

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: P639315

Luminaire Tested: GWS-SA5B-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639315
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-SA5B-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13604.9 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

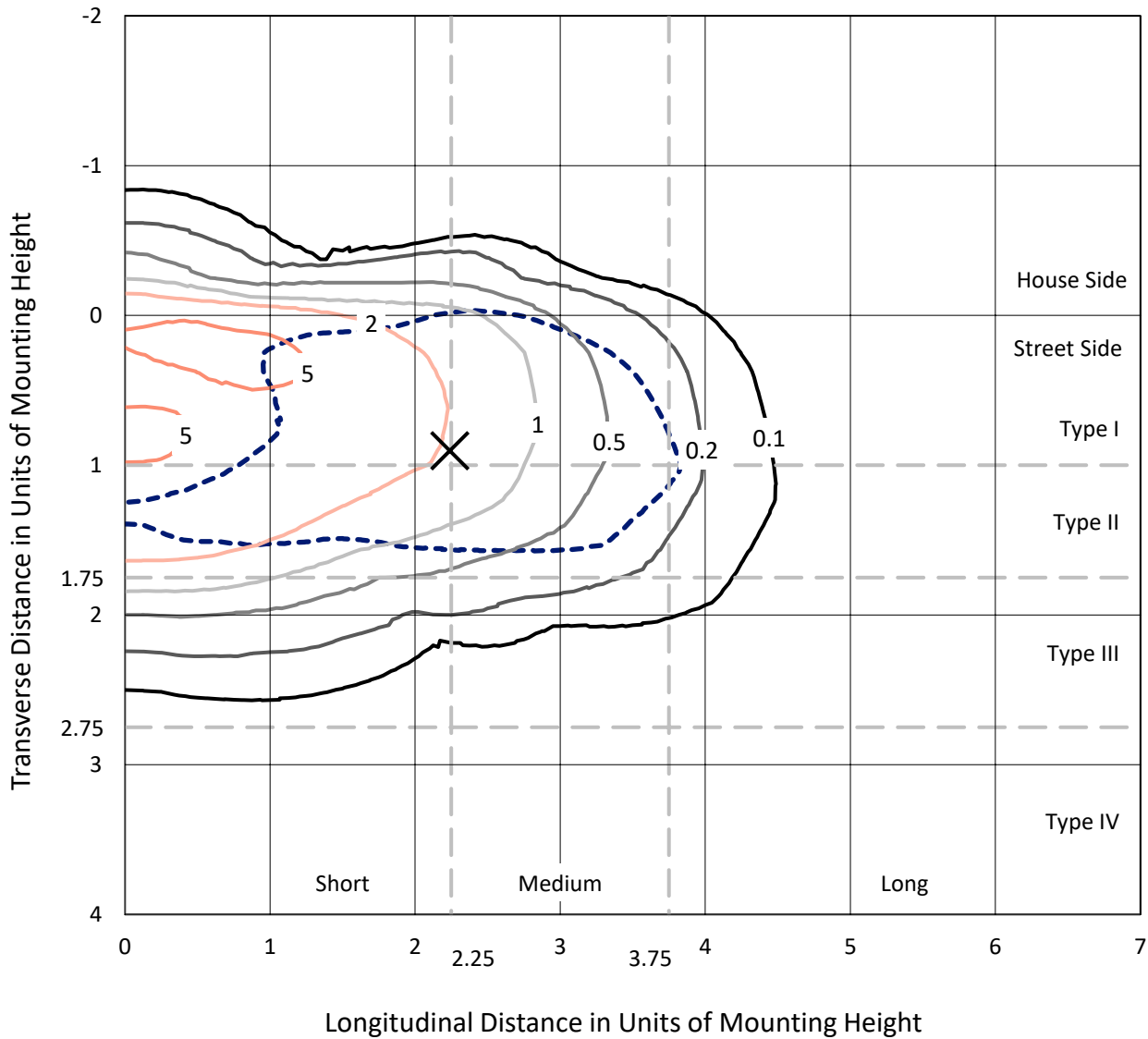
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639315
 CATALOG NUMBER: GWS-SA5B-750-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

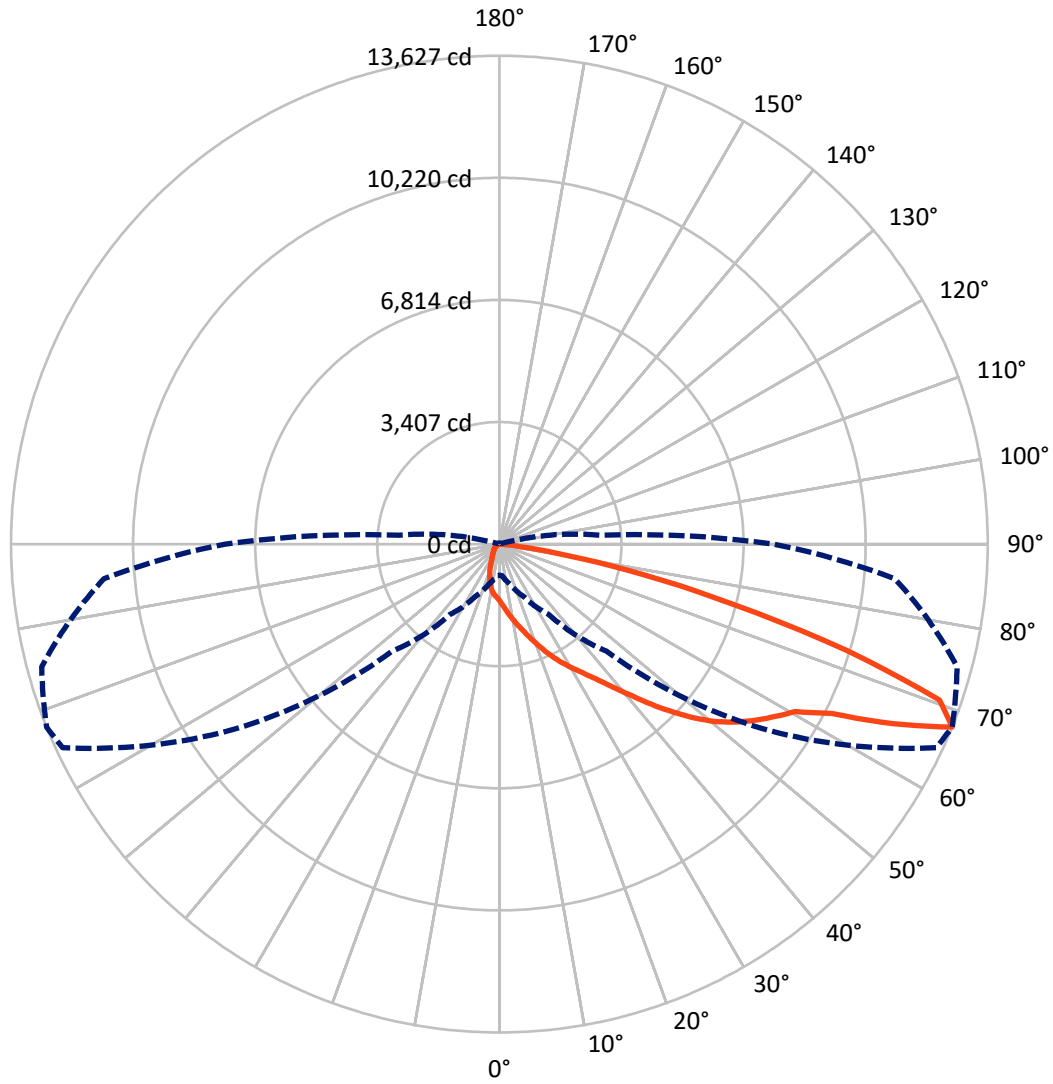
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P639315
CATALOG NUMBER: GWS-SA5B-750-U-T2-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639315
 CATALOG NUMBER: GWS-SA5B-750-U-T2-W-HSS

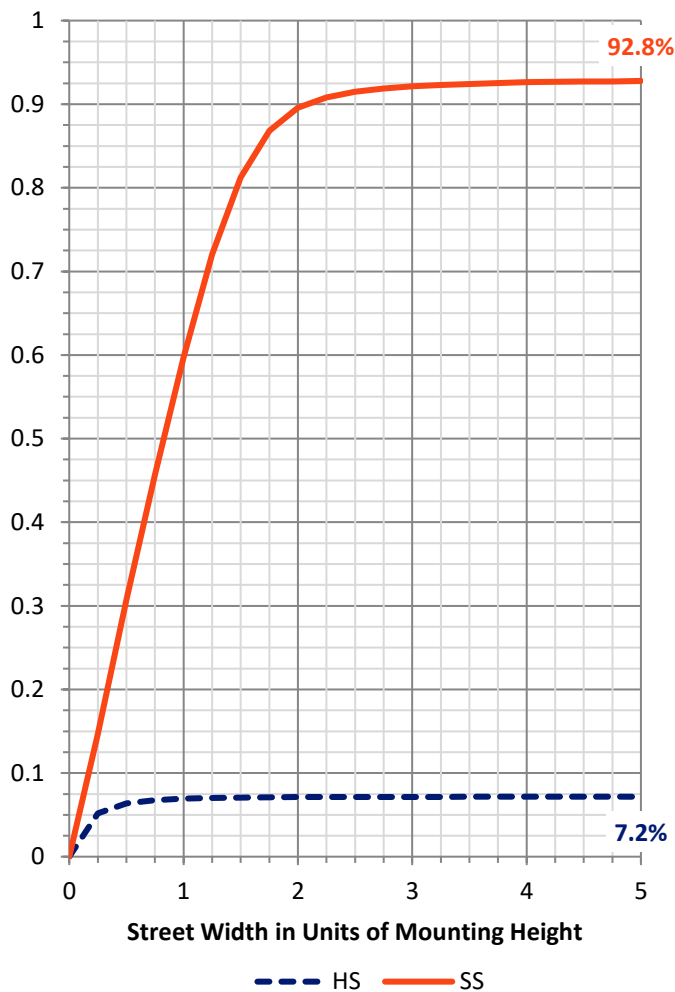
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	982.4	0.0	982.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12622.5	0.0	12622.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	13604.9	0.0	13604.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	1.1
10°-20°	443.4	3.3
20°-30°	762.0	5.6
30°-40°	1324.9	9.7
40°-50°	2311.8	17.0
50°-60°	3486.8	25.6
60°-70°	3496.4	25.7
70°-80°	1542.6	11.3
80°-90°	82.4	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°	13604.9	100.0
0°-180°	13604.9	100.0

Coefficient of Utilization



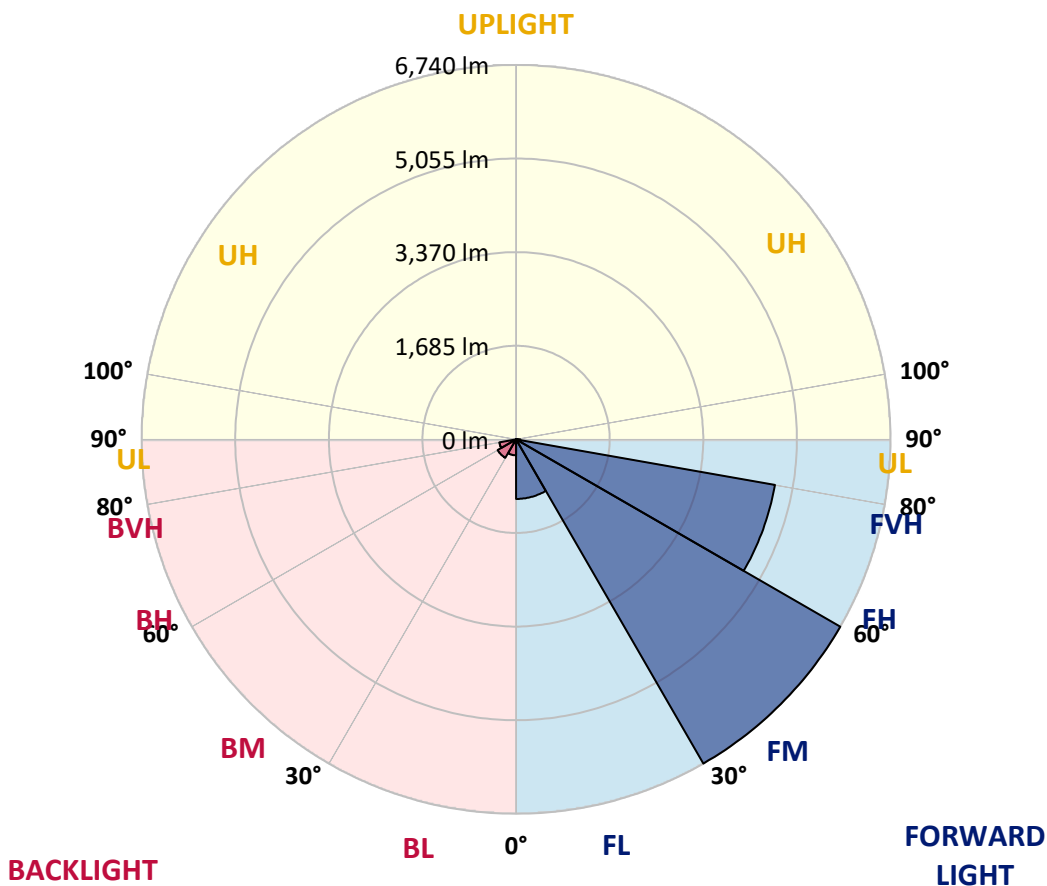
REPORT NUMBER: P639315

CATALOG NUMBER: GWS-SA5B-750-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°)	1072.5	7.9			
FM (30°-60°)	6739.8	49.5			
FH (60°-80°)	4732.4	34.8			G2/5000
FVH (80°-90°)	77.7	0.6			G1/100
BL (0°-30°)	287.4	2.1	B1/500		
BM (30°-60°)	383.8	2.8	B1/1000		
BH (60°-80°)	306.6	2.3	B1/500		G1/500
BVH (80°-90°)	4.7	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: P639315

CATALOG NUMBER: GWS-SA5B-750-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3
2.5°	1843.7	1855.4	1843.7	1846.3	1812.4	1796.8	1762.9	1716.1	1704.4	1674.4	1628.8
5°	2068.9	2079.3	2067.6	2065.0	2026.0	1997.3	1941.3	1860.6	1837.2	1778.6	1688.7
7.5°	2191.3	2197.8	2201.7	2208.2	2193.9	2170.5	2119.7	2019.4	1994.7	1899.7	1773.4
10°	2204.3	2209.5	2229.1	2268.1	2296.8	2311.1	2282.5	2190.0	2150.9	2058.5	1877.5
12.5°	2167.9	2175.7	2206.9	2272.0	2351.5	2424.4	2442.6	2361.9	2326.7	2208.2	1999.9
15°	2119.7	2126.2	2169.2	2257.7	2377.5	2511.6	2587.1	2552.0	2512.9	2389.2	2135.3
17.5°	2045.5	2054.6	2114.5	2234.3	2389.2	2580.6	2743.4	2755.1	2727.7	2593.6	2285.1
20°	2003.8	2010.3	2063.7	2187.4	2381.4	2631.4	2889.2	2999.9	2969.9	2829.3	2456.9
22.5°	2039.0	2044.2	2079.3	2175.7	2355.4	2660.0	3024.6	3244.7	3227.7	3081.9	2637.9
25°	2223.9	2240.8	2220.0	2236.9	2367.1	2675.7	3134.0	3489.4	3493.3	3346.2	2825.4
27.5°	2598.8	2576.7	2527.2	2442.6	2458.2	2717.3	3227.7	3719.9	3753.7	3604.0	2992.1
30°	2980.3	2967.3	2937.4	2805.9	2696.5	2809.8	3307.1	3955.6	4008.9	3857.9	3140.5
32.5°	3408.7	3421.7	3368.3	3210.8	3024.6	2997.3	3389.2	4179.5	4279.8	4145.7	3315.0
35°	3920.4	3924.3	3818.8	3644.4	3433.4	3307.1	3536.3	4426.9	4611.8	4512.8	3548.0
37.5°	4419.1	4442.5	4385.2	4110.5	3923.0	3692.5	3779.8	4744.6	5005.0	4965.9	3841.0
40°	4860.5	4896.9	4878.7	4613.1	4367.0	4173.0	4157.4	5117.0	5480.2	5524.5	4227.7
42.5°	5212.0	5235.4	5249.8	5061.0	4843.5	4734.2	4623.5	5549.2	6041.4	6222.4	4701.6
45°	5583.1	5590.9	5620.8	5493.3	5303.2	5312.3	5174.3	6074.0	6632.5	6995.8	5245.9
47.5°	6055.7	6081.8	6067.4	5933.3	5761.5	5864.3	5743.2	6614.3	7215.8	7821.3	5803.1
50°	6631.2	6658.6	6645.5	6489.3	6297.9	6340.9	6265.4	7139.0	7778.3	8599.9	6266.7
52.5°	6928.1	6950.2	7111.7	7182.0	7081.7	6808.3	6710.6	7715.8	8253.5	9240.5	6692.4
55°	6784.9	6800.5	7152.0	7448.9	7816.1	7542.6	7158.5	8161.1	8672.8	9740.5	7008.8
57.5°	6191.1	6275.8	6753.6	7256.2	8028.3	8267.9	7885.1	8645.5	9076.4	10088.1	7320.0
60°	4973.7	4969.8	5654.7	6557.0	7614.3	8467.1	8911.1	9300.4	9481.4	10355.0	7736.6
62.5°	2748.6	2773.3	3684.7	4873.5	6463.3	7951.5	9680.6	10431.8	10404.5	10821.1	8389.0
65°	1368.4	1417.9	1912.7	2791.5	4300.6	6571.3	9813.4	12158.3	12080.2	11918.8	9736.6
67.5°	868.5	888.0	1161.4	1622.3	2390.5	4223.8	8986.6	13446.0	13627.0	13220.8	11073.7
70°	562.5	595.0	807.3	1109.3	1442.6	2177.0	6583.0	12611.4	13026.8	13077.6	10240.4
72.5°	306.0	329.4	515.6	791.6	1041.6	1088.5	3697.8	9464.4	10132.4	11093.3	8011.4
75°	174.5	191.4	282.5	537.7	764.3	662.7	1639.3	6335.7	6761.4	7928.0	5740.6
77.5°	105.5	119.8	158.8	261.7	479.1	442.7	619.8	3856.6	4127.4	4730.3	3012.9
80°	48.2	57.3	100.3	144.5	261.7	209.6	237.0	1798.1	1856.7	1941.3	997.4
82.5°	22.1	26.0	45.6	85.9	148.4	121.1	91.1	415.3	584.6	553.4	253.9
85°	2.6	2.6	16.9	35.2	41.7	31.2	37.8	93.7	118.5	166.7	72.9
87.5°	0.0	0.0	1.3	1.3	2.6	3.9	7.8	11.7	16.9	27.3	18.2
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: P639315

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3
2.5°	1608.0	1571.5	1539.0	1490.8	1458.3	1421.8	1397.1	1367.1	1355.4	1346.3	1333.3
5°	1644.5	1585.9	1506.4	1417.9	1345.0	1276.0	1212.2	1170.5	1134.1	1128.9	1110.6
7.5°	1704.4	1617.1	1483.0	1338.5	1214.8	1100.2	1010.4	937.5	901.0	889.3	868.5
10°	1783.8	1664.0	1447.9	1226.5	1048.1	911.4	809.9	727.8	670.5	649.7	634.1
12.5°	1872.3	1707.0	1391.9	1088.5	885.4	729.1	600.2	513.0	476.5	463.5	451.8
15°	1973.9	1747.3	1303.3	950.5	726.5	536.4	445.3	407.5	391.9	388.0	384.1
17.5°	2071.5	1773.4	1197.9	807.3	558.6	416.6	373.7	359.4	355.5	351.5	348.9
20°	2182.2	1791.6	1074.2	671.8	433.6	352.8	332.0	321.6	313.8	306.0	304.7
22.5°	2295.5	1791.6	940.1	539.0	363.3	316.4	293.0	273.4	259.1	251.3	248.7
25°	2403.5	1766.9	807.3	431.0	320.3	281.2	251.3	229.2	209.6	200.5	197.9
27.5°	2480.4	1703.1	691.4	364.6	290.4	250.0	213.5	188.8	173.2	164.1	162.8
30°	2528.5	1608.0	584.6	325.5	264.3	217.4	181.0	160.1	148.4	141.9	139.3
32.5°	2565.0	1490.8	489.6	298.2	239.6	188.8	157.5	140.6	130.2	125.0	123.7
35°	2637.9	1380.1	419.3	273.4	213.5	165.4	138.0	125.0	117.2	110.7	109.4
37.5°	2739.5	1287.7	363.3	251.3	188.8	147.1	125.0	113.3	106.8	100.3	99.0
40°	2889.2	1229.1	321.6	229.2	166.7	132.8	114.6	104.2	95.0	88.5	87.2
42.5°	3119.7	1201.8	294.3	207.0	147.1	119.8	105.5	92.4	83.3	76.8	75.5
45°	3394.4	1216.1	270.8	184.9	134.1	110.7	93.7	80.7	71.6	65.1	63.8
47.5°	3688.6	1266.9	251.3	164.1	121.1	101.6	83.3	69.0	61.2	54.7	53.4
50°	3995.9	1350.2	234.4	144.5	110.7	91.1	71.6	59.9	52.1	46.9	45.6
52.5°	4262.8	1463.5	217.4	130.2	101.6	80.7	62.5	52.1	44.3	39.1	37.8
55°	4518.0	1570.2	204.4	117.2	91.1	70.3	54.7	44.3	37.8	32.6	31.2
57.5°	4795.4	1683.5	188.8	105.5	82.0	62.5	48.2	37.8	32.6	27.3	26.0
60°	5199.0	1851.5	165.4	96.3	71.6	54.7	41.7	33.9	28.6	22.1	20.8
62.5°	5781.0	2157.5	139.3	83.3	61.2	46.9	35.2	28.6	23.4	18.2	15.6
65°	6869.5	2678.3	114.6	69.0	49.5	39.1	29.9	23.4	18.2	13.0	11.7
67.5°	7653.3	2813.7	92.4	56.0	40.4	29.9	24.7	18.2	13.0	9.1	7.8
70°	6691.1	2020.7	71.6	45.6	33.9	23.4	19.5	14.3	9.1	6.5	5.2
72.5°	5041.4	1320.3	53.4	35.2	26.0	19.5	14.3	11.7	7.8	5.2	3.9
75°	3553.2	763.0	39.1	26.0	18.2	14.3	11.7	9.1	6.5	3.9	3.9
77.5°	1821.5	315.1	27.3	18.2	13.0	9.1	7.8	5.2	5.2	3.9	2.6
80°	553.4	104.2	15.6	11.7	9.1	6.5	3.9	3.9	3.9	2.6	1.3
82.5°	126.3	33.9	9.1	9.1	6.5	5.2	3.9	1.3	1.3	0.0	0.0
85°	32.6	10.4	7.8	6.5	6.5	5.2	2.6	1.3	0.0	0.0	0.0
87.5°	11.7	6.5	6.5	6.5	5.2	3.9	2.6	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)