

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P953644

Luminaire Tested: **GALN-SB7A-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23320 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

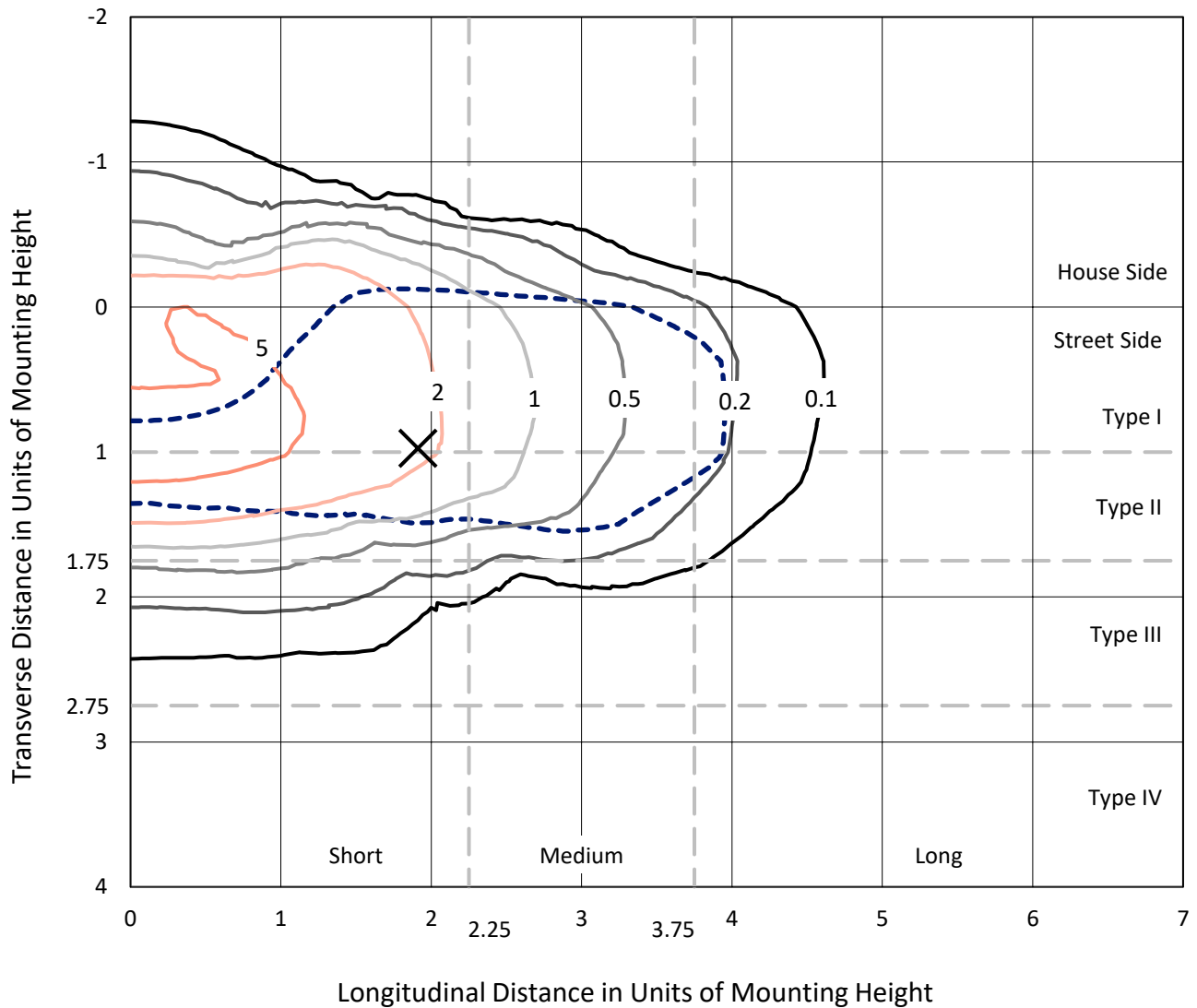
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

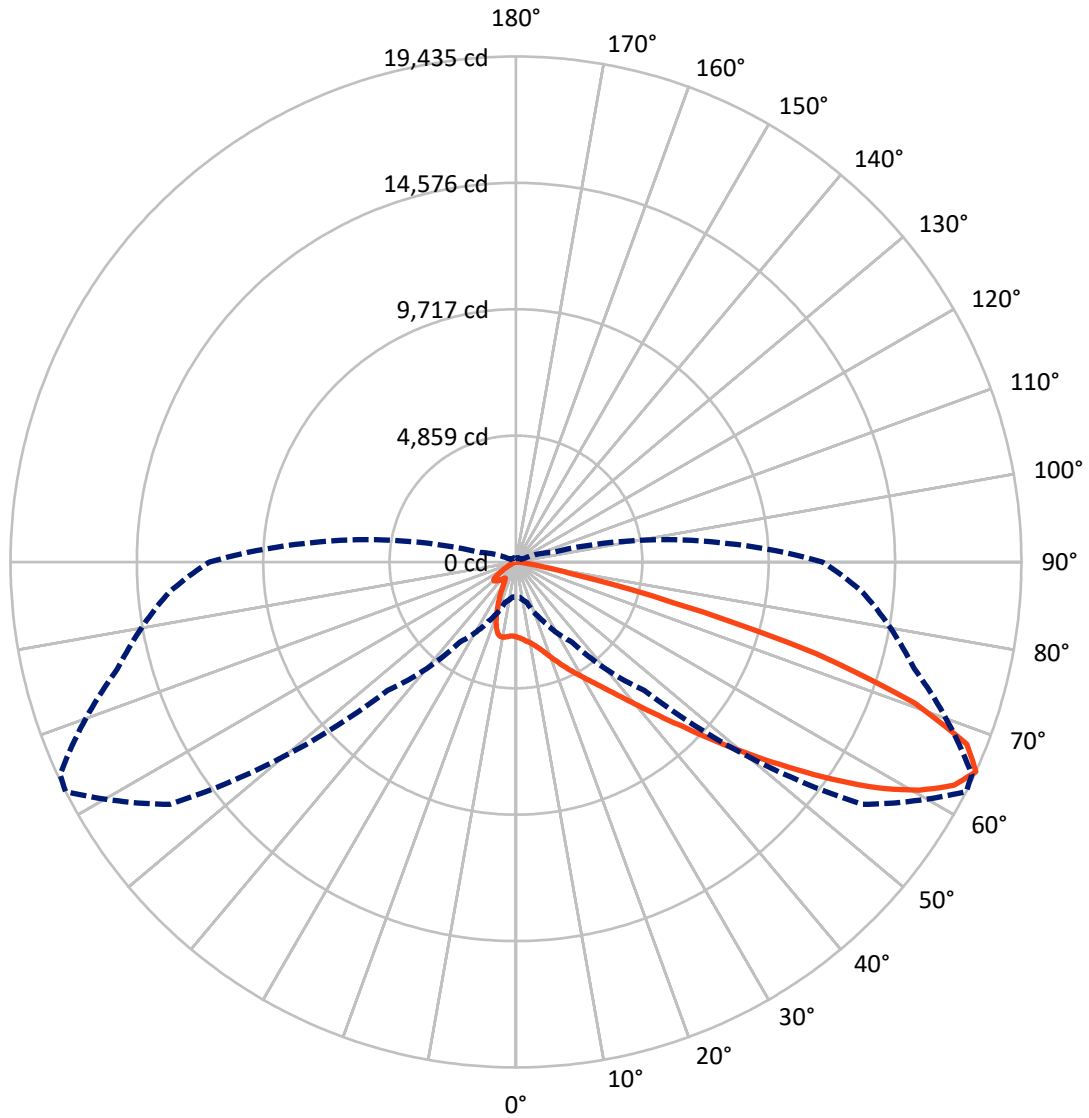
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3427.9	0.0	3427.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19892.1	0.0	19892.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	23320.0	0.0	23320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	1.2
10°-20°	752.4	3.2
20°-30°	1310.1	5.6
30°-40°	2361.4	10.1
40°-50°	4683.4	20.1
50°-60°	6379.5	27.4
60°-70°	5092.1	21.8
70°-80°	2304.3	9.9
80°-90°	165.6	0.7
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°	23320.0	100.0
0°-180°	23320.0	100.0

Coefficient of Utilization



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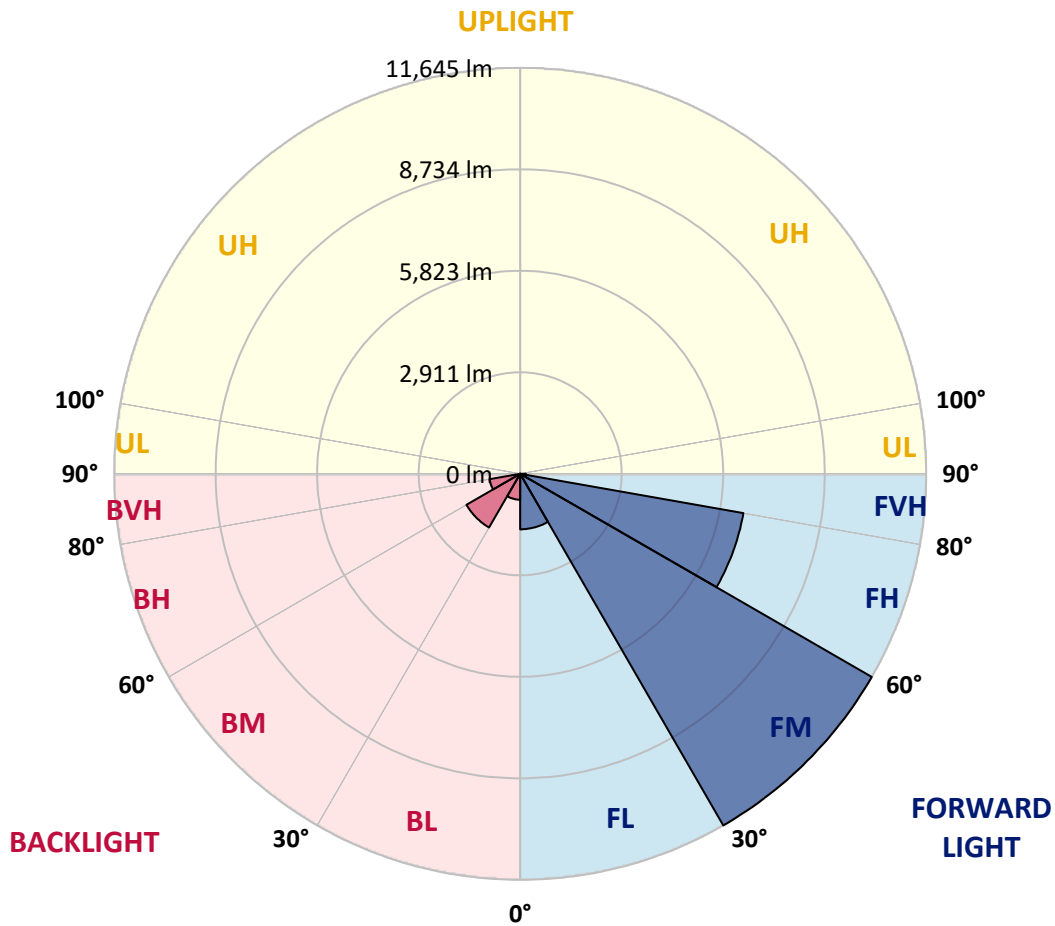
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1591.9	6.8			
FM (30°-60°)	11645.4	49.9			
FH (60°-80°)	6501.5	27.9			G3/7500
FVH (80°-90°)	153.3	0.7			G2/225
BL (0°-30°)	741.8	3.2	B2/1000		
BM (30°-60°)	1778.8	7.6	B2/2500		
BH (60°-80°)	894.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1
2.5°	2945.5	2937.5	2948.7	2943.9	2940.7	2934.3	2931.1	2927.9	2921.4	2916.6
5°	2953.5	2948.7	2959.9	2969.6	2979.2	2988.8	2993.6	3000.1	2993.6	2980.8
7.5°	2886.2	2882.9	2907.0	2935.9	2979.2	3016.1	3056.2	3078.7	3080.3	3075.5
10°	2881.3	2873.3	2897.4	2932.7	2988.8	3054.6	3125.2	3173.3	3179.7	3200.6
12.5°	2956.7	2948.7	2982.4	3020.9	3078.7	3147.7	3234.3	3301.7	3311.3	3340.2
15°	3083.5	3072.2	3110.8	3160.5	3234.3	3312.9	3404.3	3465.3	3473.3	3508.6
17.5°	3231.1	3219.8	3264.8	3317.7	3397.9	3505.4	3611.3	3678.7	3688.3	3710.8
20°	3420.4	3405.9	3441.2	3489.4	3574.4	3702.7	3829.5	3925.7	3924.1	3924.1
22.5°	3640.2	3617.7	3648.2	3686.7	3766.9	3922.5	4091.0	4204.9	4204.9	4160.0
25°	3876.0	3853.5	3887.2	3922.5	3993.1	4169.6	4366.9	4508.1	4514.5	4437.5
27.5°	4171.2	4142.3	4168.0	4209.7	4251.4	4431.1	4665.3	4829.0	4832.2	4713.5
30°	4739.1	4657.3	4577.1	4532.2	4551.4	4729.5	4979.8	5161.1	5177.1	5013.5
32.5°	5778.7	5762.7	5480.3	5111.3	4918.8	5050.4	5331.1	5549.3	5558.9	5348.8
35°	7394.3	7375.0	6921.0	6218.3	5591.0	5480.3	5757.9	6016.2	6009.7	5772.3
37.5°	9322.6	9305.0	8706.6	7766.5	6750.9	6130.1	6308.1	6579.3	6619.4	6308.1
40°	10970.3	10904.5	10525.9	9619.4	8291.1	7208.2	7091.0	7270.7	7312.4	6943.4
42.5°	12218.4	12162.3	11969.7	11403.4	10155.3	8802.8	8013.5	8082.5	8129.0	7686.2
45°	12864.9	12852.1	12929.1	12876.2	12054.8	10760.1	9332.3	9045.1	9062.7	8509.2
47.5°	12956.4	12950.0	13301.3	13798.7	13688.0	12967.6	11024.8	10245.1	10182.5	9438.1
50°	12417.3	12404.5	13078.3	14010.4	14778.9	14822.2	12946.8	11597.5	11459.6	10399.1
52.5°	10695.9	10692.7	11799.7	13351.1	15162.3	16445.8	14846.3	13083.1	12852.1	11416.3
55°	8230.1	8289.5	9558.5	11392.2	14462.8	17227.1	16551.6	14732.4	14377.8	12439.8
57.5°	5830.1	5916.7	7171.3	8804.4	12293.8	16765.0	17705.1	16384.8	16003.0	13460.1
60°	3131.6	3208.6	4464.8	6414.0	9146.2	15042.0	18313.2	17819.0	17458.1	14429.1
62.5°	1865.8	1891.5	2411.3	4140.7	6186.2	11491.7	18054.9	18911.6	18614.8	15242.5
65°	1339.6	1344.4	1605.9	2528.4	3755.7	6981.9	16243.6	19434.6	19343.1	15855.4
67.5°	1127.8	1124.6	1233.7	1679.7	2558.9	3497.4	12449.4	18695.0	19083.2	16243.6
70°	967.4	972.2	1100.6	1230.5	1923.6	1979.7	6189.4	16277.3	17105.1	16346.3
72.5°	720.3	736.4	855.1	1121.4	1451.9	1362.1	2136.9	12069.2	13566.0	15401.4
75°	508.6	516.6	601.6	943.3	1082.9	991.5	1090.9	6239.2	8157.9	11807.7
77.5°	391.5	405.9	455.6	659.4	1066.9	696.3	667.4	2159.4	3317.7	7132.8
80°	211.8	237.4	328.9	476.5	749.2	492.5	330.5	859.9	1124.6	3335.4
82.5°	109.1	121.9	229.4	343.3	426.7	430.0	163.6	357.8	463.6	1030.0
85°	43.3	52.9	154.0	189.3	219.8	211.8	73.8	144.4	166.8	285.6
87.5°	9.6	16.0	56.2	43.3	41.7	44.9	17.6	33.7	32.1	33.7
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2878.1	0°	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1	2878.1
2897.4	2.5°	2895.8	2889.4	2871.7	2852.5	2830.0	2817.2	2809.1	2807.5	2796.3	2788.3
2961.6	5°	2943.9	2937.5	2903.8	2863.7	2820.4	2786.7	2754.6	2725.7	2684.0	2676.0
3054.6	7.5°	3040.2	3022.5	2968.0	2913.4	2831.6	2733.7	2615.0	2478.7	2356.7	2319.8
3178.1	10°	3158.9	3134.8	3065.8	2969.6	2788.3	2522.0	2234.8	1968.5	1756.7	1697.4
3324.1	12.5°	3293.6	3272.8	3181.3	3003.3	2607.0	2124.1	1684.5	1354.0	1148.7	1097.3
3479.7	15°	3454.1	3423.6	3296.9	2951.9	2282.9	1613.9	1156.7	961.0	887.2	877.6
3657.8	17.5°	3624.1	3574.4	3399.5	2767.4	1846.6	1147.1	893.6	837.4	805.4	795.7
3837.5	20°	3779.7	3715.6	3460.5	2488.3	1379.7	893.6	800.5	763.7	734.8	723.5
4017.2	22.5°	3935.4	3843.9	3460.5	2108.1	1034.8	792.5	734.8	701.1	667.4	653.0
4209.7	25°	4097.4	3975.5	3399.5	1684.5	832.6	726.8	672.2	635.3	606.4	588.8
4392.6	27.5°	4254.6	4086.2	3260.0	1283.4	741.2	669.0	614.4	579.2	551.9	539.0
4591.5	30°	4403.8	4195.3	3064.2	973.8	681.8	612.8	561.5	531.0	503.8	490.9
4849.8	32.5°	4606.0	4333.2	2855.7	798.9	630.5	559.9	513.4	484.5	460.4	450.8
5185.1	35°	4886.7	4537.0	2676.0	784.5	587.2	516.6	470.1	442.8	418.7	410.7
5618.3	37.5°	5284.6	4865.9	2581.3	880.8	551.9	478.1	434.8	405.9	383.4	377.0
6168.6	40°	5775.5	5311.9	2632.7	977.0	527.8	444.4	402.7	373.8	354.6	346.5
6800.7	42.5°	6357.9	5862.1	2916.6	1050.8	511.8	415.5	372.2	340.1	327.3	324.1
7517.8	45°	7026.9	6467.0	3351.4	1129.4	486.1	388.2	341.7	317.7	308.0	306.4
8297.5	47.5°	7787.3	7131.1	3855.2	1227.3	460.4	362.6	317.7	301.6	293.6	290.4
9110.9	50°	8541.3	7800.1	4373.3	1281.8	439.6	338.5	298.4	285.6	279.1	277.5
9970.8	52.5°	9330.7	8488.4	4792.1	1230.5	421.9	319.3	282.4	272.7	266.3	264.7
10763.3	55°	10083.1	9045.1	4864.3	1044.4	386.6	300.0	264.7	259.9	251.9	251.9
11567.1	57.5°	10731.2	9324.2	4354.1	766.9	351.3	271.1	247.1	242.3	235.8	234.2
12292.2	60°	11326.4	9244.0	3361.0	516.6	312.8	242.3	224.6	221.4	215.0	207.0
12922.7	62.5°	11661.7	8891.1	2299.0	336.9	274.3	211.8	198.9	197.3	182.9	166.8
13389.6	65°	11788.5	8165.9	1434.3	245.5	229.4	181.3	171.7	168.5	147.6	129.9
13654.3	67.5°	11677.8	6972.3	723.5	194.1	181.3	150.8	141.2	141.2	126.7	110.7
13638.2	70°	11235.0	5226.8	304.8	155.6	139.6	115.5	115.5	121.9	107.5	89.8
12930.7	72.5°	10274.0	3516.6	162.0	118.7	104.3	81.8	94.7	99.5	85.0	67.4
10583.6	75°	8167.5	2145.0	112.3	88.2	65.8	57.8	72.2	75.4	57.8	44.9
7256.3	77.5°	5586.2	1232.1	75.4	56.2	41.7	33.7	49.7	46.5	30.5	20.9
2797.9	80°	2453.0	513.4	43.3	25.7	16.0	12.8	17.6	12.8	9.6	6.4
383.4	82.5°	287.2	120.3	16.0	9.6	6.4	3.2	1.6	0.0	0.0	0.0
117.1	85°	59.4	14.4	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0
20.9	87.5°	11.2	3.2	1.6	0.0	0.0	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

(END O

<u>180°</u>
2878.1
2796.3
2672.8
2302.2
1674.9
1082.9
867.9
790.9
717.1
644.9
582.4
539.0
492.5
450.8
410.7
375.4
344.9
324.1
304.8
290.4
277.5
264.7
250.3
232.6
205.4
163.6
128.3
109.1
88.2
67.4
43.3
22.5
6.4
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