

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: P950351

Luminaire Tested: **GALN-SB4D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950351
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-SB4D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA 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: 27317 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

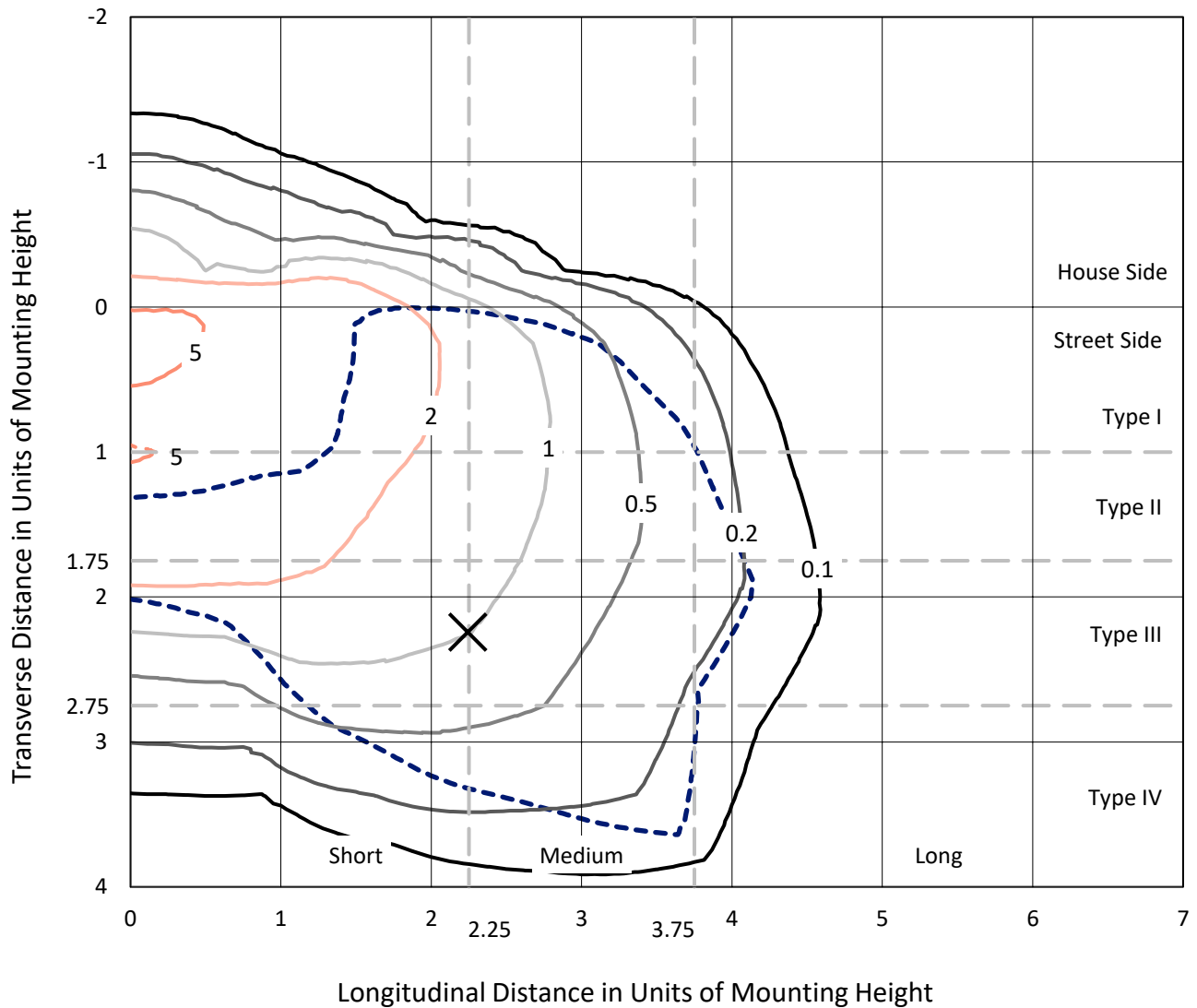
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

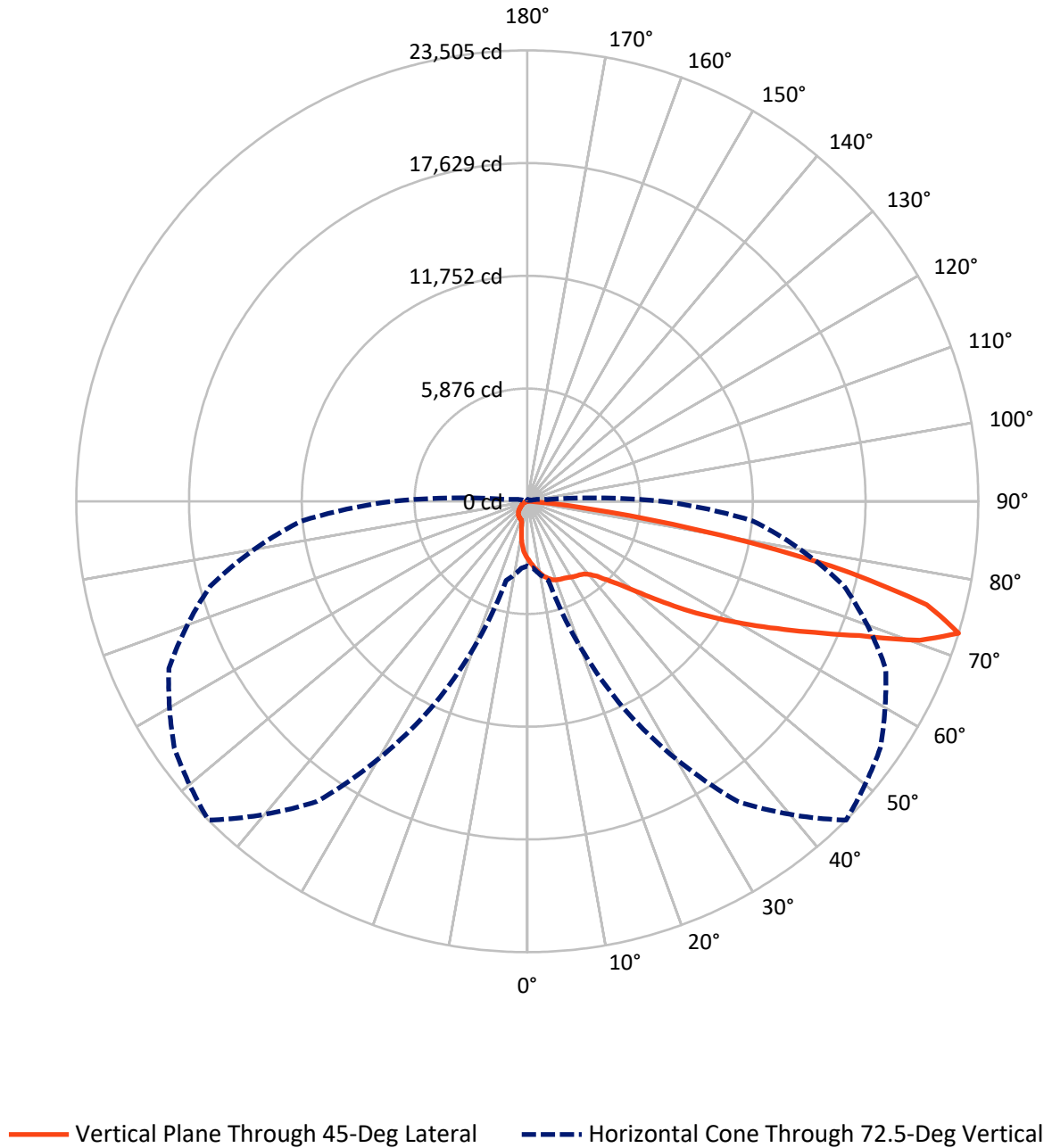
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2870.3	0.0	2870.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24446.7	0.0	24446.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	27317.0	0.0	27317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	1.0
10°-20°	824.1	3.0
20°-30°	1353.3	5.0
30°-40°	1919.2	7.0
40°-50°	3172.3	11.6
50°-60°	5698.6	20.9
60°-70°	7912.9	29.0
70°-80°	5739.7	21.0
80°-90°	415.0	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°	27317.0	100.0
0°-180°	27317.0	100.0

Coefficient of Utilization



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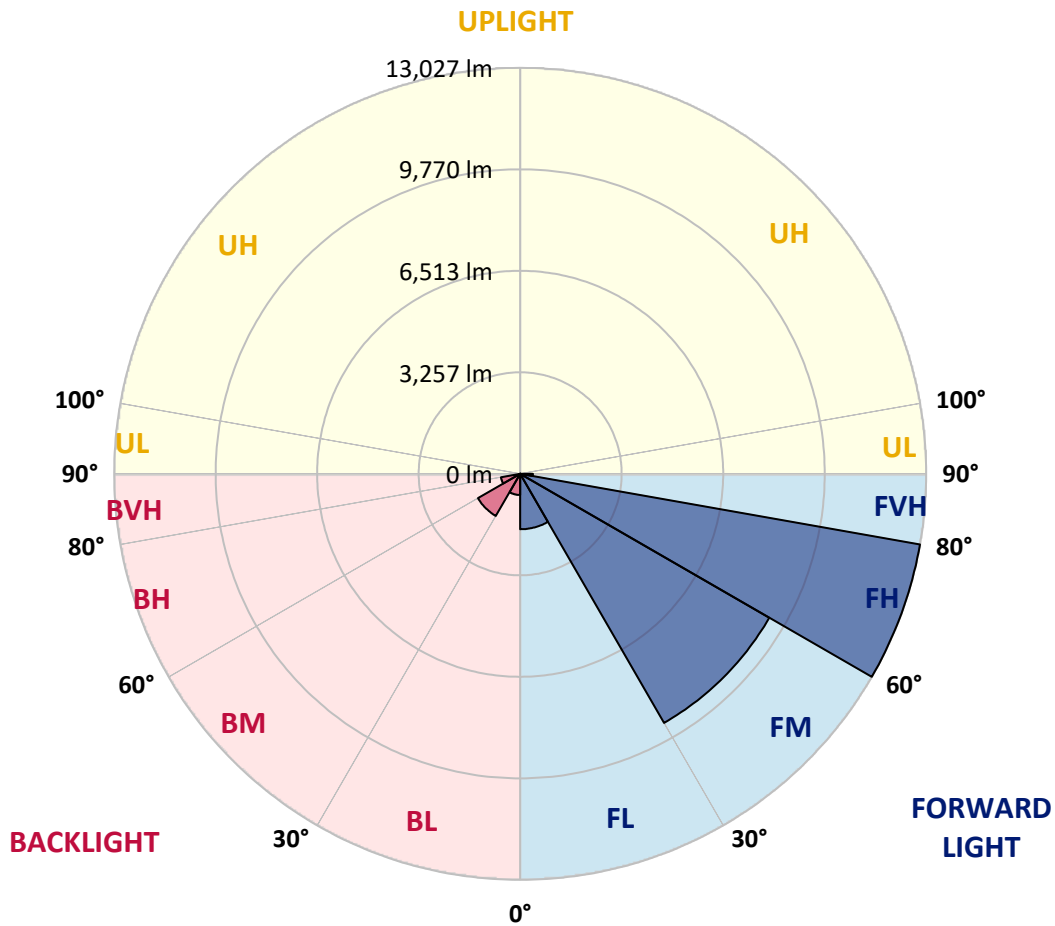
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1779.4	6.5			
FM (30°-60°)	9229.1	33.8			
FH (60°-80°)	13026.7	47.7			G5
FVH (80°-90°)	411.5	1.5			G3/500
BL (0°-30°)	679.9	2.5	B2/1000		
BM (30°-60°)	1561.0	5.7	B2/2500		
BH (60°-80°)	625.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.5	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6
2.5°	3268.6	3274.2	3270.5	3248.1	3210.8	3190.3	3179.1	3141.8	3117.6	3074.7
5°	3568.8	3591.2	3578.1	3533.4	3462.5	3412.2	3397.2	3320.8	3251.8	3171.6
7.5°	3887.6	3898.8	3874.6	3816.8	3721.7	3635.9	3622.9	3516.6	3406.6	3283.5
10°	4163.6	4176.6	4139.3	4055.4	3947.3	3841.0	3822.4	3704.9	3574.4	3423.4
12.5°	4394.8	4407.8	4359.4	4258.7	4139.3	4029.3	4010.7	3887.6	3744.1	3576.2
15°	4570.1	4594.3	4529.0	4420.9	4292.2	4182.2	4172.9	4051.7	3911.9	3725.4
17.5°	4672.6	4696.9	4635.3	4504.8	4394.8	4301.6	4290.4	4189.7	4059.2	3880.2
20°	4689.4	4711.8	4646.5	4532.8	4441.4	4366.8	4361.2	4288.5	4193.4	4021.9
22.5°	4639.1	4667.0	4607.4	4516.0	4452.6	4413.4	4406.0	4365.0	4310.9	4165.5
25°	4586.8	4609.2	4564.5	4484.3	4450.7	4447.0	4452.6	4445.1	4433.9	4310.9
27.5°	4583.1	4607.4	4557.0	4480.6	4461.9	4501.1	4506.7	4542.1	4551.4	4443.3
30°	4614.8	4631.6	4583.1	4502.9	4493.6	4583.1	4585.0	4648.4	4663.3	4555.1
32.5°	4683.8	4702.4	4654.0	4536.5	4523.4	4648.4	4654.0	4737.9	4762.1	4674.5
35°	4846.0	4868.4	4812.5	4629.7	4583.1	4709.9	4726.7	4825.5	4874.0	4801.3
37.5°	5250.6	5185.4	5108.9	4818.0	4719.2	4806.9	4834.8	4950.4	5036.2	4952.3
40°	6255.6	6050.5	5811.9	5138.8	4957.9	5013.8	5036.2	5151.8	5269.3	5187.2
42.5°	7764.1	7521.7	7137.6	5877.1	5317.8	5345.7	5362.5	5463.2	5629.1	5563.9
45°	9108.4	9020.8	8629.2	7137.6	5990.9	5852.9	5873.4	5925.6	6169.9	6145.6
47.5°	10141.4	10091.1	9789.0	8584.5	7128.3	6473.8	6531.6	6555.8	6908.2	6994.0
50°	10935.7	10917.1	10646.7	9871.0	8614.3	7389.3	7409.8	7357.6	7885.3	8097.8
52.5°	11685.3	11748.7	11549.1	11066.2	10201.1	8588.2	8584.5	8338.4	9050.6	9371.3
55°	12362.1	12384.5	12405.0	12285.7	11797.1	9953.1	9917.6	9514.9	10402.4	10734.3
57.5°	12997.9	13007.2	13190.0	13434.2	13458.5	11418.6	11353.4	10870.4	11879.2	12116.0
60°	13424.9	13467.8	13853.8	14532.5	14828.9	12930.8	12895.4	12403.1	13382.0	13492.0
62.5°	12809.6	13070.6	14043.9	15390.2	16122.9	14607.0	14590.3	14127.8	14963.2	14873.7
65°	10368.9	10810.8	12522.5	15970.0	17392.7	16479.1	16503.3	16011.1	16587.2	16296.3
67.5°	7253.2	7719.3	9744.2	16016.7	18811.7	18677.4	18817.2	18045.3	18311.9	17659.3
70°	5015.7	5256.2	6574.5	15013.5	19917.3	21705.5	21701.7	20543.8	20027.4	18280.2
72.5°	3373.0	3497.9	4269.9	11910.9	19104.4	23504.8	23396.6	22453.2	20605.4	17096.2
75°	1422.7	1514.0	1976.4	6693.8	15114.2	21504.1	21211.4	19842.8	18308.2	13462.2
77.5°	451.2	490.4	779.4	2396.0	8325.3	16164.0	15854.4	12391.9	12270.7	6753.5
80°	214.4	249.9	438.2	962.1	3276.1	8791.4	8748.6	5621.7	5278.6	1823.5
82.5°	93.2	110.0	242.4	514.6	1465.6	3136.2	3199.6	1913.0	1583.0	691.8
85°	29.8	39.2	111.9	236.8	619.0	779.4	770.1	455.0	637.7	376.6
87.5°	0.0	0.0	37.3	54.1	63.4	44.7	50.3	39.2	177.1	104.4
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°
2992.6	0°	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6	2992.6
3029.9	2.5°	3007.6	2977.7	2925.5	2877.0	2834.1	2791.3	2765.2	2727.9	2724.1	2724.1
3078.4	5°	3028.1	2979.6	2886.4	2787.5	2673.8	2565.6	2457.5	2353.1	2319.5	2295.3
3156.7	7.5°	3087.7	3011.3	2864.0	2675.7	2459.4	2222.6	2056.6	1877.6	1808.6	1771.3
3261.1	10°	3173.5	3069.1	2845.3	2515.3	2164.8	1842.2	1605.4	1411.5	1336.9	1305.2
3374.9	12.5°	3268.6	3139.9	2811.8	2315.8	1842.2	1456.2	1225.0	1135.5	1124.3	1124.3
3511.0	15°	3382.3	3225.7	2754.0	2080.9	1504.7	1152.3	1070.3	1074.0	1085.2	1092.6
3643.4	17.5°	3499.8	3317.1	2662.6	1818.0	1206.4	1036.7	1038.6	1044.2	1053.5	1060.9
3786.9	20°	3626.6	3408.4	2541.4	1538.3	1034.8	1003.1	1008.7	1014.3	1021.8	1025.5
3921.2	22.5°	3762.7	3494.2	2397.8	1264.2	977.0	975.2	977.0	982.6	992.0	992.0
4077.8	25°	3908.1	3589.3	2233.8	1064.7	947.2	947.2	950.9	954.7	962.1	962.1
4228.8	27.5°	4057.3	3676.9	2060.4	960.3	921.1	919.2	919.2	924.8	928.6	930.4
4378.0	30°	4221.4	3779.5	1886.9	937.9	900.6	891.3	885.7	889.4	893.1	895.0
4534.6	32.5°	4389.2	3878.3	1732.2	947.2	880.1	863.3	844.7	840.9	840.9	848.4
4696.9	35°	4575.7	3986.5	1612.9	978.9	868.9	822.3	792.4	775.7	777.5	788.7
4890.8	37.5°	4799.4	4117.0	1525.2	1006.9	861.4	775.7	727.2	706.7	693.6	706.7
5157.4	40°	5092.1	4309.0	1461.8	1029.2	852.1	721.6	656.3	622.8	598.5	606.0
5571.3	42.5°	5522.9	4611.1	1437.6	1031.1	831.6	658.2	583.6	538.9	503.4	505.3
6194.1	45°	6127.0	5088.4	1562.5	1006.9	786.8	589.2	507.2	447.5	425.1	419.5
7124.5	47.5°	6954.8	5783.9	1851.5	956.5	721.6	522.1	432.6	382.2	365.5	356.1
8345.8	50°	8064.3	6677.0	2172.2	900.6	656.3	458.7	371.0	339.4	328.2	318.8
9794.6	52.5°	9350.8	7583.2	2435.1	844.7	591.1	402.7	331.9	313.2	303.9	296.5
11193.0	55°	10531.1	8207.8	2420.2	785.0	527.7	358.0	303.9	292.7	281.6	274.1
12397.5	57.5°	11265.7	8295.5	1995.1	719.7	455.0	322.6	277.8	270.4	257.3	248.0
13439.8	60°	11603.2	7795.8	1398.4	634.0	382.2	289.0	249.9	246.1	229.3	216.3
14426.2	62.5°	11664.8	6867.2	932.3	527.7	318.8	257.3	221.9	216.3	193.9	171.5
15227.9	65°	11414.9	5539.6	645.1	412.1	272.2	223.7	190.2	179.0	154.8	132.4
15418.1	67.5°	10624.3	3889.5	449.4	296.5	231.2	177.1	151.0	147.3	128.7	110.0
14448.6	70°	9175.6	2217.0	300.2	221.9	182.7	121.2	119.3	123.1	104.4	89.5
11804.6	72.5°	7035.0	1014.3	186.5	162.2	124.9	82.0	95.1	97.0	80.2	67.1
7365.1	75°	4141.2	434.4	117.5	104.4	63.4	54.1	69.0	70.9	54.1	42.9
2692.4	77.5°	1409.6	164.1	74.6	61.5	31.7	29.8	44.7	44.7	29.8	16.8
540.7	80°	320.7	61.5	37.3	24.2	14.9	13.1	14.9	13.1	7.5	1.9
165.9	82.5°	91.4	24.2	14.9	9.3	5.6	5.6	1.9	0.0	0.0	0.0
57.8	85°	26.1	11.2	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
20.5	87.5°	11.2	1.9	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>
2992.6
2733.5
2306.5
1776.9
1305.2
1124.3
1092.6
1060.9
1027.4
995.7
964.0
932.3
898.7
854.0
794.3
702.9
602.3
497.8
412.1
350.5
317.0
294.6
270.4
246.1
212.6
160.4
124.9
104.4
82.0
59.7
37.3
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