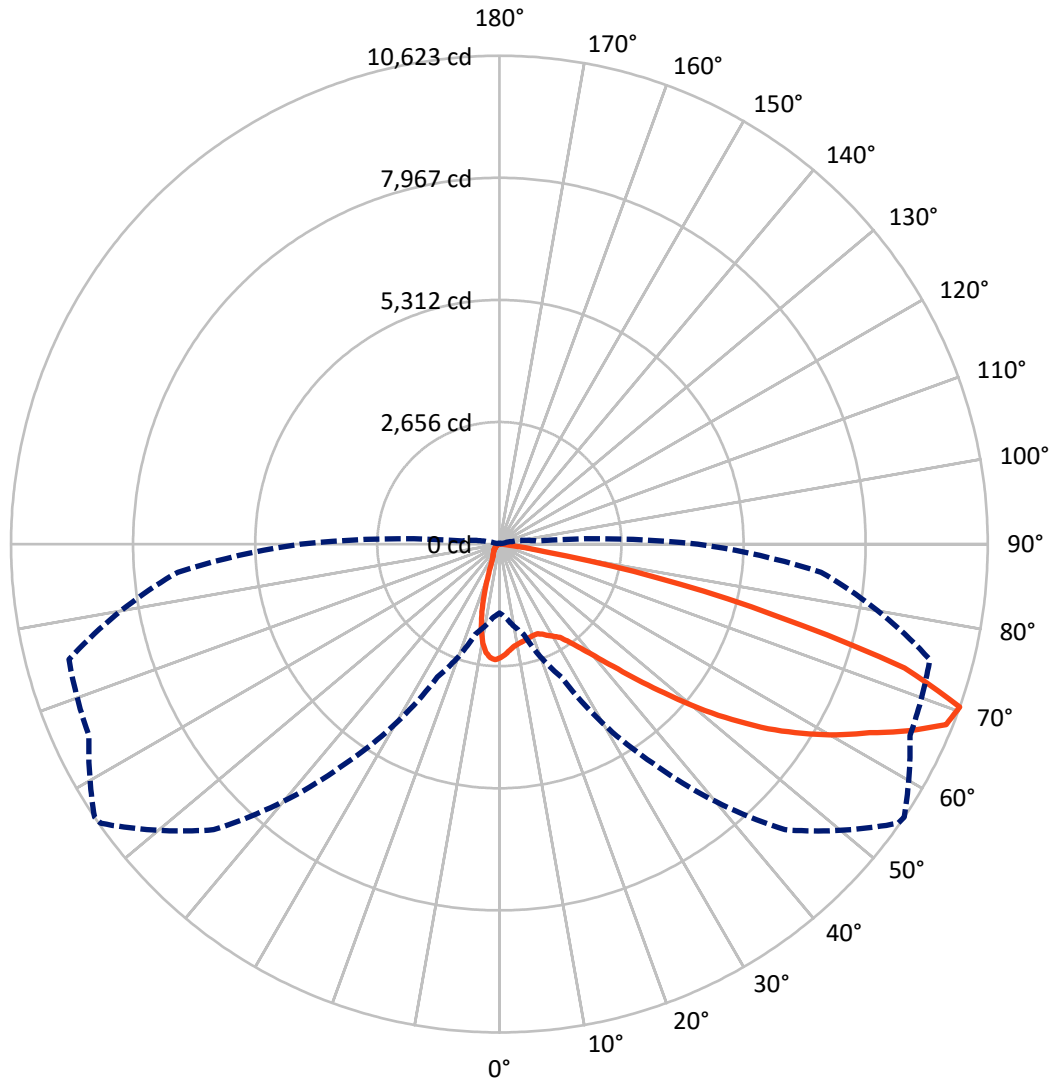
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P639217
CATALOG NUMBER: GWS-SA5B-735-U-T3R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P639217
 CATALOG NUMBER: GWS-SA5B-735-U-T3R-W-HSS

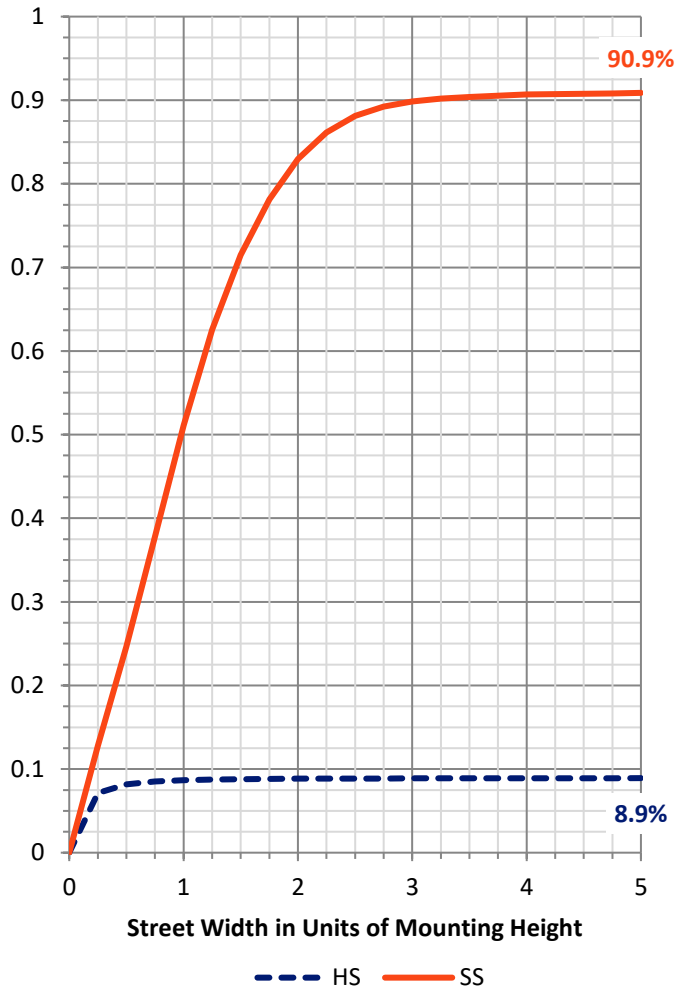
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1231.3	0.0	1231.3
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	12477.8	0.0	12477.8
	% Fixture	91.0	0.0	91.0
Total	Lumens	13709.2	0.0	13709.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	1.5
10°-20°	477.3	3.5
20°-30°	756.1	5.5
30°-40°	1303.9	9.5
40°-50°	2201.9	16.1
50°-60°	3235.2	23.6
60°-70°	3835.5	28.0
70°-80°	1635.6	11.9
80°-90°	51.4	0.4
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°	13709.2	100.0
0°-180°	13709.2	100.0

Coefficient of Utilization



REPORT NUMBER: P639217

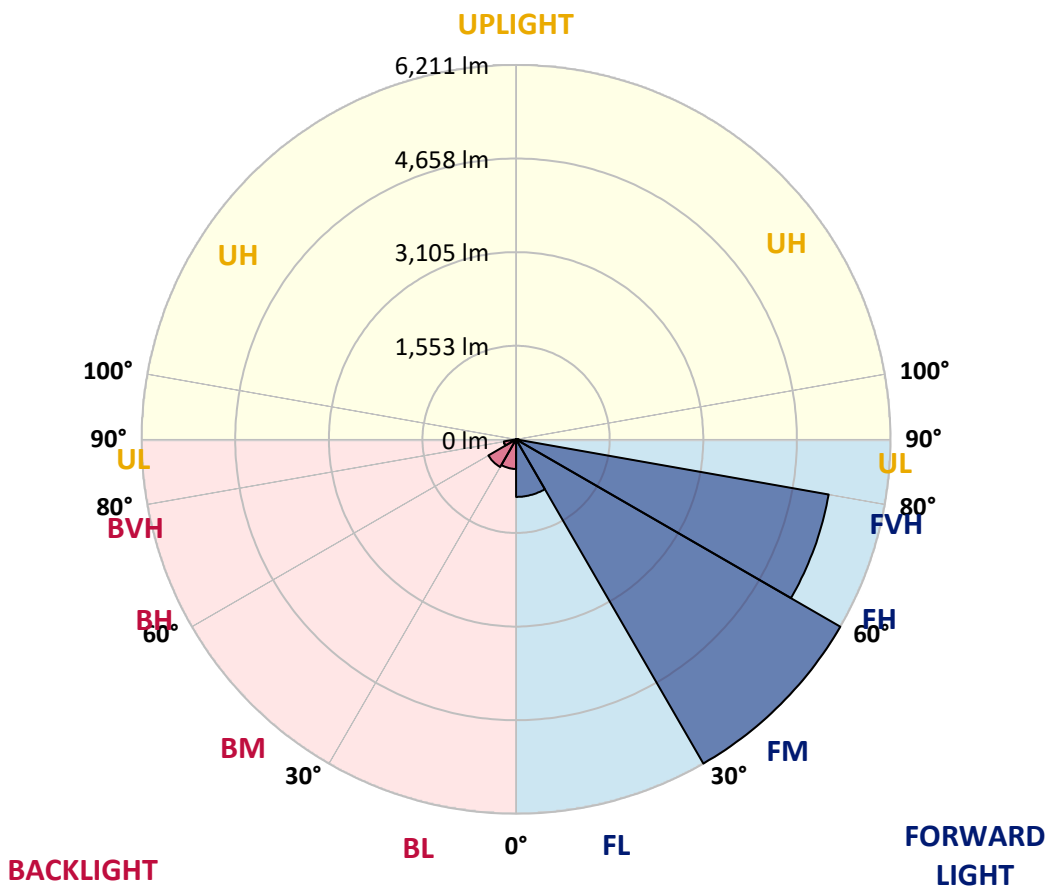
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.3	7.0			
FM (30°-60°)	6210.6	45.3			
FH (60°-80°)	5265.8	38.4			G3/7500
FVH (80°-90°)	46.1	0.3			G1/100
BL (0°-30°)	490.4	3.6	B1/500		
BM (30°-60°)	530.4	3.9	B1/1000		
BH (60°-80°)	205.4	1.5	B1/500		G1/500
BVH (80°-90°)	5.2	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 III Medium





REPORT NUMBER: P639217
 CATALOG NUMBER: GWS-SA5B-735-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9
2.5°	2301.2	2297.4	2299.9	2318.7	2353.9	2370.2	2397.8	2402.9	2425.5	2454.3	2465.6
5°	2151.8	2139.2	2145.5	2171.9	2212.0	2257.2	2308.7	2322.5	2379.0	2443.0	2490.7
7.5°	2014.9	2001.1	2016.2	2057.6	2114.1	2163.1	2239.7	2248.4	2338.8	2451.8	2538.4
10°	1800.3	1804.0	1834.2	1907.0	1993.6	2095.3	2198.2	2210.8	2322.5	2480.7	2615.0
12.5°	1635.8	1627.0	1659.7	1742.5	1864.3	2012.4	2166.8	2183.2	2323.8	2524.6	2712.9
15°	1559.2	1556.7	1570.5	1630.8	1748.8	1923.3	2138.0	2159.3	2340.1	2564.8	2805.8
17.5°	1561.7	1558.0	1556.7	1591.9	1679.7	1856.8	2106.6	2134.2	2353.9	2608.7	2903.8
20°	1671.0	1653.4	1622.0	1605.7	1658.4	1814.1	2085.2	2116.6	2374.0	2655.2	3008.0
22.5°	1899.4	1905.7	1821.6	1733.7	1708.6	1819.1	2082.7	2119.1	2417.9	2728.0	3136.0
25°	2356.4	2346.4	2190.7	1993.6	1856.8	1876.8	2126.7	2170.6	2504.5	2832.2	3256.5
27.5°	2928.9	2937.7	2724.2	2410.4	2124.2	1996.1	2207.0	2251.0	2605.0	2897.5	3336.9
30°	3552.8	3544.0	3315.5	2967.8	2503.3	2194.5	2287.4	2326.3	2655.2	2932.6	3419.7
32.5°	4142.9	4122.8	3896.8	3532.7	2986.6	2507.1	2397.8	2420.4	2721.7	3009.2	3531.5
35°	4646.3	4645.0	4447.9	4060.0	3483.8	2898.7	2587.4	2606.2	2846.0	3131.0	3695.9
37.5°	5166.0	5148.4	4927.5	4573.5	3994.7	3328.1	2877.4	2869.9	3041.9	3310.5	3898.1
40°	5592.9	5581.6	5412.1	5071.9	4525.8	3802.6	3228.9	3206.3	3274.1	3559.1	4179.3
42.5°	5909.2	5910.5	5857.8	5650.6	5088.2	4351.3	3670.8	3635.7	3634.4	3934.5	4550.9
45°	6149.0	6165.3	6244.4	6213.0	5752.3	4990.3	4237.0	4200.6	4139.1	4421.6	4976.5
47.5°	6260.7	6282.1	6520.6	6646.2	6333.6	5624.2	4911.2	4834.6	4714.1	5069.4	5452.3
50°	6249.4	6287.1	6619.8	7001.4	6860.8	6267.0	5645.6	5609.2	5412.1	5754.8	5923.0
52.5°	5993.3	6073.7	6626.1	7217.4	7266.3	6859.6	6405.1	6337.3	6241.9	6470.4	6364.9
55°	5297.8	5395.8	6361.2	7286.4	7582.7	7376.8	7148.3	7093.1	6934.9	7145.8	6750.4
57.5°	4920.0	5004.1	5803.8	7252.5	7851.3	7855.1	7809.9	7764.7	7634.2	7813.7	7202.3
60°	4692.7	4776.8	5506.2	7128.2	8094.9	8359.8	8431.3	8426.3	8238.0	8573.2	7732.1
62.5°	4360.0	4475.5	5196.2	6805.6	8268.1	8856.9	9072.9	9039.0	8829.3	9364.1	8256.8
65°	3688.4	3788.8	4560.9	6273.3	8166.5	9268.7	9768.4	9785.9	9543.6	10108.6	8671.1
67.5°	2586.1	2660.2	3427.3	5156.0	7476.0	9404.3	10480.2	10478.9	10065.9	10490.2	8487.8
70°	1499.0	1600.7	2025.0	3187.5	5816.3	8787.9	10586.9	10623.3	9853.7	9693.0	7024.0
72.5°	580.0	664.1	1147.4	1693.6	3033.1	6731.5	9106.8	9213.5	8246.8	7477.2	4888.6
75°	173.2	193.3	539.8	901.4	1217.7	3251.5	6165.3	6195.5	5656.9	4663.9	2505.8
77.5°	129.3	143.1	236.0	455.7	426.8	985.5	3190.0	3483.8	3002.9	1665.9	690.5
80°	87.9	104.2	168.2	222.2	158.2	262.4	896.4	984.2	916.5	374.1	173.2
82.5°	38.9	50.2	119.3	111.7	57.7	75.3	276.2	293.8	189.6	113.0	60.3
85°	3.8	5.0	45.2	49.0	21.3	17.6	57.7	57.7	41.4	38.9	25.1
87.5°	0.0	0.0	1.3	2.5	2.5	3.8	5.0	6.3	7.5	10.0	12.6
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: P639217
 CATALOG NUMBER: GWS-SA5B-735-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9
2.5°	2494.5	2479.4	2498.3	2513.3	2517.1	2489.5	2473.2	2449.3	2444.3	2445.5	2439.3
5°	2528.4	2520.9	2534.7	2518.4	2475.7	2395.3	2326.3	2249.7	2208.3	2184.4	2181.9
7.5°	2591.2	2587.4	2572.3	2498.3	2365.2	2186.9	2014.9	1846.7	1742.5	1704.8	1698.6
10°	2684.1	2676.5	2615.0	2439.3	2155.5	1812.8	1524.1	1283.0	1136.1	1093.5	1040.7
12.5°	2790.8	2775.7	2641.4	2312.5	1839.2	1364.6	1004.3	734.4	607.6	570.0	570.0
15°	2893.7	2861.1	2626.3	2102.8	1450.0	887.6	561.2	424.3	385.4	375.4	375.4
17.5°	2999.2	2936.4	2567.3	1816.6	1001.8	524.8	374.1	347.7	342.7	344.0	345.2
20°	3098.4	3000.4	2463.1	1472.6	639.0	366.6	335.2	328.9	326.4	328.9	327.7
22.5°	3206.3	3059.4	2304.9	1097.2	415.5	330.2	318.9	313.9	311.3	315.1	315.1
25°	3313.0	3102.1	2095.3	738.2	330.2	307.6	301.3	296.3	293.8	295.0	295.0
27.5°	3368.3	3085.8	1820.3	470.8	296.3	285.0	278.7	272.4	268.7	267.4	268.7
30°	3405.9	3035.6	1483.9	335.2	268.7	254.8	248.6	243.5	233.5	227.2	229.7
32.5°	3464.9	2985.4	1118.6	281.2	246.1	224.7	214.7	202.1	188.3	182.0	182.0
35°	3535.2	2916.3	784.6	253.6	222.2	199.6	180.8	159.4	143.1	138.1	138.1
37.5°	3628.1	2851.0	522.3	234.8	202.1	178.3	151.9	126.8	109.2	106.7	105.5
40°	3767.5	2795.8	367.8	221.0	184.5	155.7	124.3	97.9	85.4	81.6	81.6
42.5°	3948.3	2739.3	291.3	207.1	169.5	134.3	99.2	77.8	67.8	65.3	64.0
45°	4171.7	2672.8	253.6	194.6	154.4	111.7	79.1	65.3	57.7	55.2	55.2
47.5°	4414.0	2582.4	236.0	178.3	136.8	90.4	66.5	56.5	52.7	51.5	50.2
50°	4652.6	2460.6	221.0	163.2	116.8	74.1	57.7	51.5	49.0	47.7	47.7
52.5°	4861.0	2318.7	202.1	145.6	95.4	64.0	51.5	47.7	45.2	42.7	41.4
55°	5039.2	2164.3	178.3	125.5	77.8	56.5	47.7	43.9	41.4	38.9	37.7
57.5°	5269.0	2076.5	143.1	101.7	64.0	50.2	43.9	40.2	37.7	33.9	33.9
60°	5523.8	2012.4	106.7	80.3	55.2	46.5	40.2	36.4	33.9	30.1	30.1
62.5°	5728.4	1917.0	84.1	65.3	47.7	41.4	36.4	32.6	30.1	26.4	26.4
65°	5806.3	1719.9	69.0	51.5	38.9	36.4	32.6	30.1	26.4	22.6	22.6
67.5°	5454.8	1325.7	57.7	41.4	32.6	31.4	28.9	27.6	22.6	20.1	18.8
70°	4319.9	808.5	47.7	33.9	27.6	26.4	26.4	23.9	20.1	18.8	17.6
72.5°	2960.3	416.8	38.9	27.6	23.9	23.9	22.6	21.3	18.8	17.6	17.6
75°	1537.9	139.4	30.1	21.3	18.8	20.1	20.1	18.8	17.6	17.6	16.3
77.5°	440.6	62.8	22.6	16.3	15.1	15.1	16.3	16.3	16.3	15.1	15.1
80°	114.2	36.4	16.3	12.6	12.6	12.6	12.6	13.8	15.1	13.8	13.8
82.5°	46.5	20.1	11.3	10.0	10.0	10.0	10.0	11.3	12.6	12.6	12.6
85°	28.9	10.0	8.8	8.8	8.8	7.5	7.5	8.8	8.8	10.0	10.0
87.5°	17.6	7.5	7.5	7.5	7.5	6.3	6.3	6.3	6.3	6.3	6.3
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)