

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: P639205

Luminaire Tested: GWS-SA5B-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639205
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-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: 13117.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

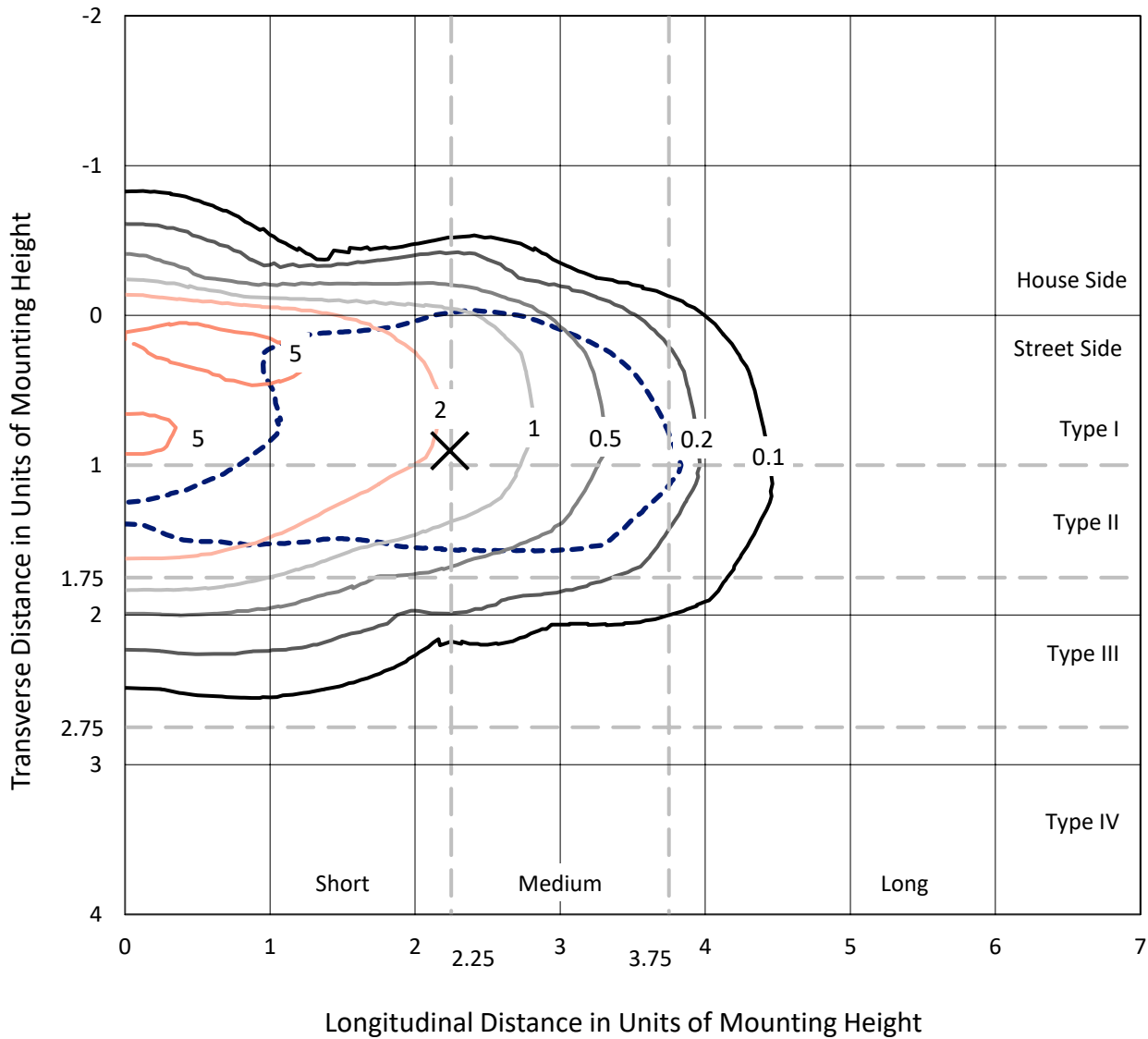
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

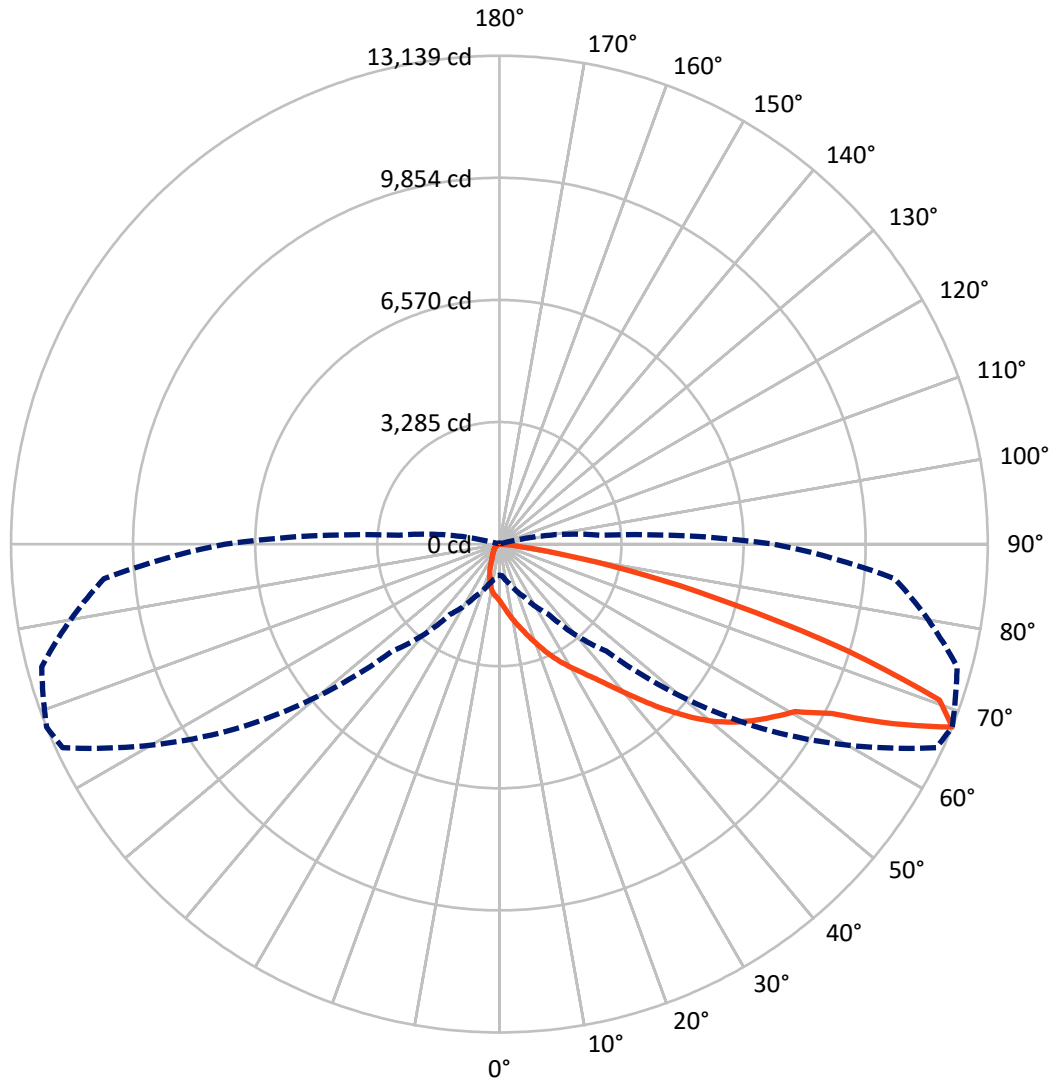
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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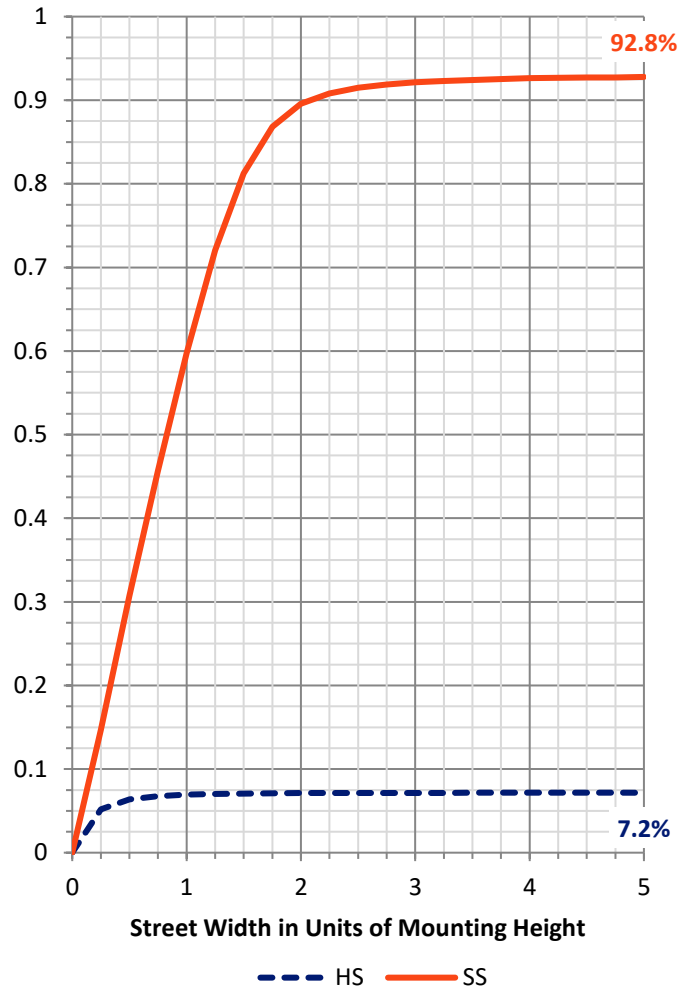
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.3	0.0	947.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12170.6	0.0	12170.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	13117.9	0.0	13117.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.1
10°-20°	427.6	3.3
20°-30°	734.8	5.6
30°-40°	1277.5	9.7
40°-50°	2229.1	17.0
50°-60°	3362.0	25.6
60°-70°	3371.2	25.7
70°-80°	1487.4	11.3
80°-90°	79.5	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°	13117.9	100.0
0°-180°	13117.9	100.0

Coefficient of Utilization



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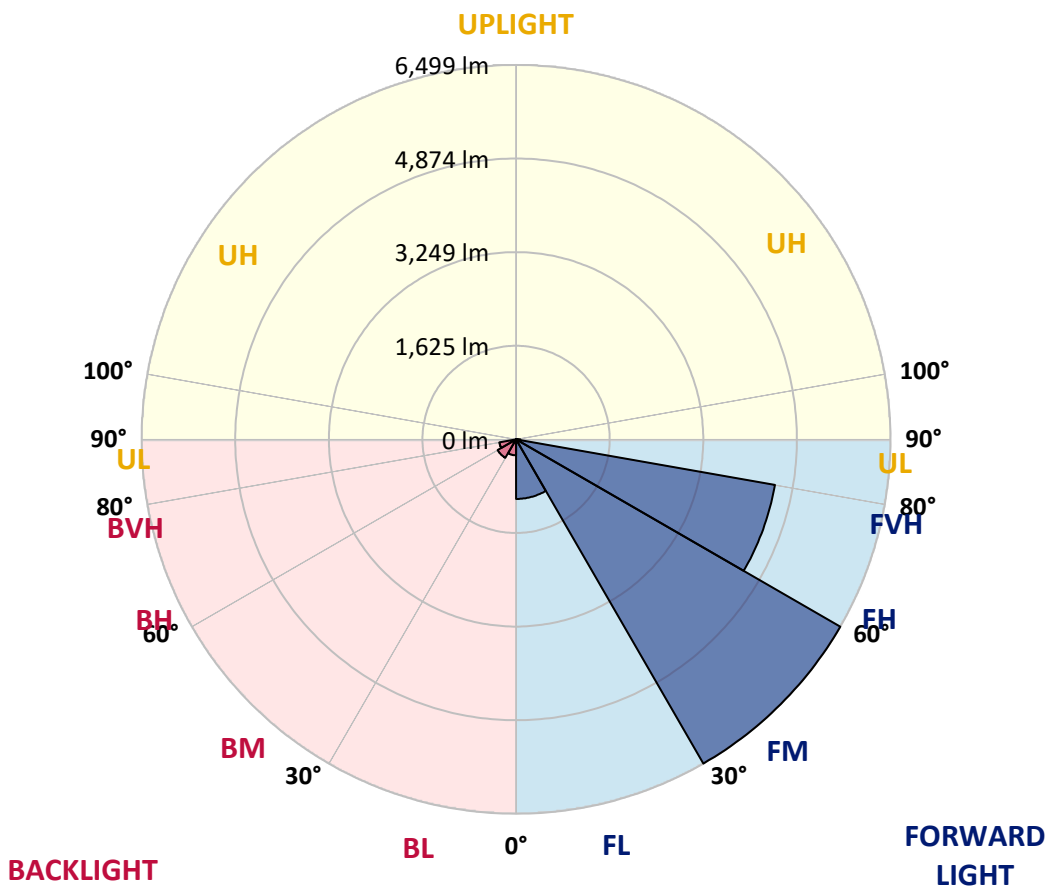
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.1	7.9			
FM (30°-60°)	6498.6	49.5			
FH (60°-80°)	4563.0	34.8			G2/5000
FVH (80°-90°)	75.0	0.6			G1/100
BL (0°-30°)	277.1	2.1	B1/500		
BM (30°-60°)	370.0	2.8	B1/1000		
BH (60°-80°)	295.6	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6
2.5°	1777.7	1789.0	1777.7	1780.2	1747.5	1732.5	1699.8	1654.6	1643.3	1614.5	1570.5
5°	1994.9	2004.9	1993.6	1991.1	1953.4	1925.8	1871.8	1794.0	1771.4	1714.9	1628.3
7.5°	2112.9	2119.1	2122.9	2129.2	2115.4	2092.8	2043.8	1947.2	1923.3	1831.7	1709.9
10°	2125.4	2130.4	2149.3	2186.9	2214.6	2228.4	2200.8	2111.6	2074.0	1984.8	1810.3
12.5°	2090.3	2097.8	2127.9	2190.7	2267.3	2337.6	2355.2	2277.3	2243.4	2129.2	1928.3
15°	2043.8	2050.1	2091.5	2176.9	2292.4	2421.7	2494.5	2460.6	2423.0	2303.7	2058.9
17.5°	1972.3	1981.1	2038.8	2154.3	2303.7	2488.2	2645.2	2656.5	2630.1	2500.8	2203.3
20°	1932.1	1938.4	1989.8	2109.1	2296.2	2537.2	2785.8	2892.5	2863.6	2728.0	2369.0
22.5°	1966.0	1971.0	2004.9	2097.8	2271.1	2564.8	2916.3	3128.5	3112.2	2971.6	2543.5
25°	2144.3	2160.6	2140.5	2156.8	2282.4	2579.9	3021.8	3364.5	3368.3	3226.4	2724.3
27.5°	2505.8	2484.5	2436.8	2355.2	2370.2	2620.1	3112.2	3586.7	3619.4	3475.0	2885.0
30°	2873.7	2861.1	2832.2	2705.4	2600.0	2709.2	3188.8	3814.0	3865.4	3719.8	3028.1
32.5°	3286.7	3299.2	3247.8	3095.9	2916.3	2890.0	3267.9	4029.9	4126.6	3997.3	3196.3
35°	3780.1	3783.8	3682.1	3513.9	3310.5	3188.8	3409.7	4268.4	4446.7	4351.3	3421.0
37.5°	4260.9	4283.5	4228.3	3963.4	3782.6	3560.4	3644.5	4574.7	4825.8	4788.2	3703.5
40°	4686.5	4721.6	4704.1	4448.0	4210.7	4023.6	4008.6	4933.8	5284.1	5326.7	4076.3
42.5°	5025.4	5048.0	5061.9	4879.8	4670.2	4564.7	4458.0	5350.6	5825.1	5999.6	4533.3
45°	5383.2	5390.8	5419.6	5296.6	5113.3	5122.1	4989.0	5856.5	6395.1	6745.4	5058.1
47.5°	5839.0	5864.1	5850.3	5720.9	5555.2	5654.4	5537.7	6377.5	6957.5	7541.3	5595.4
50°	6393.9	6420.2	6407.7	6257.0	6072.5	6113.9	6041.1	6883.5	7499.9	8292.0	6042.3
52.5°	6680.1	6701.4	6857.1	6924.9	6828.2	6564.6	6470.4	7439.6	7958.1	8909.7	6452.9
55°	6542.0	6557.1	6896.0	7182.3	7536.3	7272.6	6902.3	7869.0	8362.3	9391.8	6757.9
57.5°	5969.5	6051.1	6511.9	6996.5	7740.9	7971.9	7602.8	8336.0	8751.5	9727.0	7058.0
60°	4795.7	4791.9	5452.3	6322.3	7341.7	8164.0	8592.1	8967.5	9142.0	9984.4	7459.7
62.5°	2650.2	2674.0	3552.8	4699.0	6231.9	7666.8	9334.0	10058.4	10032.1	10433.8	8088.7
65°	1319.4	1367.2	1844.2	2691.6	4146.7	6336.1	9462.1	11723.1	11647.8	11492.1	9388.0
67.5°	837.4	856.2	1119.8	1564.3	2305.0	4072.6	8664.9	12964.7	13139.2	12747.5	10677.3
70°	542.3	573.7	778.4	1069.6	1391.0	2099.1	6347.4	12160.0	12560.5	12609.4	9873.9
72.5°	295.0	317.6	497.1	763.3	1004.3	1049.5	3565.4	9125.6	9769.7	10696.2	7724.6
75°	168.2	184.5	272.4	518.5	736.9	639.0	1580.6	6108.9	6519.4	7644.2	5535.1
77.5°	101.7	115.5	153.2	252.3	462.0	426.8	597.6	3718.6	3979.7	4560.9	2905.0
80°	46.5	55.2	96.7	139.4	252.3	202.1	228.5	1733.7	1790.2	1871.8	961.7
82.5°	21.3	25.1	43.9	82.9	143.1	116.8	87.9	400.5	563.7	533.6	244.8
85°	2.5	2.5	16.3	33.9	40.2	30.1	36.4	90.4	114.2	160.7	70.3
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	7.5	11.3	16.3	26.4	17.6
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°	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6
2.5°	1550.4	1515.3	1483.9	1437.5	1406.1	1370.9	1347.1	1318.2	1306.9	1298.1	1285.5
5°	1585.6	1529.1	1452.5	1367.2	1296.8	1230.3	1168.8	1128.6	1093.5	1088.4	1070.9
7.5°	1643.3	1559.2	1429.9	1290.6	1171.3	1060.8	974.2	903.9	868.8	857.5	837.4
10°	1719.9	1604.4	1396.0	1182.6	1010.6	878.8	780.9	701.8	646.5	626.5	611.4
12.5°	1805.3	1645.9	1342.0	1049.5	853.7	703.0	578.7	494.6	459.5	446.9	435.6
15°	1903.2	1684.8	1256.7	916.5	700.5	517.2	429.4	392.9	377.9	374.1	370.3
17.5°	1997.4	1709.9	1155.0	778.4	538.6	401.7	360.3	346.5	342.7	339.0	336.5
20°	2104.1	1727.5	1035.7	647.8	418.1	340.2	320.1	310.1	302.6	295.0	293.8
22.5°	2213.3	1727.5	906.4	519.7	350.3	305.1	282.5	263.6	249.8	242.3	239.8
25°	2317.5	1703.6	778.4	415.5	308.8	271.2	242.3	221.0	202.1	193.3	190.8
27.5°	2391.6	1642.1	666.6	351.5	280.0	241.0	205.9	182.0	167.0	158.2	156.9
30°	2438.0	1550.4	563.7	313.9	254.9	209.7	174.5	154.4	143.1	136.8	134.3
32.5°	2473.2	1437.5	472.0	287.5	231.0	182.0	151.9	135.6	125.5	120.5	119.3
35°	2543.5	1330.7	404.2	263.6	205.9	159.4	133.1	120.5	113.0	106.7	105.5
37.5°	2641.4	1241.6	350.3	242.3	182.0	141.9	120.5	109.2	102.9	96.7	95.4
40°	2785.8	1185.1	310.1	221.0	160.7	128.1	110.5	100.4	91.6	85.4	84.1
42.5°	3008.0	1158.8	283.7	199.6	141.9	115.5	101.7	89.1	80.3	74.1	72.8
45°	3272.9	1172.6	261.1	178.3	129.3	106.7	90.4	77.8	69.0	62.8	61.5
47.5°	3556.6	1221.5	242.3	158.2	116.8	97.9	80.3	66.5	59.0	52.7	51.5
50°	3852.9	1301.9	226.0	139.4	106.7	87.9	69.0	57.7	50.2	45.2	43.9
52.5°	4110.2	1411.1	209.7	125.5	97.9	77.8	60.3	50.2	42.7	37.7	36.4
55°	4356.3	1514.0	197.1	113.0	87.9	67.8	52.7	42.7	36.4	31.4	30.1
57.5°	4623.7	1623.3	182.0	101.7	79.1	60.3	46.5	36.4	31.4	26.4	25.1
60°	5012.9	1785.2	159.4	92.9	69.0	52.7	40.2	32.6	27.6	21.3	20.1
62.5°	5574.1	2080.2	134.3	80.3	59.0	45.2	33.9	27.6	22.6	17.6	15.1
65°	6623.6	2582.4	110.5	66.5	47.7	37.7	28.9	22.6	17.6	12.6	11.3
67.5°	7379.4	2713.0	89.1	54.0	38.9	28.9	23.9	17.6	12.6	8.8	7.5
70°	6451.6	1948.4	69.0	43.9	32.6	22.6	18.8	13.8	8.8	6.3	5.0
72.5°	4861.0	1273.0	51.5	33.9	25.1	18.8	13.8	11.3	7.5	5.0	3.8
75°	3426.0	735.7	37.7	25.1	17.6	13.8	11.3	8.8	6.3	3.8	3.8
77.5°	1756.3	303.8	26.4	17.6	12.6	8.8	7.5	5.0	5.0	3.8	2.5
80°	533.6	100.4	15.1	11.3	8.8	6.3	3.8	3.8	3.8	2.5	1.3
82.5°	121.8	32.6	8.8	8.8	6.3	5.0	3.8	1.3	1.3	0.0	0.0
85°	31.4	10.0	7.5	6.3	6.3	5.0	2.5	1.3	0.0	0.0	0.0
87.5°	11.3	6.3	6.3	6.3	5.0	3.8	2.5	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)