

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: P943548

Luminaire Tested: **GALN-SB8A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23881 lumens
Efficiency: N/A
Efficacy: 105.2 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

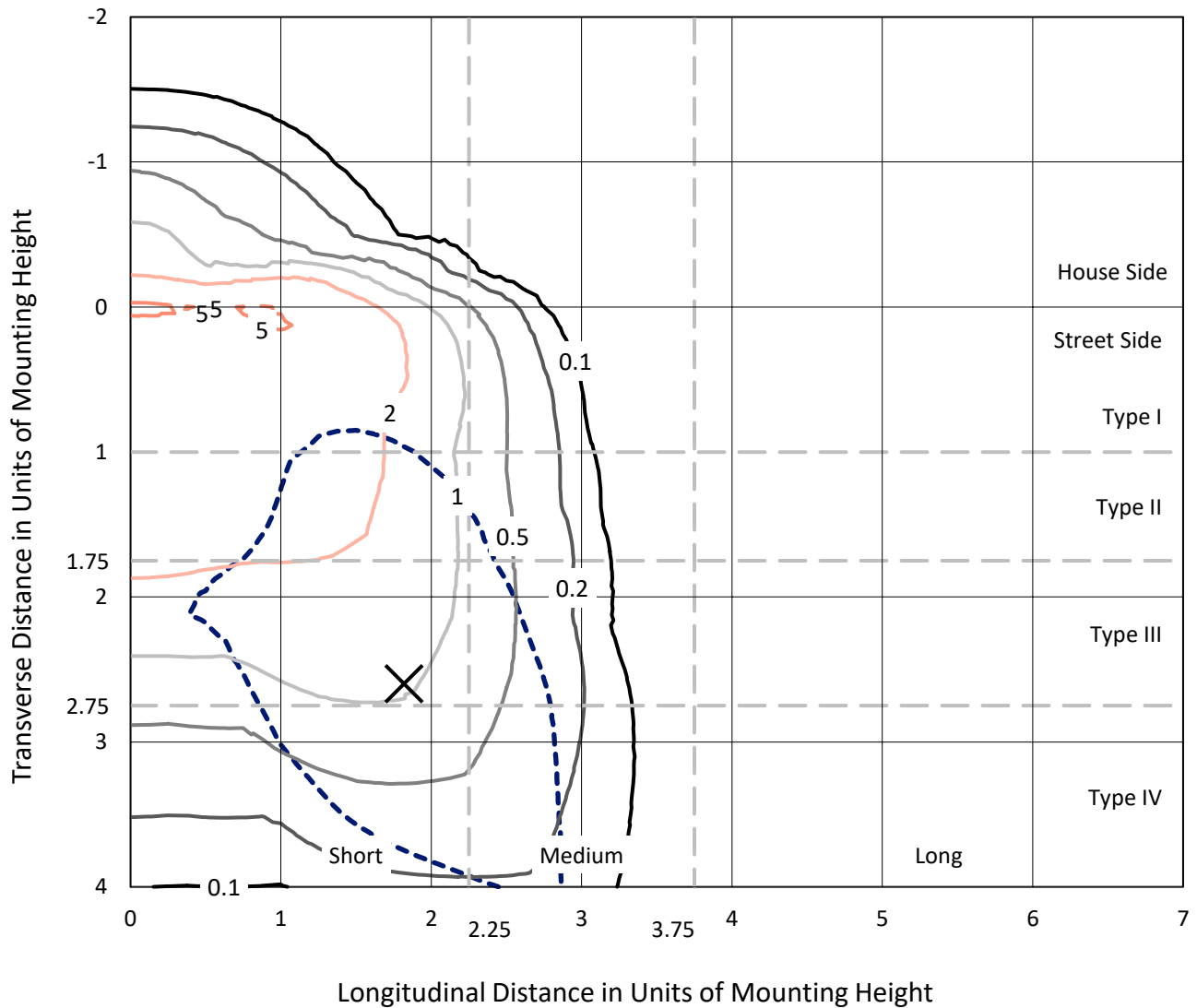
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

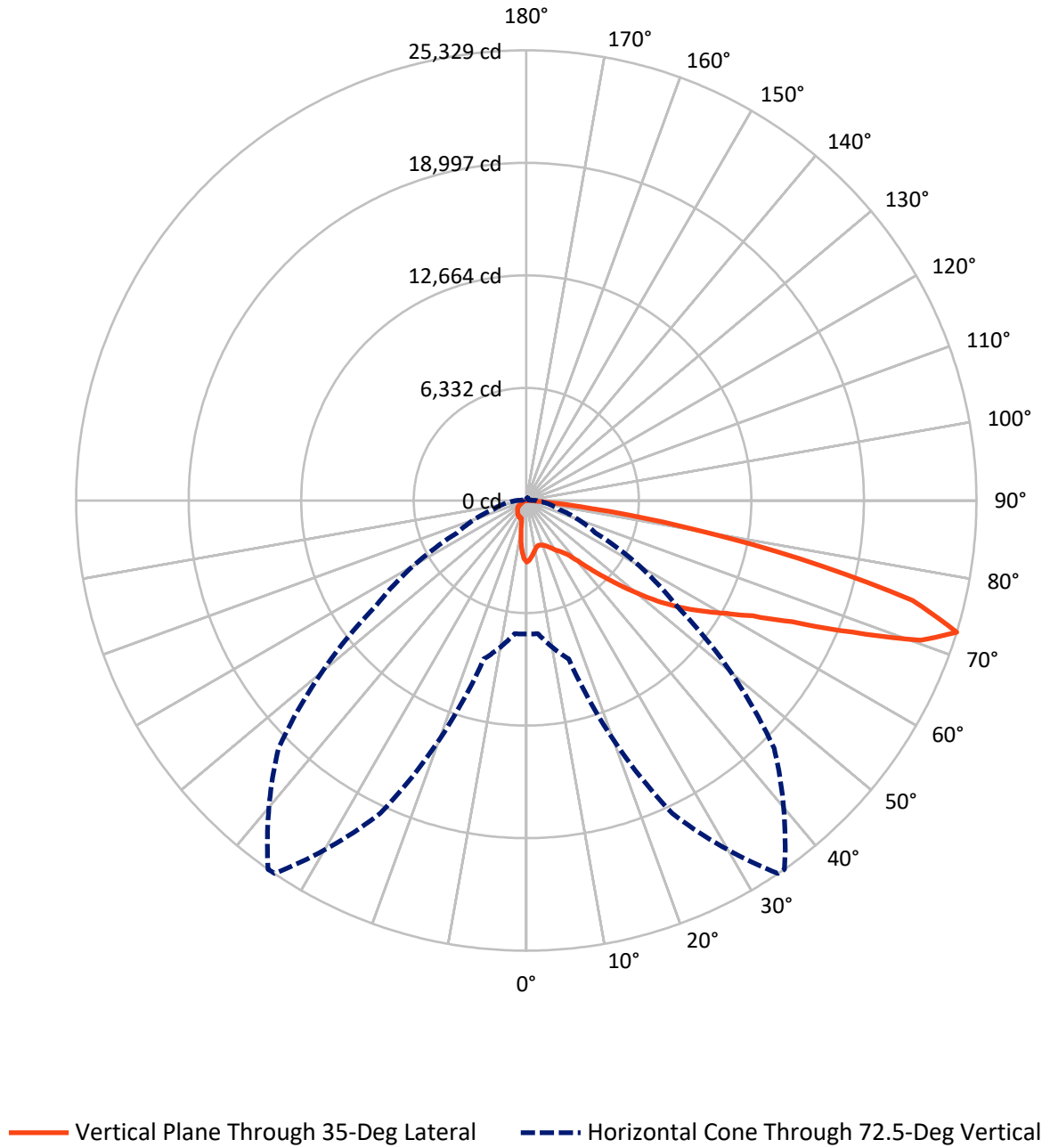
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2687.7	0.0	2687.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21193.3	0.0	21193.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	23881.0	0.0	23881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	1.2
10°-20°	665.4	2.8
20°-30°	1080.9	4.5
30°-40°	1803.4	7.6
40°-50°	3412.1	14.3
50°-60°	5421.7	22.7
60°-70°	6707.1	28.1
70°-80°	4169.2	17.5
80°-90°	336.9	1.4
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°	23881.0	100.0
0°-180°	23881.0	100.0

Coefficient of Utilization



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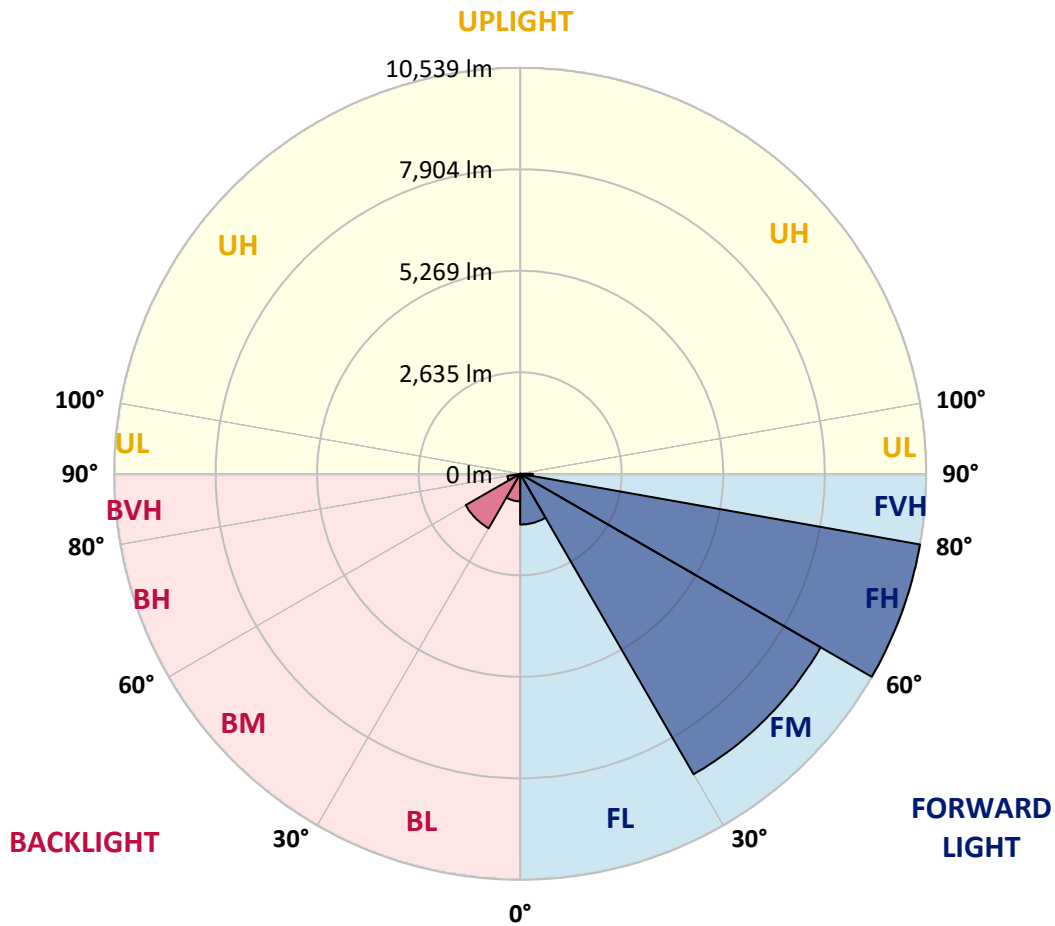
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.5	5.5			
FM (30°-60°)	9005.5	37.7			
FH (60°-80°)	10539.0	44.1			G4/12000
FVH (80°-90°)	332.3	1.4			G3/500
BL (0°-30°)	714.2	3.0	B2/1000		
BM (30°-60°)	1631.7	6.8	B2/2500		
BH (60°-80°)	337.3	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	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°	34°	35°	45°	55°	65°	75°
0°	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2
2.5°	3307.2	3335.2	3340.4	3349.2	3349.2	3359.7	3377.2	3401.7	3441.9	3462.9
5°	3048.2	3069.2	3095.4	3116.4	3156.7	3161.9	3230.2	3296.7	3389.4	3459.4
7.5°	2787.5	2812.0	2847.0	2897.7	2950.2	2966.0	3069.2	3181.2	3328.2	3459.4
10°	2603.7	2605.5	2637.0	2687.7	2771.7	2791.0	2917.0	3076.2	3259.9	3438.4
12.5°	2500.5	2512.8	2526.8	2565.2	2645.7	2658.0	2792.7	2980.0	3191.7	3426.2
15°	2500.5	2509.3	2518.0	2537.2	2602.0	2612.5	2731.5	2918.7	3156.7	3431.4
17.5°	2526.8	2540.7	2533.7	2556.5	2624.7	2631.7	2736.7	2901.2	3154.9	3464.7
20°	2589.7	2600.2	2586.2	2600.2	2668.5	2682.5	2791.0	2934.5	3184.7	3522.4
22.5°	2689.5	2694.7	2661.5	2672.0	2742.0	2759.5	2885.5	3029.0	3256.4	3615.1
25°	2815.5	2826.0	2775.2	2787.5	2854.0	2875.0	3020.2	3170.7	3370.2	3742.9
27.5°	2960.7	2966.0	2922.2	2920.5	3006.2	3035.9	3182.9	3345.7	3522.4	3903.9
30°	3126.9	3142.7	3100.7	3093.7	3202.2	3226.7	3371.9	3560.9	3746.4	4145.3
32.5°	3258.2	3270.4	3245.9	3263.4	3373.7	3392.9	3601.1	3865.4	4098.1	4488.3
35°	3447.2	3454.2	3398.2	3429.7	3555.6	3604.6	3914.4	4292.3	4540.8	4918.8
37.5°	4131.3	4131.3	3893.4	3737.6	3858.4	3902.1	4343.1	4829.5	5086.7	5496.2
40°	5078.0	5062.2	4714.0	4395.6	4379.8	4465.6	4953.8	5506.7	5791.9	6189.1
42.5°	6087.6	6063.2	5588.9	5274.0	5221.5	5251.2	5658.9	6341.4	6631.8	7034.3
45°	6983.6	6976.6	6542.6	6119.1	6024.7	6119.1	6539.1	7317.8	7526.0	7949.5
47.5°	7734.2	7734.2	7417.5	7141.0	7092.0	7148.0	7730.7	8400.9	8381.7	8924.1
50°	8598.6	8591.7	8290.7	8171.7	8222.4	8301.2	9102.6	9541.8	9267.1	9881.3
52.5°	9204.1	9246.1	9142.8	9123.6	9382.6	9519.1	10495.5	10658.2	10059.8	10789.4
55°	9683.5	9732.5	9851.5	9986.3	10485.0	10663.4	11844.6	11716.8	10722.9	11576.9
57.5°	10362.5	10292.5	10476.2	10742.2	11548.9	11764.1	13151.7	12716.0	11256.6	12215.5
60°	11186.6	11197.1	11228.6	11564.6	12611.0	12887.5	14439.6	13660.9	11599.6	12607.5
62.5°	12177.0	12192.8	12257.5	12773.7	14037.1	14297.8	15811.4	14434.3	11757.1	12497.3
65°	12108.8	12175.3	12898.0	14663.5	16205.1	16462.4	17412.5	14976.8	11519.1	11489.4
67.5°	11030.9	11139.4	12348.5	16920.8	19473.8	19760.8	19347.8	15083.5	10492.0	8934.6
70°	9617.0	9655.5	11109.7	18950.6	23258.7	23549.2	21080.2	13909.4	7961.7	4983.5
72.5°	7510.3	7519.0	9225.1	19421.3	25313.0	25328.7	19720.5	10325.7	4281.8	1914.3
75°	5365.0	5312.5	6178.6	15750.2	22270.0	22448.5	14784.3	4843.5	1636.1	904.7
77.5°	2876.7	2934.5	3496.2	9340.6	15384.5	15688.9	8066.7	1396.4	832.9	615.9
80°	888.9	937.9	1433.1	4276.6	8714.1	8897.9	2990.5	621.2	580.9	439.2
82.5°	280.0	290.5	668.4	1797.1	3616.9	3700.9	866.2	351.7	397.2	290.5
85°	80.5	82.2	297.5	670.2	894.2	911.7	243.2	136.5	227.5	180.2
87.5°	8.7	28.0	112.0	112.0	78.7	77.0	26.2	29.7	64.7	22.7
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°
3461.2	0°	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2	3461.2
3476.9	2.5°	3468.2	3469.9	3447.2	3408.7	3366.7	3331.7	3287.9	3252.9	3228.4	3221.4
3508.4	5°	3492.7	3480.4	3415.7	3298.4	3158.4	3037.7	2903.0	2796.2	2726.2	2696.5
3541.6	7.5°	3529.4	3494.4	3352.7	3121.7	2854.0	2616.0	2374.5	2187.3	2068.3	2008.8
3573.1	10°	3560.9	3490.9	3247.7	2866.2	2456.8	2096.3	1770.8	1545.1	1419.1	1359.6
3609.9	12.5°	3590.6	3489.2	3111.2	2563.5	2008.8	1567.8	1265.1	1153.1	1118.1	1105.9
3669.4	15°	3646.6	3494.4	2939.7	2217.0	1562.6	1184.6	1074.4	1072.6	1079.6	1076.1
3760.4	17.5°	3723.6	3499.7	2745.5	1849.6	1205.6	1044.6	1039.4	1055.1	1065.6	1060.4
3874.1	20°	3823.4	3520.7	2539.0	1485.6	1035.9	1009.7	1021.9	1035.9	1044.6	1035.9
4026.4	22.5°	3963.4	3557.4	2313.3	1193.4	981.7	988.7	999.2	1014.9	1023.6	1011.4
4220.6	25°	4134.8	3615.1	2091.0	1037.6	955.4	964.2	979.9	997.4	1007.9	995.7
4465.6	27.5°	4357.1	3707.9	1886.3	1002.7	929.2	934.4	957.2	983.4	997.4	981.7
4813.8	30°	4679.0	3860.1	1709.6	1018.4	913.4	901.2	932.7	969.4	985.2	971.2
5288.0	32.5°	5106.0	4075.3	1601.1	1042.9	906.4	862.7	892.4	939.7	965.9	957.2
5907.4	35°	5665.9	4402.6	1559.1	1070.9	901.2	822.4	843.4	894.2	939.7	948.4
6687.8	37.5°	6344.9	4857.5	1571.3	1083.1	885.4	789.2	799.7	843.4	902.9	930.9
7566.3	40°	7116.5	5387.7	1641.3	1070.9	867.9	761.2	762.9	796.2	848.7	890.7
8511.2	42.5°	7912.7	6007.2	1770.8	1025.4	852.2	736.7	731.4	754.2	789.2	818.9
9454.3	45°	8670.4	6644.1	1898.6	962.4	832.9	712.2	699.9	708.7	715.7	727.9
10373.0	47.5°	9331.8	7092.0	1861.8	904.7	806.7	684.2	663.2	659.7	638.7	636.9
11193.6	50°	9788.5	7190.0	1653.6	846.9	768.2	652.7	619.4	598.4	561.7	544.2
11807.8	52.5°	9933.8	6803.3	1350.9	789.2	705.2	610.7	563.4	530.2	484.7	469.0
12161.3	55°	9741.3	6045.7	1079.6	719.2	617.7	554.7	502.2	458.5	421.7	402.5
12199.8	57.5°	9270.6	5081.5	853.9	636.9	524.9	491.7	439.2	395.5	364.0	344.7
11772.8	60°	8490.2	4035.1	675.4	538.9	448.0	423.5	369.2	341.2	313.2	290.5
10670.4	62.5°	7305.5	2880.2	530.2	427.0	374.5	346.5	315.0	294.0	260.7	229.2
8687.9	65°	5700.9	1762.1	409.5	313.2	301.0	287.0	267.7	248.5	208.2	176.7
5667.7	67.5°	3595.9	834.7	292.2	236.2	238.0	231.0	222.2	206.5	176.7	148.7
2539.0	70°	1583.6	404.2	192.5	180.2	176.7	176.7	183.7	178.5	150.5	124.2
881.9	72.5°	538.9	217.0	143.5	136.5	127.7	126.0	154.0	148.7	120.7	96.2
439.2	75°	281.7	145.2	105.0	98.0	77.0	92.7	122.5	115.5	85.7	63.0
290.5	77.5°	183.7	103.2	71.7	63.0	43.7	61.2	91.0	80.5	50.7	31.5
190.7	80°	115.5	68.2	42.0	29.7	21.0	33.2	49.0	35.0	19.2	7.0
112.0	82.5°	61.2	35.0	15.7	10.5	8.7	10.5	12.2	8.7	3.5	0.0
57.7	85°	24.5	12.2	5.2	3.5	1.7	0.0	3.5	1.7	0.0	0.0
10.5	87.5°	8.7	1.7	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

<u>180°</u>
3461.2
3233.7
2707.0
2017.6
1361.4
1102.4
1074.4
1058.6
1034.1
1009.7
993.9
981.7
969.4
957.2
948.4
937.9
904.7
831.2
734.9
635.2
545.9
467.2
402.5
341.2
285.2
224.0
171.5
145.2
119.0
91.0
57.7
28.0
5.2
0.0
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