

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: P631784

Luminaire Tested: GWS-SA2B-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631784
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-SA2B-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5489.4 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

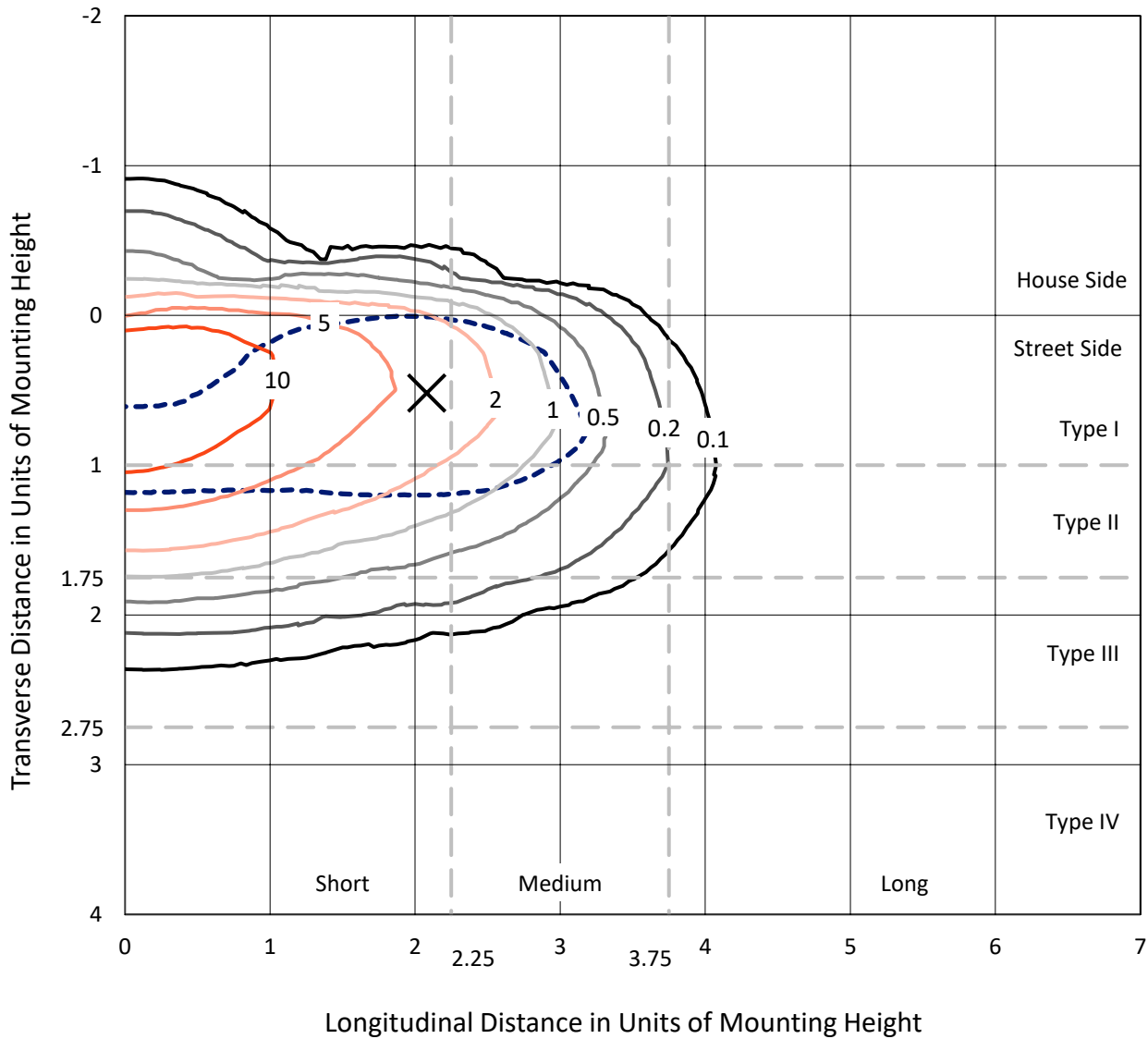
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631784
 CATALOG NUMBER: GWS-SA2B-735-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

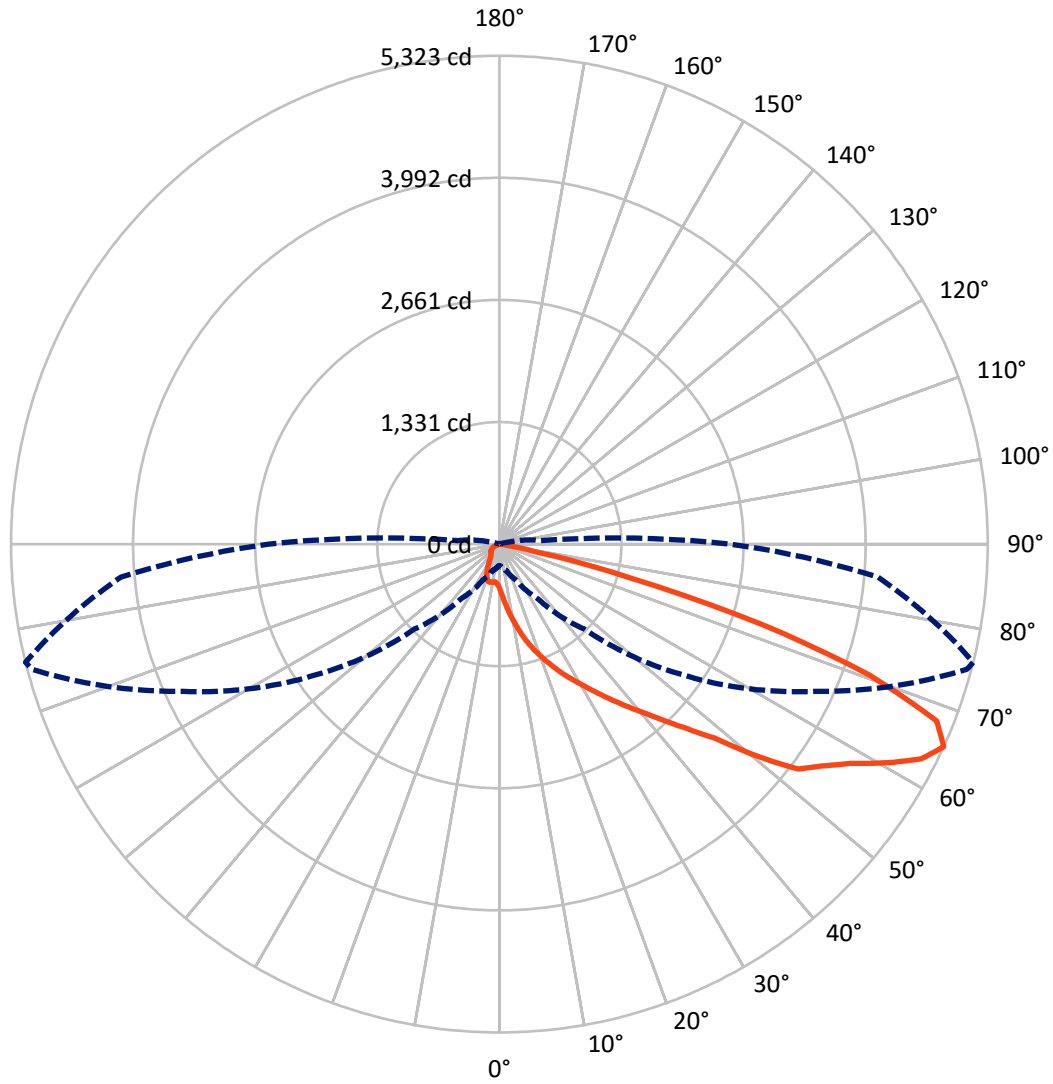
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

REPORT NUMBER: P631784
CATALOG NUMBER: GWS-SA2B-735-U-T2R-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P631784

CATALOG NUMBER: GWS-SA2B-735-U-T2R-W-HSS

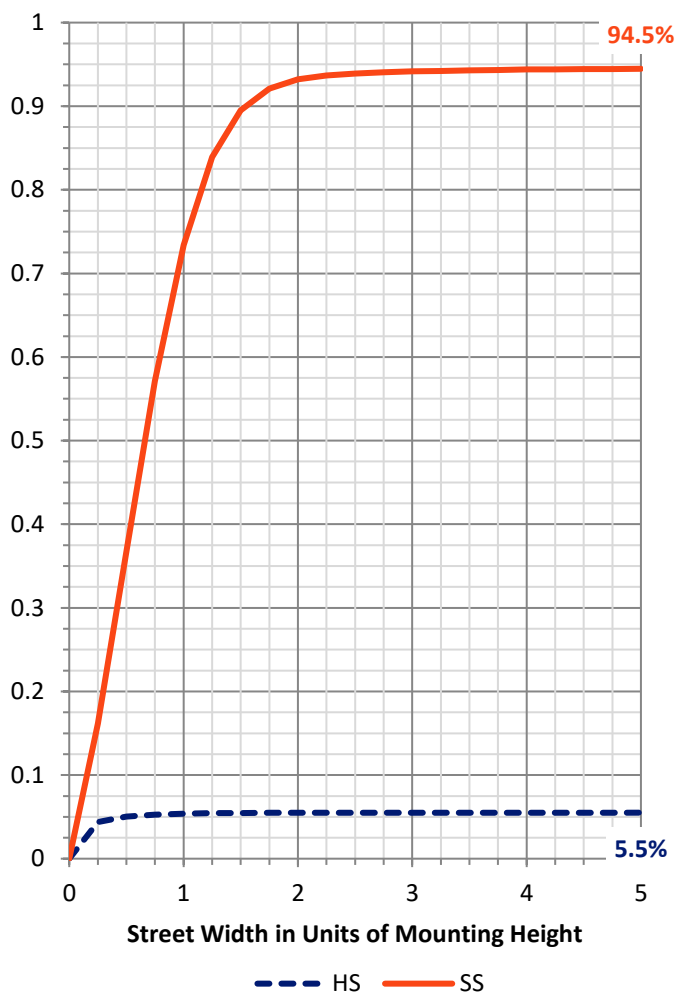
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.5	0.0	303.5
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	5185.9	0.0	5185.9
	% Fixture	94.5	0.0	94.5
Total	Lumens	5489.4	0.0	5489.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	1.1
10°-20°	224.4	4.1
20°-30°	457.7	8.3
30°-40°	814.1	14.8
40°-50°	1203.4	21.9
50°-60°	1377.8	25.1
60°-70°	1051.2	19.1
70°-80°	294.5	5.4
80°-90°	7.4	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°	5489.4	100.0
0°-180°	5489.4	100.0

Coefficient of Utilization



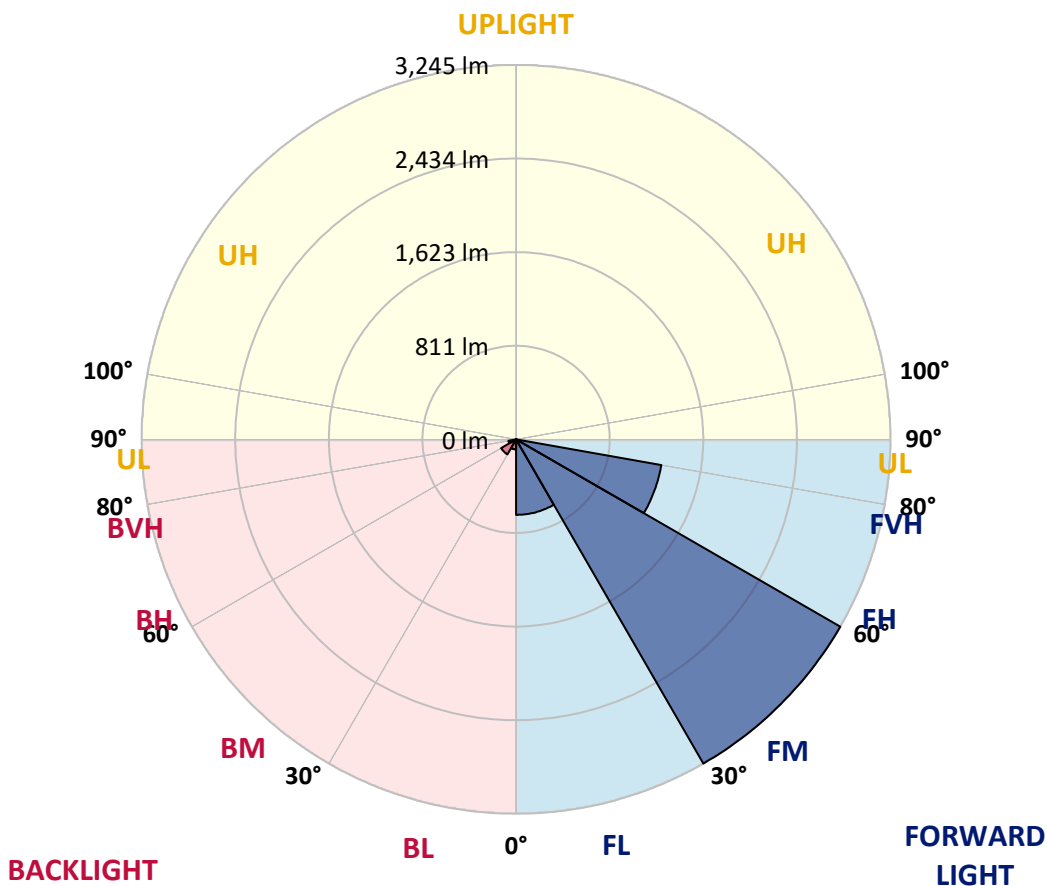
REPORT NUMBER: P631784

CATALOG NUMBER: GWS-SA2B-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°)	654.6	11.9			
FM (30°-60°)	3245.4	59.1			
FH (60°-80°)	1278.9	23.3			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	86.6	1.6	B0/110		
BM (30°-60°)	149.8	2.7	B0/220		
BH (60°-80°)	66.7	1.2	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Short





REPORT NUMBER: P631784

CATALOG NUMBER: GWS-SA2B-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
2.5°	749.0	760.2	751.5	736.8	708.5	681.2	646.1	597.8	559.2	554.3	518.2
5°	1011.5	1010.6	991.5	972.5	942.7	895.9	825.1	735.4	649.0	641.7	560.7
7.5°	1167.7	1169.2	1158.4	1143.8	1114.5	1066.2	992.5	884.2	757.8	743.2	618.7
10°	1299.0	1298.5	1290.7	1283.8	1257.5	1225.3	1146.2	1027.2	874.9	852.0	683.6
12.5°	1397.5	1400.9	1404.8	1411.7	1400.5	1368.7	1294.1	1164.3	993.5	968.1	757.8
15°	1475.6	1476.6	1491.2	1517.6	1526.8	1510.2	1442.4	1297.0	1110.6	1088.6	843.2
17.5°	1499.0	1501.0	1525.9	1574.2	1623.0	1632.2	1581.0	1430.7	1225.8	1202.3	926.2
20°	1548.3	1552.7	1571.2	1613.7	1675.2	1725.0	1704.9	1565.9	1340.9	1310.2	1011.1
22.5°	1703.5	1705.9	1699.6	1704.9	1736.7	1794.2	1806.4	1696.7	1459.0	1426.3	1102.8
25°	1970.4	1971.4	1927.0	1885.0	1861.1	1871.8	1898.7	1817.2	1576.1	1543.9	1188.2
27.5°	2247.6	2251.0	2197.8	2126.5	2041.2	1992.4	1984.5	1927.5	1694.2	1658.6	1272.6
30°	2508.6	2508.6	2452.5	2365.6	2251.5	2156.3	2100.2	2038.7	1820.6	1781.6	1359.0
32.5°	2743.3	2741.4	2669.7	2575.5	2462.8	2358.3	2240.2	2154.8	1961.1	1917.7	1458.5
35°	2937.1	2932.2	2850.7	2760.4	2639.9	2562.3	2430.5	2279.8	2113.4	2069.9	1561.0
37.5°	3083.4	3078.1	3003.4	2907.8	2796.0	2745.8	2635.5	2429.6	2273.9	2234.4	1674.7
40°	3163.0	3152.2	3100.5	3029.3	2935.6	2891.7	2845.8	2615.5	2462.8	2413.5	1808.9
42.5°	3186.4	3173.7	3139.6	3106.4	3049.8	3015.1	3064.4	2825.3	2670.1	2627.7	1962.1
45°	3117.1	3109.8	3106.9	3130.8	3141.0	3150.8	3272.3	3057.6	2899.0	2866.8	2154.8
47.5°	2950.2	2948.3	2974.1	3073.7	3182.0	3285.0	3498.2	3344.0	3195.7	3161.0	2424.2
50°	2641.8	2661.8	2734.1	2908.8	3125.4	3361.1	3709.5	3741.2	3675.8	3625.1	2775.5
52.5°	2159.7	2198.3	2360.3	2625.7	2937.1	3339.6	3807.1	4059.4	4126.2	4073.5	3027.3
55°	1694.7	1730.8	1875.2	2211.9	2627.2	3176.2	3811.5	4169.2	4315.1	4266.3	3197.6
57.5°	1262.4	1295.5	1426.8	1748.9	2205.6	2854.6	3707.1	4230.2	4539.0	4507.8	3466.5
60°	825.1	857.8	976.4	1258.0	1710.8	2386.1	3449.9	4217.5	4844.0	4841.1	3796.8
62.5°	457.7	483.6	569.5	789.0	1194.0	1847.9	3045.9	4090.1	5139.2	5157.8	4069.1
65°	234.2	250.8	303.0	433.8	722.7	1310.2	2514.5	3798.3	5275.9	5322.7	4140.9
67.5°	153.2	158.6	171.3	225.4	387.0	824.2	1892.3	3330.4	5083.6	5138.3	3900.3
70°	124.4	128.8	136.1	150.3	199.6	437.7	1242.8	2659.9	4247.7	4284.8	3105.9
72.5°	91.2	97.1	111.3	120.5	143.9	240.1	646.6	1745.9	2917.0	2982.4	1951.9
75°	67.3	70.8	82.5	95.2	117.6	151.8	247.4	917.9	1506.3	1468.3	819.8
77.5°	40.5	42.9	52.7	61.0	83.9	94.7	86.4	339.1	458.2	430.9	198.1
80°	20.0	22.4	34.6	45.9	53.7	38.1	36.1	94.7	102.0	102.0	49.8
82.5°	6.8	8.8	18.5	30.3	26.4	14.6	17.1	24.4	27.3	28.8	14.6
85°	0.0	0.0	4.4	8.8	3.9	2.0	4.4	5.4	6.8	7.3	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.0
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: P631784
 CATALOG NUMBER: GWS-SA2B-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
2.5°	498.7	475.8	441.1	409.9	386.0	363.5	346.5	332.8	330.4	322.5	323.5
5°	521.1	479.7	415.7	366.5	331.8	308.4	288.9	274.2	267.9	261.5	256.7
7.5°	555.8	495.8	406.0	346.0	305.5	269.4	239.1	214.7	203.0	195.7	190.8
10°	598.2	518.2	406.5	333.8	273.7	218.6	177.1	150.3	137.6	133.7	133.2
12.5°	649.0	546.5	410.4	313.8	227.9	162.5	131.3	119.1	115.2	111.7	111.7
15°	702.7	578.2	410.4	277.2	173.7	126.9	113.7	105.9	101.0	99.1	98.1
17.5°	759.3	608.0	400.6	226.9	133.2	111.7	101.0	93.7	89.8	86.9	85.9
20°	819.8	636.3	376.2	173.7	114.2	100.0	89.8	82.5	78.6	75.6	75.6
22.5°	881.3	662.7	336.7	133.7	101.0	88.8	79.1	72.2	68.3	65.4	65.4
25°	938.4	680.2	285.9	110.3	91.2	79.1	70.3	63.4	59.0	57.1	56.1
27.5°	991.5	691.4	229.8	97.1	82.0	70.8	61.5	55.1	51.7	50.3	49.3
30°	1046.7	694.4	175.7	88.3	74.2	62.5	53.7	48.8	45.9	43.9	43.9
32.5°	1100.4	691.0	134.2	81.0	67.3	55.1	47.8	43.4	41.0	39.5	39.0
35°	1155.0	675.3	108.8	74.7	60.5	48.3	42.5	39.0	37.6	35.6	35.6
37.5°	1214.5	654.4	94.7	68.3	53.7	43.4	38.1	35.6	33.7	32.2	31.7
40°	1288.7	630.0	86.9	62.9	47.3	39.0	34.2	31.7	30.3	28.8	28.3
42.5°	1376.5	606.1	83.0	57.1	42.5	34.6	30.7	27.8	26.4	24.4	23.9
45°	1501.0	600.7	78.6	50.7	38.1	31.2	26.8	23.9	22.0	20.5	20.0
47.5°	1701.0	615.8	71.2	43.9	33.7	27.3	22.9	20.5	18.1	16.6	15.6
50°	1899.6	611.9	63.9	38.1	29.8	23.4	19.5	17.1	14.6	13.2	12.7
52.5°	2008.0	593.4	57.1	33.7	25.9	20.0	16.6	13.7	12.2	10.7	10.2
55°	2106.1	586.0	50.3	29.3	22.0	17.6	13.7	11.2	10.2	8.8	8.3
57.5°	2298.3	603.1	44.4	25.4	19.0	15.1	11.7	9.3	8.3	6.8	6.3
60°	2499.4	605.1	38.1	22.0	16.6	12.7	9.3	7.3	6.3	4.9	4.4
62.5°	2604.3	555.8	31.2	18.5	13.7	10.7	7.8	5.9	4.9	2.9	2.9
65°	2516.4	449.4	26.4	15.1	10.7	8.3	5.9	4.4	2.9	1.5	0.5
67.5°	2227.1	319.6	22.0	12.2	7.8	5.9	4.4	2.9	0.5	0.0	0.0
70°	1630.8	182.5	17.1	8.8	5.9	3.9	2.9	1.5	0.0	0.0	0.0
72.5°	1002.3	97.6	12.7	5.9	4.4	2.9	2.4	1.0	0.0	0.0	0.0
75°	380.1	46.8	7.8	3.9	3.4	2.4	1.5	0.5	0.0	0.0	0.0
77.5°	103.0	22.9	4.4	2.9	2.4	1.5	1.0	0.0	0.0	0.0	0.0
80°	26.8	10.7	2.9	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	4.9	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
85°	3.9	2.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.5	0.5	0.5	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)