

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: P953646

Luminaire Tested: **GALN-SB7A-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25404 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

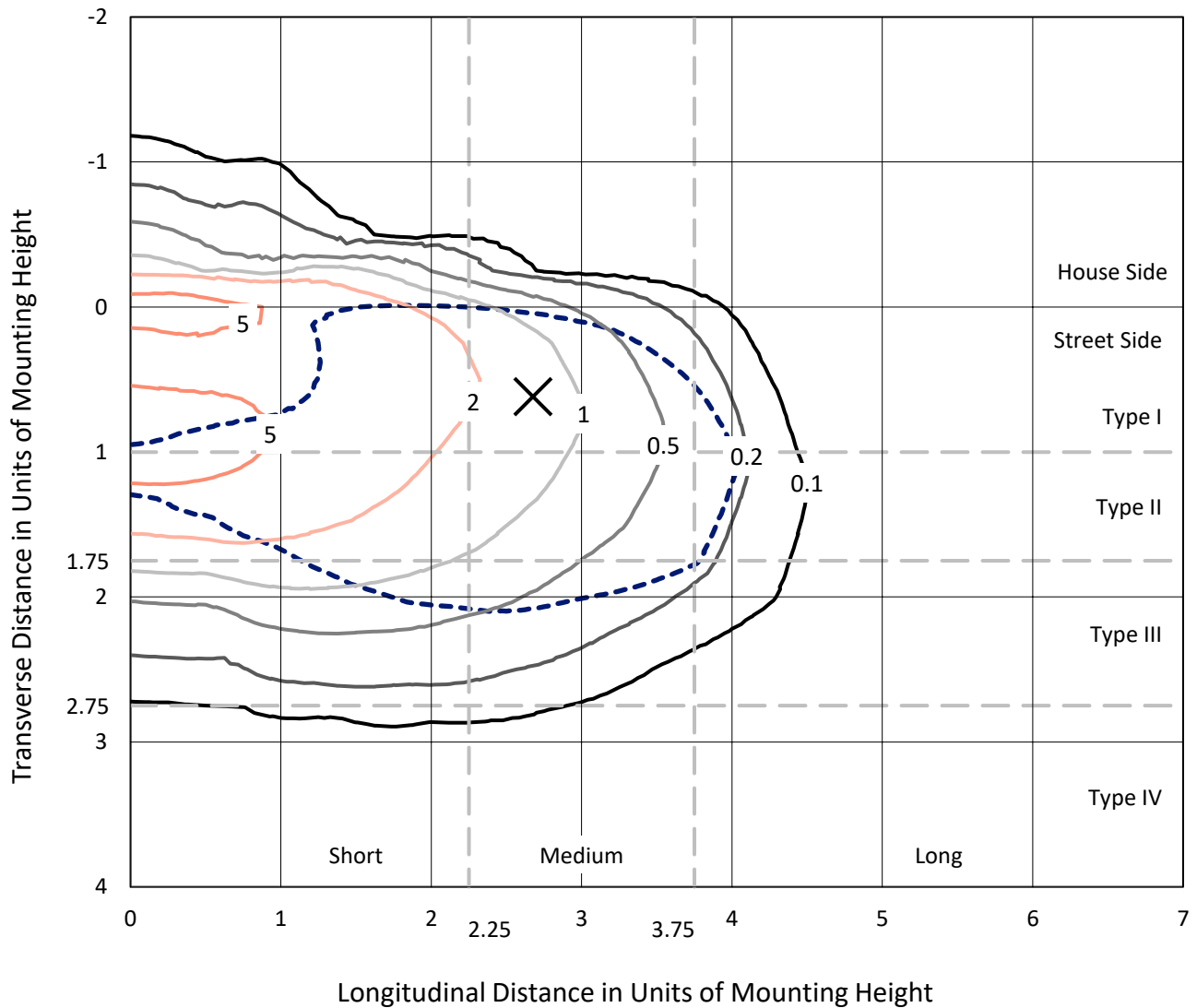
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

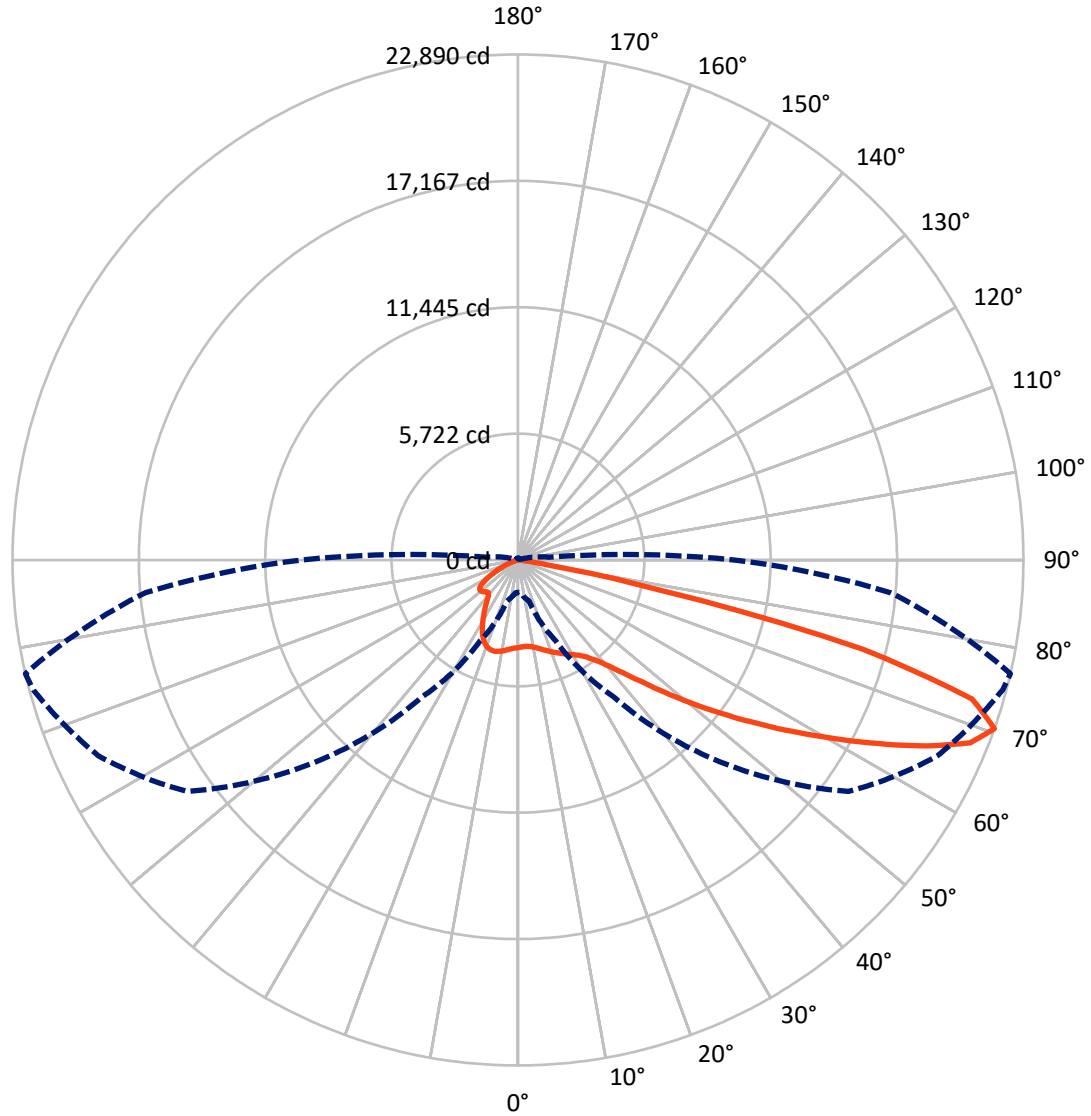
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2677.9	0.0	2677.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22726.0	0.0	22726.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	25404.0	0.0	25404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	1.3
10°-20°	810.7	3.2
20°-30°	1253.9	4.9
30°-40°	2275.3	9.0
40°-50°	4295.0	16.9
50°-60°	6205.9	24.4
60°-70°	6606.0	26.0
70°-80°	3500.7	13.8
80°-90°	114.9	0.5
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°	25404.0	100.0
0°-180°	25404.0	100.0

Coefficient of Utilization



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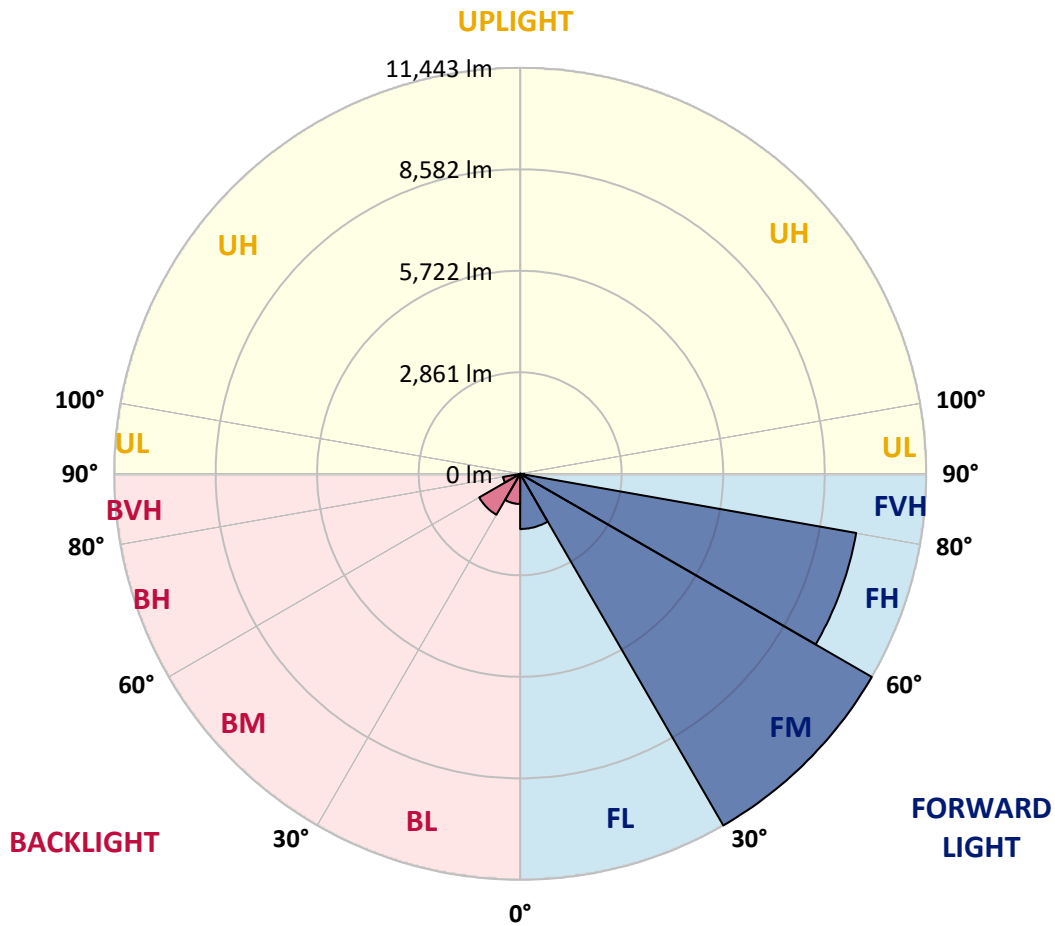
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.3	6.1			
FM (30°-60°)	11443.1	45.0			
FH (60°-80°)	9615.8	37.9			G4/12000
FVH (80°-90°)	111.9	0.4			G2/225
BL (0°-30°)	850.8	3.3	B2/1000		
BM (30°-60°)	1333.1	5.2	B2/2500		
BH (60°-80°)	490.9	1.9	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6
2.5°	3720.3	3754.0	3749.2	3771.7	3779.7	3811.8	3843.8	3887.2	3935.3	3933.7
5°	3510.2	3543.8	3551.9	3582.4	3620.9	3670.6	3736.4	3823.0	3912.8	3927.3
7.5°	3261.5	3296.8	3317.6	3378.6	3449.2	3551.9	3659.4	3786.1	3935.3	3956.1
10°	3012.8	3044.9	3072.2	3158.8	3271.1	3423.5	3598.4	3781.3	3981.8	4012.3
12.5°	2858.8	2889.3	2919.8	2995.2	3134.8	3320.9	3558.3	3803.7	4058.8	4102.1
15°	2804.3	2831.5	2855.6	2923.0	3052.9	3264.7	3550.3	3850.3	4156.7	4214.4
17.5°	2812.3	2826.7	2842.8	2894.1	3020.9	3239.0	3564.7	3930.5	4272.2	4323.5
20°	2858.8	2866.8	2868.4	2903.7	3016.0	3235.8	3593.6	4007.5	4381.3	4450.3
22.5°	2918.2	2921.4	2918.2	2942.2	3046.5	3259.9	3632.1	4100.5	4503.2	4567.4
25°	3195.7	3134.8	3057.8	3011.2	3097.9	3306.4	3689.8	4225.7	4636.4	4698.9
27.5°	4057.2	3882.4	3606.4	3296.8	3203.7	3373.8	3770.1	4352.4	4771.1	4827.3
30°	5456.1	5226.7	4758.3	4060.4	3543.8	3515.0	3874.3	4479.1	4913.9	4974.9
32.5°	6858.3	6802.1	6261.5	5295.7	4309.1	3829.4	4047.6	4650.8	5103.2	5151.3
35°	8276.5	8162.6	7719.8	6765.2	5488.2	4469.5	4336.4	4875.4	5351.9	5406.4
37.5°	9362.6	9293.6	9019.2	8233.2	6887.2	5457.8	4830.5	5223.5	5712.8	5773.8
40°	10321.9	10289.8	10196.8	9678.6	8451.3	6750.8	5598.9	5762.6	6213.4	6285.6
42.5°	11075.9	11151.3	11204.3	11059.9	10063.6	8226.7	6632.1	6519.8	6911.2	6985.0
45°	11847.6	11873.3	12086.6	12295.2	11664.7	9770.0	7796.8	7406.9	7779.1	7870.6
47.5°	12343.3	12446.0	12821.4	13188.8	13010.7	11300.5	9048.1	8454.5	8785.0	8956.7
50°	12380.2	12574.3	13090.9	13731.0	13990.9	12757.2	10408.6	9648.1	9999.5	10188.8
52.5°	11765.8	12067.4	12867.9	13804.8	14520.3	13990.9	11815.5	10841.7	11292.5	11539.6
55°	9020.9	9415.5	12028.9	13403.7	14541.2	14926.2	13185.6	12085.0	12733.1	13012.3
57.5°	7859.4	8058.3	9457.2	12707.5	14154.5	15303.2	14424.1	13269.0	14300.5	14647.1
60°	6539.0	6800.5	7931.5	11568.4	13629.9	15340.1	15518.2	14796.3	15999.5	16389.3
62.5°	4443.8	4727.8	5852.4	9611.2	12912.8	15322.5	16415.0	16368.4	17887.7	18306.4
65°	2752.9	2931.0	3672.2	7848.1	11910.2	15341.7	17353.5	18277.5	19880.2	20305.3
67.5°	2175.4	2257.2	2643.8	6025.7	10182.3	14908.5	18290.4	20072.7	21755.6	22092.5
70°	1461.5	1511.2	1923.5	4039.6	7575.4	12909.6	18272.7	20974.3	22721.4	22889.8
72.5°	770.1	808.6	1124.6	1870.6	4575.4	9176.5	15402.7	19896.2	21760.4	21506.9
75°	385.0	449.2	757.2	949.7	1954.0	5117.6	9564.7	15686.6	17127.3	16145.4
77.5°	292.0	352.9	625.7	625.7	680.2	1723.0	4050.8	8555.6	7891.4	6571.1
80°	186.1	240.6	547.1	473.3	284.0	438.0	1055.6	2396.8	1676.5	1275.4
82.5°	109.1	157.2	455.6	312.8	158.8	162.0	298.4	510.2	434.8	338.5
85°	43.3	102.7	312.8	123.5	62.6	40.1	89.8	109.1	89.8	67.4
87.5°	0.0	24.1	54.5	0.0	4.8	3.2	6.4	8.0	8.0	6.4
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°
3962.6	0°	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6
3965.8	2.5°	3980.2	3983.4	3993.0	3994.7	3972.2	3943.3	3932.1	3927.3	3908.0	3906.4
3991.4	5°	4028.3	4042.8	4028.3	3986.6	3887.2	3747.6	3641.7	3555.1	3476.5	3452.4
4079.7	7.5°	4124.6	4139.0	4095.7	3932.1	3681.8	3404.3	3154.0	2977.5	2818.7	2759.4
4187.2	10°	4262.6	4281.8	4145.5	3815.0	3372.2	2926.2	2502.7	2204.3	1971.7	1877.0
4333.2	12.5°	4435.8	4443.8	4172.7	3636.9	2969.5	2332.6	1732.6	1413.4	1206.4	1129.4
4509.6	15°	4626.7	4615.5	4175.9	3394.7	2420.9	1649.2	1131.0	928.9	845.5	819.8
4686.1	17.5°	4827.3	4780.7	4111.8	3044.9	1819.3	1127.8	839.0	790.9	776.5	770.1
4861.0	20°	5024.6	4920.3	3994.7	2587.7	1305.9	842.2	762.0	747.6	739.6	736.4
5037.4	22.5°	5204.3	5026.2	3794.1	2056.7	948.1	744.4	720.3	707.5	693.0	686.6
5209.1	25°	5379.1	5087.2	3511.8	1561.0	758.8	696.3	677.0	652.9	633.7	625.7
5393.6	27.5°	5549.2	5125.7	3158.8	1155.1	677.0	651.3	616.0	582.4	567.9	564.7
5590.9	30°	5730.5	5138.5	2757.8	861.5	627.3	595.2	543.9	505.3	497.3	498.9
5857.2	32.5°	5951.9	5157.8	2353.5	705.9	585.6	527.8	466.8	426.7	420.3	426.7
6245.5	35°	6216.6	5196.3	1963.6	649.7	548.7	458.8	393.0	359.4	352.9	357.8
6742.8	37.5°	6575.9	5258.8	1599.5	638.5	518.2	401.1	330.5	303.2	303.2	304.8
7352.4	40°	7054.0	5425.7	1273.8	630.5	502.1	357.8	279.1	267.9	272.7	275.9
8128.9	42.5°	7636.4	5780.2	1054.0	620.9	484.5	338.5	253.5	248.7	256.7	259.9
9059.4	45°	8289.3	6229.4	977.0	604.8	468.4	351.3	242.2	235.8	245.5	247.1
10102.1	47.5°	8964.7	6669.0	967.4	587.2	452.4	370.6	239.0	224.6	235.8	237.4
11215.5	50°	9648.1	6956.1	977.0	559.9	426.7	370.6	240.6	213.4	223.0	227.8
12370.6	52.5°	10336.4	7087.7	970.6	500.5	381.8	348.1	240.6	203.7	213.4	216.6
13618.7	55°	11003.7	7062.0	872.7	412.3	324.1	308.0	234.2	195.7	202.1	203.7
14797.9	57.5°	11531.5	6704.3	691.4	320.9	263.1	256.7	213.4	186.1	190.9	189.3
15879.1	60°	11807.5	5918.2	494.1	247.1	207.0	202.1	187.7	173.3	176.5	168.4
16795.2	62.5°	11810.7	4878.6	330.5	195.7	165.2	160.4	160.4	155.6	152.4	136.4
17504.3	65°	11558.8	3725.1	219.8	155.6	133.2	125.1	134.8	133.2	121.9	99.5
17720.8	67.5°	10987.7	2441.7	166.8	121.9	102.7	97.9	107.5	112.3	104.3	83.4
16931.5	70°	9813.4	1421.4	138.0	94.7	77.0	72.2	86.6	96.3	86.6	67.4
14472.2	72.5°	8151.3	766.8	112.3	70.6	52.9	48.1	69.0	78.6	69.0	49.7
9285.6	75°	5289.3	410.7	86.6	46.5	27.3	30.5	51.3	57.8	48.1	32.1
2725.7	77.5°	1775.9	181.3	54.5	22.5	12.8	12.8	30.5	35.3	22.5	11.2
495.7	80°	396.3	75.4	22.5	9.6	4.8	4.8	6.4	6.4	3.2	0.0
152.4	82.5°	129.9	30.5	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
38.5	85°	49.7	11.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	19.3	1.6	0.0	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

180°
3962.6
3909.6
3438.0
2735.3
1836.9
1105.3
819.8
768.4
733.2
685.0
622.5
561.5
498.9
425.1
356.1
303.2
275.9
259.9
248.7
239.0
229.4
216.6
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