

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: P953648

Luminaire Tested: **GALN-SB7A-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23505 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

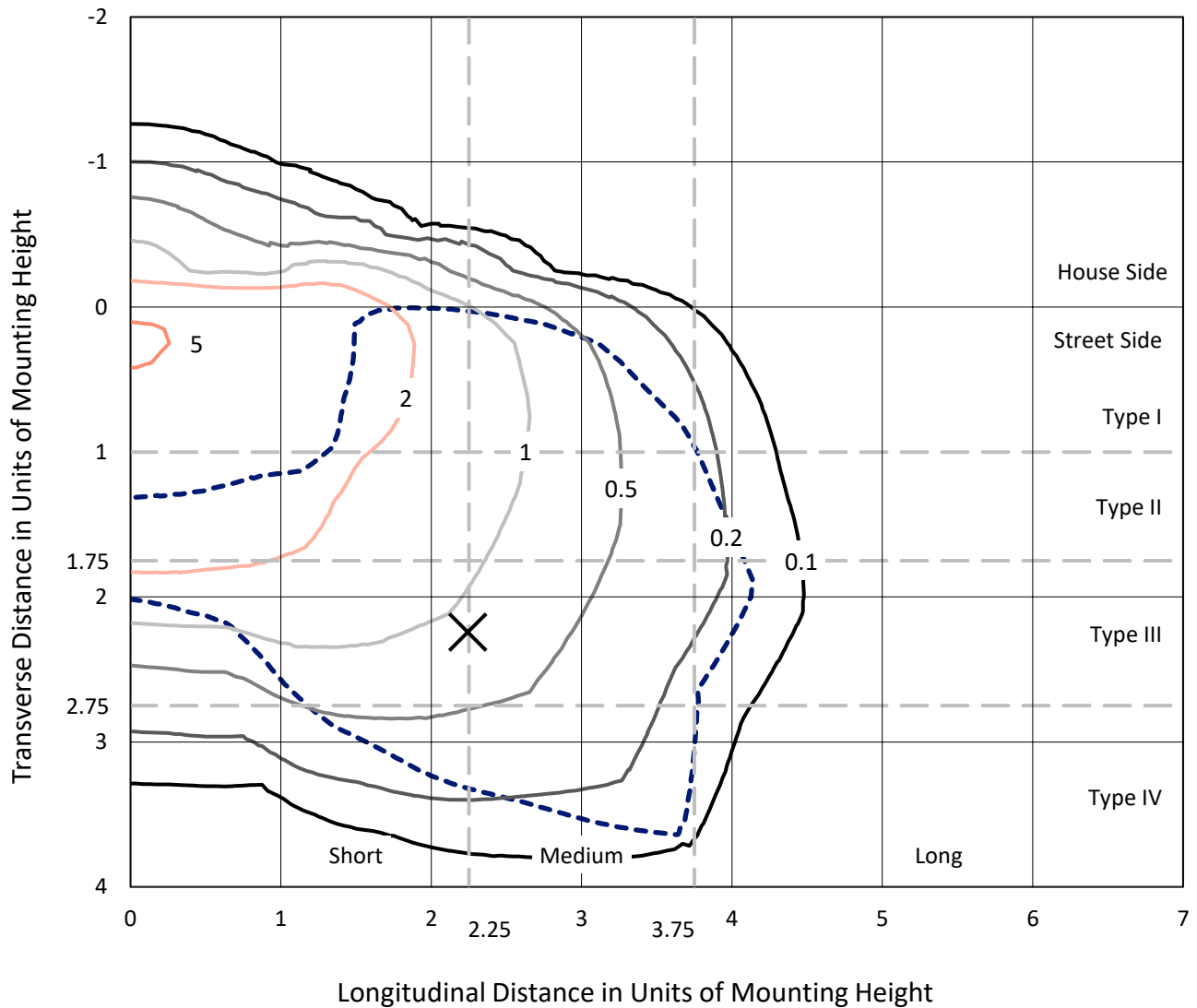
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

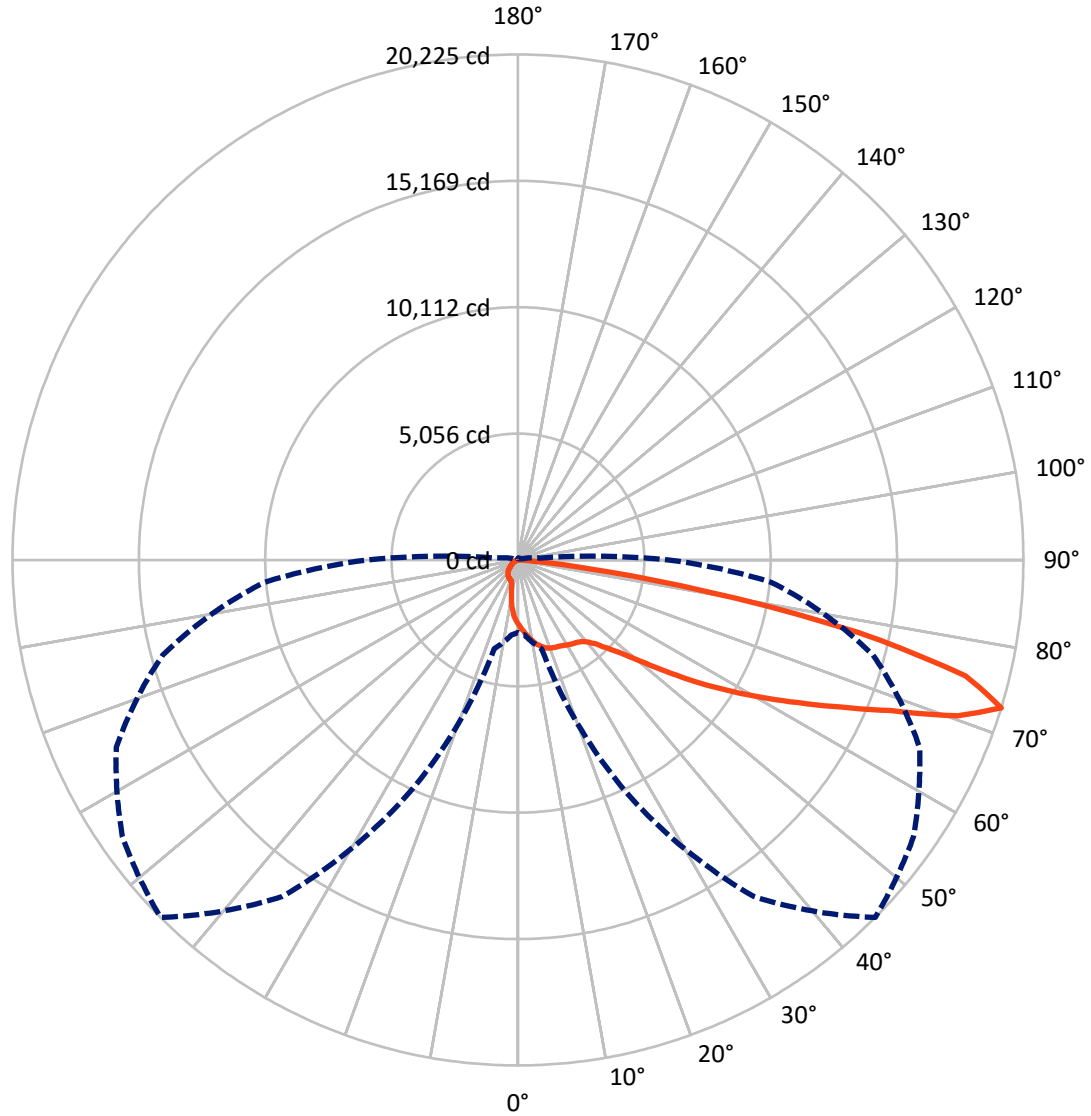
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2469.7	0.0	2469.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21035.3	0.0	21035.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	23505.0	0.0	23505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	1.0
10°-20°	709.1	3.0
20°-30°	1164.4	5.0
30°-40°	1651.4	7.0
40°-50°	2729.6	11.6
50°-60°	4903.4	20.9
60°-70°	6808.6	29.0
70°-80°	4938.8	21.0
80°-90°	357.1	1.5
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°	23505.0	100.0
0°-180°	23505.0	100.0

Coefficient of Utilization



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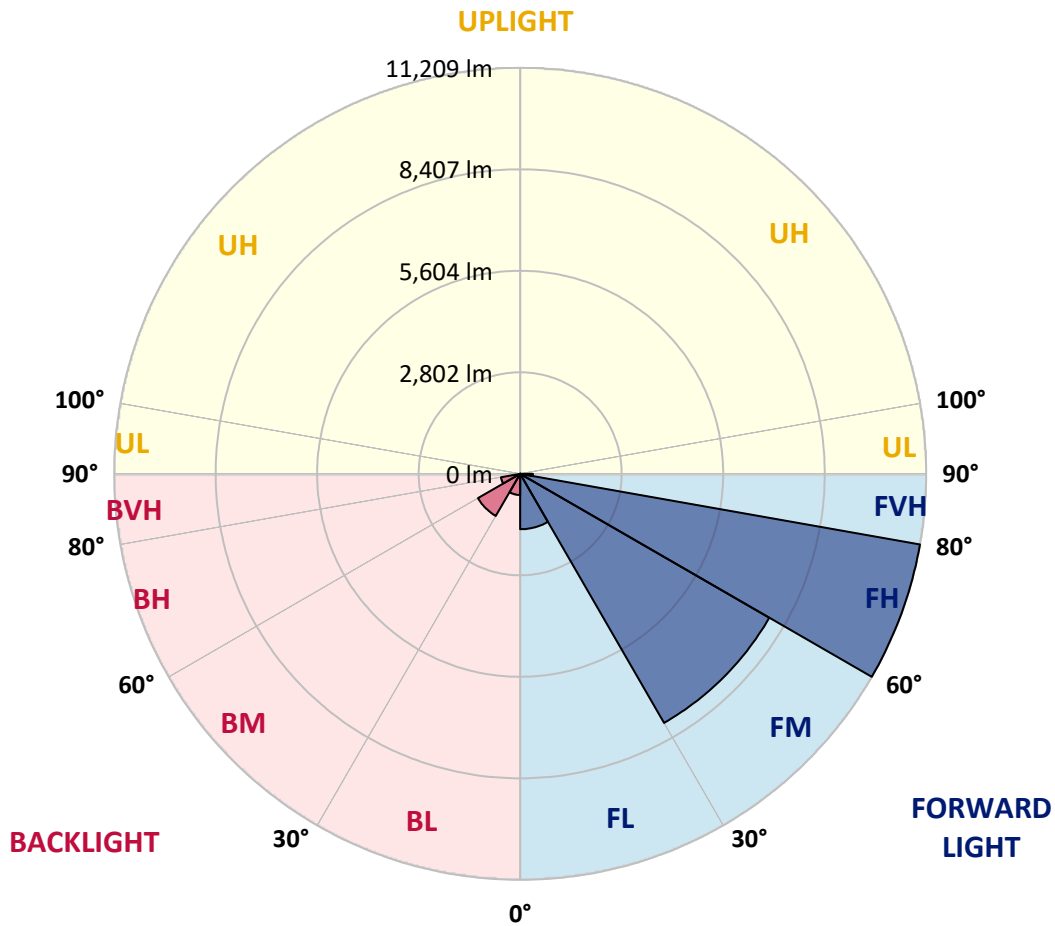
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.1	6.5			
FM (30°-60°)	7941.2	33.8			
FH (60°-80°)	11208.9	47.7			G4/12000
FVH (80°-90°)	354.1	1.5			G3/500
BL (0°-30°)	585.0	2.5	B2/1000		
BM (30°-60°)	1343.2	5.7	B2/2500		
BH (60°-80°)	538.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2812.5	2817.3	2814.1	2794.8	2762.7	2745.1	2735.5	2703.4	2682.5	2645.6
5°	3070.8	3090.0	3078.8	3040.3	2979.3	2936.0	2923.2	2857.4	2798.0	2729.0
7.5°	3345.1	3354.7	3333.9	3284.2	3202.3	3128.5	3117.3	3025.9	2931.2	2825.3
10°	3582.6	3593.8	3561.7	3489.5	3396.5	3305.0	3289.0	3187.9	3075.6	2945.6
12.5°	3781.5	3792.7	3751.0	3664.4	3561.7	3467.1	3451.0	3345.1	3221.6	3077.2
15°	3932.3	3953.2	3897.0	3804.0	3693.3	3598.6	3590.6	3486.3	3366.0	3205.5
17.5°	4020.6	4041.4	3988.5	3876.2	3781.5	3701.3	3691.7	3605.0	3492.7	3338.7
20°	4035.0	4054.3	3998.1	3900.2	3821.6	3757.4	3752.6	3690.1	3608.2	3460.6
22.5°	3991.7	4015.8	3964.4	3885.8	3831.2	3797.6	3791.1	3755.8	3709.3	3584.2
25°	3946.8	3966.0	3927.5	3858.5	3829.6	3826.4	3831.2	3824.8	3815.2	3709.3
27.5°	3943.6	3964.4	3921.1	3855.3	3839.3	3873.0	3877.8	3908.3	3916.3	3823.2
30°	3970.8	3985.3	3943.6	3874.6	3866.5	3943.6	3945.2	3999.7	4012.5	3919.5
32.5°	4030.2	4046.2	4004.5	3903.4	3892.2	3999.7	4004.5	4076.7	4097.6	4022.2
35°	4169.8	4189.0	4140.9	3983.7	3943.6	4052.7	4067.1	4152.1	4193.8	4131.3
37.5°	4517.9	4461.8	4396.0	4145.7	4060.7	4136.1	4160.1	4259.6	4333.4	4261.2
40°	5382.7	5206.2	5000.8	4421.7	4266.0	4314.2	4333.4	4432.9	4534.0	4463.4
42.5°	6680.6	6472.1	6141.5	5057.0	4575.7	4599.7	4614.2	4700.8	4843.6	4787.5
45°	7837.4	7762.0	7425.1	6141.5	5154.9	5036.1	5053.8	5098.7	5308.9	5288.0
47.5°	8726.2	8682.9	8423.0	7386.5	6133.5	5570.4	5620.1	5641.0	5944.2	6018.0
50°	9409.7	9393.6	9161.0	8493.6	7412.2	6358.1	6375.8	6330.9	6784.9	6967.8
52.5°	10054.6	10109.2	9937.5	9522.0	8777.5	7389.8	7386.5	7174.8	7787.6	8063.6
55°	10637.0	10656.3	10673.9	10571.2	10150.9	8564.2	8533.7	8187.1	8950.8	9236.4
57.5°	11184.1	11192.1	11349.4	11559.5	11580.4	9825.2	9769.0	9353.5	10221.5	10425.2
60°	11551.5	11588.4	11920.5	12504.5	12759.6	11126.3	11095.9	10672.3	11514.6	11609.3
62.5°	11022.1	11246.7	12084.2	13242.5	13873.0	12568.7	12554.2	12156.4	12875.1	12798.1
65°	8921.9	9302.2	10775.0	13741.5	14965.6	14179.5	14200.3	13776.8	14272.5	14022.2
67.5°	6241.0	6642.1	8384.5	13781.6	16186.5	16071.0	16191.4	15527.1	15756.6	15195.0
70°	4315.8	4522.7	5657.0	12918.4	17137.9	18676.5	18673.3	17677.0	17232.6	15729.3
72.5°	2902.3	3009.8	3674.0	10248.8	16438.4	20224.8	20131.7	19319.9	17730.0	14710.5
75°	1224.1	1302.8	1700.6	5759.7	13005.1	18503.3	18251.4	17073.8	15753.4	11583.6
77.5°	388.3	422.0	670.6	2061.6	7163.5	13908.3	13642.0	10662.7	10558.4	5811.0
80°	184.5	215.0	377.0	827.9	2818.9	7564.6	7527.7	4837.2	4542.0	1569.1
82.5°	80.2	94.7	208.6	442.8	1261.0	2698.6	2753.1	1646.1	1362.1	595.2
85°	25.7	33.7	96.3	203.8	532.7	670.6	662.6	391.5	548.7	324.1
87.5°	0.0	0.0	32.1	46.5	54.5	38.5	43.3	33.7	152.4	89.8
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°
2575.0	0°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2607.1	2.5°	2587.9	2562.2	2517.3	2475.6	2438.7	2401.8	2379.3	2347.2	2344.0	2344.0
2648.8	5°	2605.5	2563.8	2483.6	2398.5	2300.7	2207.6	2114.6	2024.7	1995.8	1975.0
2716.2	7.5°	2656.8	2591.1	2464.3	2302.3	2116.2	1912.4	1769.6	1615.6	1556.2	1524.2
2806.1	10°	2730.6	2640.8	2448.3	2164.3	1862.7	1585.1	1381.4	1214.5	1150.3	1123.1
2903.9	12.5°	2812.5	2701.8	2419.4	1992.6	1585.1	1253.0	1054.1	977.1	967.4	967.4
3021.0	15°	2910.3	2775.6	2369.7	1790.5	1294.7	991.5	920.9	924.1	933.7	940.2
3134.9	17.5°	3011.4	2854.2	2291.0	1564.3	1038.0	892.0	893.6	898.5	906.5	912.9
3258.5	20°	3120.5	2932.8	2186.8	1323.6	890.4	863.2	868.0	872.8	879.2	882.4
3374.0	22.5°	3237.6	3006.6	2063.2	1087.8	840.7	839.1	840.7	845.5	853.5	853.5
3508.8	25°	3362.8	3088.4	1922.0	916.1	815.0	815.0	818.2	821.4	827.9	827.9
3638.7	27.5°	3491.1	3163.8	1772.8	826.3	792.6	791.0	791.0	795.8	799.0	800.6
3767.1	30°	3632.3	3252.1	1623.6	807.0	774.9	766.9	762.1	765.3	768.5	770.1
3901.8	32.5°	3776.7	3337.1	1490.5	815.0	757.3	742.8	726.8	723.6	723.6	730.0
4041.4	35°	3937.1	3430.2	1387.8	842.3	747.6	707.5	681.9	667.4	669.0	678.7
4208.3	37.5°	4129.7	3542.5	1312.4	866.4	741.2	667.4	625.7	608.1	596.8	608.1
4437.7	40°	4381.5	3707.7	1257.8	885.6	733.2	620.9	564.7	535.9	515.0	521.4
4793.9	42.5°	4752.2	3967.6	1237.0	887.2	715.6	566.3	502.2	463.7	433.2	434.8
5329.7	45°	5272.0	4378.3	1344.5	866.4	677.0	507.0	436.4	385.1	365.8	361.0
6130.3	47.5°	5984.3	4976.8	1593.1	823.0	620.9	449.2	372.2	328.9	314.5	306.4
7181.2	50°	6938.9	5745.3	1869.1	774.9	564.7	394.7	319.3	292.0	282.4	274.3
8427.8	52.5°	8045.9	6525.0	2095.3	726.8	508.6	346.5	285.6	269.5	261.5	255.1
9631.1	55°	9061.5	7062.5	2082.5	675.4	454.0	308.0	261.5	251.9	242.3	235.8
10667.5	57.5°	9693.6	7137.9	1716.7	619.3	391.5	277.6	239.1	232.6	221.4	213.4
11564.3	60°	9984.0	6707.9	1203.3	545.5	328.9	248.7	215.0	211.8	197.3	186.1
12413.1	62.5°	10037.0	5908.9	802.2	454.0	274.3	221.4	190.9	186.1	166.9	147.6
13102.9	65°	9822.0	4766.6	555.1	354.6	234.2	192.5	163.6	154.0	133.2	113.9
13266.6	67.5°	9141.7	3346.7	386.7	255.1	198.9	152.4	130.0	126.7	110.7	94.7
12432.3	70°	7895.1	1907.6	258.3	190.9	157.2	104.3	102.7	105.9	89.8	77.0
10157.3	72.5°	6053.3	872.8	160.4	139.6	107.5	70.6	81.8	83.4	69.0	57.8
6337.3	75°	3563.3	373.8	101.1	89.8	54.5	46.5	59.4	61.0	46.5	36.9
2316.7	77.5°	1212.9	141.2	64.2	52.9	27.3	25.7	38.5	38.5	25.7	14.4
465.3	80°	276.0	52.9	32.1	20.9	12.8	11.2	12.8	11.2	6.4	1.6
142.8	82.5°	78.6	20.9	12.8	8.0	4.8	4.8	1.6	0.0	0.0	0.0
49.7	85°	22.5	9.6	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
17.6	87.5°	9.6	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°
2575.0
2352.0
1984.6
1529.0
1123.1
967.4
940.2
912.9
884.0
856.7
829.5
802.2
773.3
734.8
683.5
604.8
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