

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: P955349

Luminaire Tested: **GALN-SB8B-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955349
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-SB8B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA 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: 30499 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

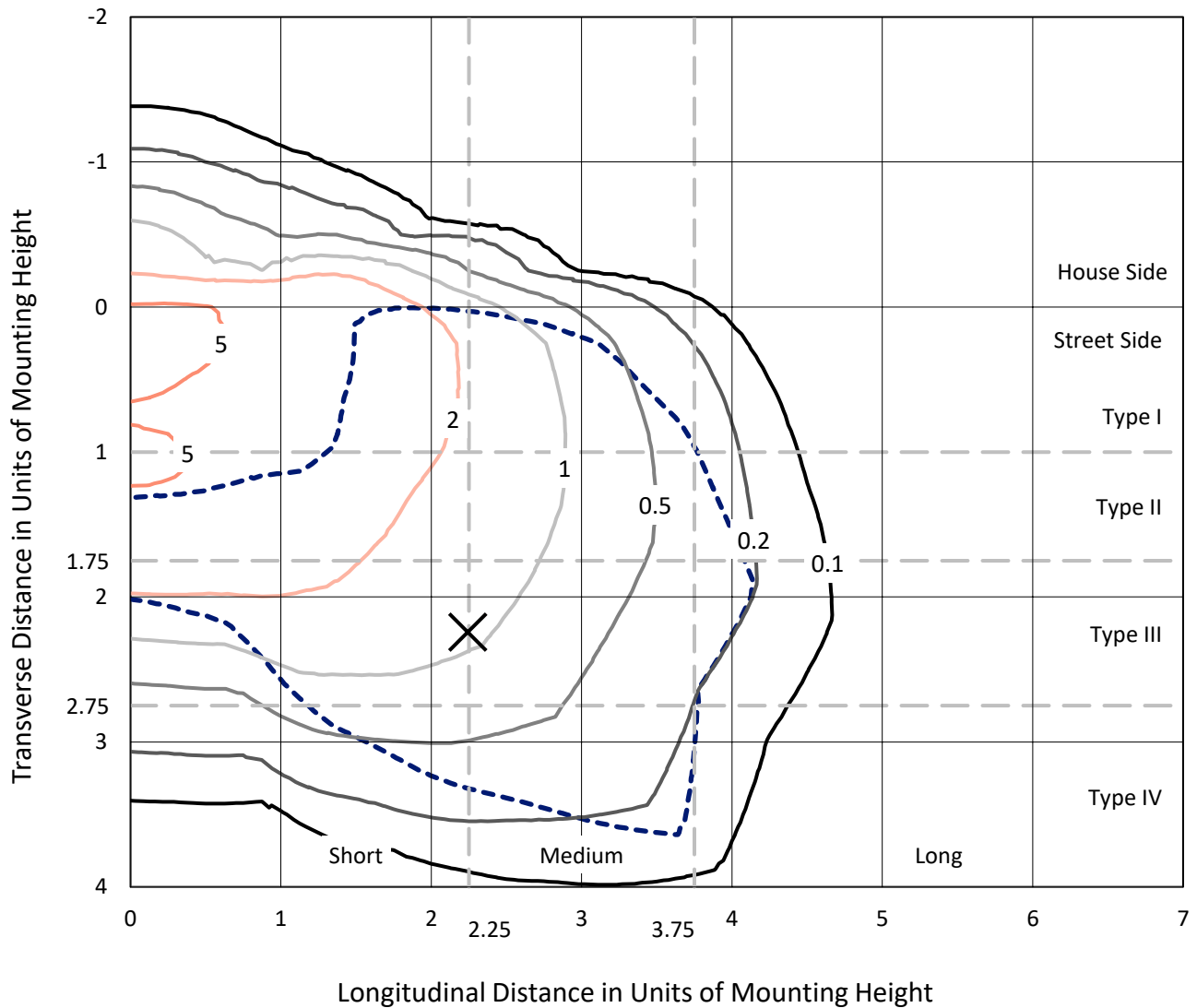
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

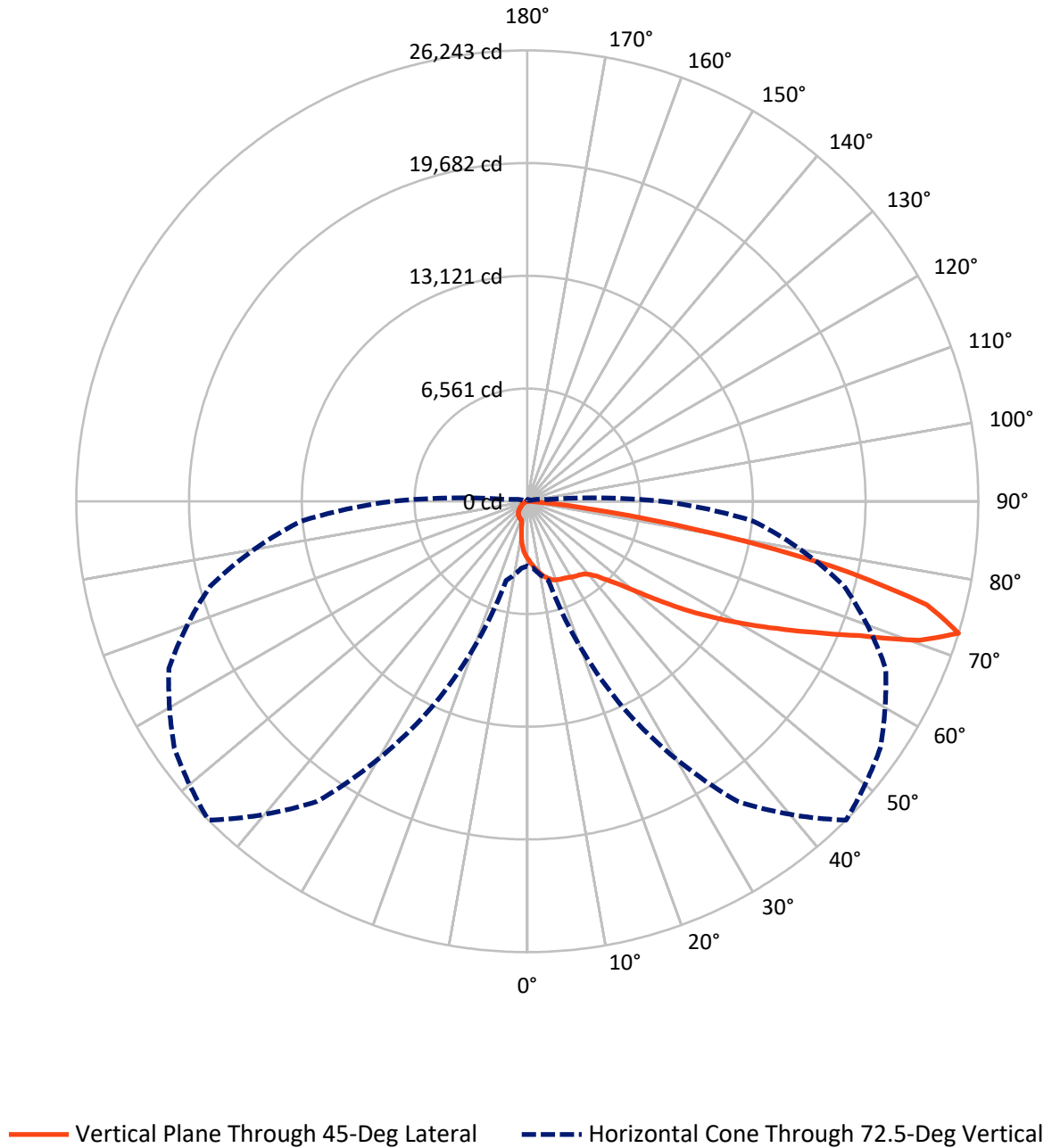
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3204.6	0.0	3204.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27294.4	0.0	27294.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	30499.0	0.0	30499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	1.0
10°-20°	920.1	3.0
20°-30°	1510.9	5.0
30°-40°	2142.8	7.0
40°-50°	3541.8	11.6
50°-60°	6362.4	20.9
60°-70°	8834.6	29.0
70°-80°	6408.3	21.0
80°-90°	463.3	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°	30499.0	100.0
0°-180°	30499.0	100.0

Coefficient of Utilization



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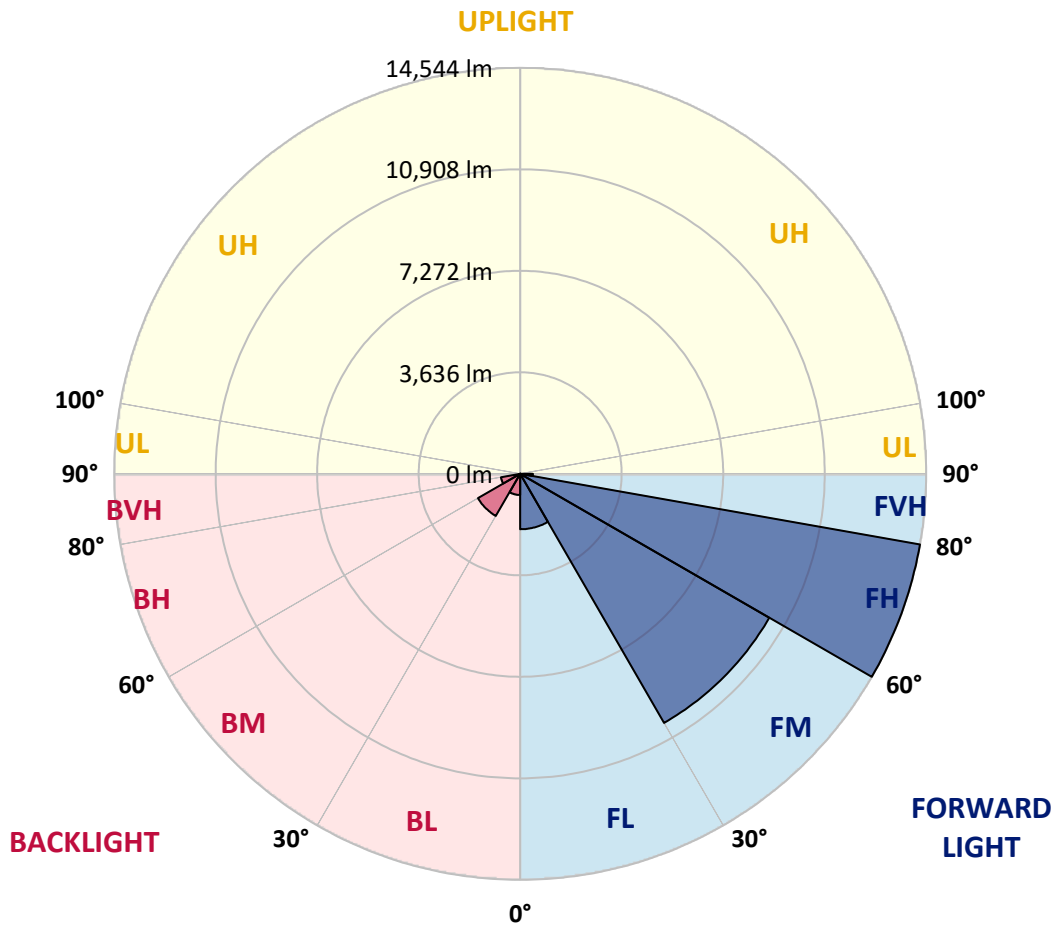
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1986.7	6.5			
FM (30°-60°)	10304.2	33.8			
FH (60°-80°)	14544.1	47.7			G5
FVH (80°-90°)	459.4	1.5			G3/500
BL (0°-30°)	759.0	2.5	B2/1000		
BM (30°-60°)	1742.8	5.7	B2/2500		
BH (60°-80°)	698.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.9	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°	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2
2.5°	3649.3	3655.6	3651.4	3626.4	3584.8	3561.9	3549.4	3507.8	3480.7	3432.8
5°	3984.5	4009.5	3994.9	3944.9	3865.8	3809.6	3793.0	3707.6	3630.6	3541.1
7.5°	4340.5	4353.0	4325.9	4261.4	4155.2	4059.4	4044.9	3926.2	3803.4	3666.0
10°	4648.6	4663.2	4621.5	4527.8	4407.1	4288.4	4267.6	4136.5	3990.7	3822.1
12.5°	4906.7	4921.3	4867.2	4754.7	4621.5	4498.7	4477.9	4340.5	4180.2	3992.8
15°	5102.4	5129.5	5056.6	4935.9	4792.2	4669.4	4659.0	4523.7	4367.5	4159.4
17.5°	5216.9	5244.0	5175.3	5029.5	4906.7	4802.6	4790.1	4677.7	4532.0	4332.1
20°	5235.6	5260.6	5187.8	5060.8	4958.8	4875.5	4869.2	4788.1	4681.9	4490.4
22.5°	5179.4	5210.7	5144.0	5042.0	4971.3	4927.5	4919.2	4873.4	4813.0	4650.7
25°	5121.1	5146.1	5096.2	5006.6	4969.2	4965.0	4971.3	4962.9	4950.4	4813.0
27.5°	5117.0	5144.0	5087.8	5002.5	4981.7	5025.4	5031.6	5071.2	5081.6	4960.8
30°	5152.4	5171.1	5117.0	5027.5	5017.0	5117.0	5119.1	5189.8	5206.5	5085.7
32.5°	5229.4	5250.2	5196.1	5064.9	5050.4	5189.8	5196.1	5289.8	5316.8	5219.0
35°	5410.5	5435.5	5373.0	5169.0	5117.0	5258.5	5277.3	5387.6	5441.7	5360.5
37.5°	5862.2	5789.4	5704.0	5379.3	5268.9	5366.8	5398.0	5527.1	5622.8	5529.2
40°	6984.3	6755.3	6488.9	5737.3	5535.4	5597.9	5622.8	5751.9	5883.1	5791.5
42.5°	8668.5	8397.8	7969.0	6561.7	5937.2	5968.4	5987.2	6099.6	6284.8	6212.0
45°	10169.4	10071.6	9634.4	7969.0	6688.7	6534.7	6557.6	6615.8	6888.6	6861.5
47.5°	11322.7	11266.5	10929.3	9584.4	7958.6	7227.9	7292.4	7319.5	7712.9	7808.7
50°	12209.5	12188.7	11886.9	11020.9	9617.7	8250.0	8272.9	8214.6	8803.8	9041.1
52.5°	13046.4	13117.2	12894.4	12355.3	11389.3	9588.6	9584.4	9309.6	10104.9	10462.9
55°	13802.1	13827.1	13850.0	13716.7	13171.3	11112.5	11072.9	10623.2	11614.2	11984.7
57.5°	14512.0	14522.4	14726.4	14999.1	15026.2	12748.7	12675.9	12136.7	13262.9	13527.3
60°	14988.7	15036.6	15467.5	16225.3	16556.3	14437.0	14397.5	13847.9	14940.8	15063.6
62.5°	14301.7	14593.2	15679.8	17182.9	18001.0	16308.5	16289.8	15773.5	16706.2	16606.2
65°	11576.7	12070.1	13981.1	17830.3	19418.7	18398.6	18425.7	17876.1	18519.4	18194.6
67.5°	8098.1	8618.5	10879.3	17882.3	21002.9	20853.0	21009.2	20147.3	20445.0	19716.4
70°	5599.9	5868.5	7340.3	16762.4	22237.4	24233.8	24229.6	22936.9	22360.2	20409.6
72.5°	3765.9	3905.4	4767.2	13298.3	21329.7	26242.7	26122.0	25068.6	23005.6	19087.7
75°	1588.4	1690.4	2206.7	7473.5	16874.8	24009.0	23682.1	22154.1	20440.8	15030.3
77.5°	503.8	547.5	870.2	2675.1	9295.1	18046.8	17701.2	13835.4	13700.1	7540.1
80°	239.4	279.0	489.2	1074.2	3657.7	9815.5	9767.6	6276.5	5893.5	2036.0
82.5°	104.1	122.8	270.6	574.6	1636.3	3501.5	3572.3	2135.9	1767.4	772.3
85°	33.3	43.7	124.9	264.4	691.1	870.2	859.8	508.0	712.0	420.5
87.5°	0.0	0.0	41.6	60.4	70.8	50.0	56.2	43.7	197.8	116.6
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°
3341.2	0°	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2	3341.2
3382.9	2.5°	3357.9	3324.6	3266.3	3212.2	3164.3	3116.4	3087.3	3045.6	3041.5	3041.5
3437.0	5°	3380.8	3326.7	3222.6	3112.2	2985.2	2864.5	2743.8	2627.2	2589.7	2562.7
3524.4	7.5°	3447.4	3362.0	3197.6	2987.3	2745.8	2481.5	2296.2	2096.3	2019.3	1977.7
3641.0	10°	3543.2	3426.6	3176.8	2808.3	2416.9	2056.8	1792.4	1575.9	1492.6	1457.2
3768.0	12.5°	3649.3	3505.7	3139.3	2585.6	2056.8	1625.9	1367.7	1267.8	1255.3	1255.3
3920.0	15°	3776.3	3601.5	3074.8	2323.2	1680.0	1286.5	1194.9	1199.1	1211.6	1219.9
4067.8	17.5°	3907.5	3703.5	2972.8	2029.7	1346.9	1157.5	1159.5	1165.8	1176.2	1184.5
4228.1	20°	4049.0	3805.5	2837.4	1717.5	1155.4	1120.0	1126.2	1132.5	1140.8	1145.0
4377.9	22.5°	4201.0	3901.2	2677.1	1411.4	1090.8	1088.8	1090.8	1097.1	1107.5	1107.5
4552.8	25°	4363.4	4007.4	2494.0	1188.7	1057.5	1057.5	1061.7	1065.9	1074.2	1074.2
4721.4	27.5°	4529.9	4105.2	2300.3	1072.1	1028.4	1026.3	1026.3	1032.6	1036.7	1038.8
4888.0	30°	4713.1	4219.7	2106.7	1047.1	1005.5	995.1	988.8	993.0	997.2	999.2
5062.8	32.5°	4900.5	4330.1	1934.0	1057.5	982.6	963.9	943.0	938.9	938.9	947.2
5244.0	35°	5108.6	4450.8	1800.7	1092.9	970.1	918.1	884.7	866.0	868.1	880.6
5460.5	37.5°	5358.5	4596.5	1702.9	1124.2	961.8	866.0	811.9	789.0	774.4	789.0
5758.2	40°	5685.3	4811.0	1632.1	1149.1	951.4	805.6	732.8	695.3	668.2	676.6
6220.3	42.5°	6166.2	5148.2	1605.0	1151.2	928.5	734.9	651.6	601.6	562.1	564.2
6915.6	45°	6840.7	5681.1	1744.5	1124.2	878.5	657.8	566.2	499.6	474.6	468.4
7954.4	47.5°	7765.0	6457.6	2067.2	1067.9	805.6	582.9	483.0	426.8	408.0	397.6
9318.0	50°	9003.6	7454.8	2425.3	1005.5	732.8	512.1	414.3	378.9	366.4	356.0
10935.5	52.5°	10440.0	8466.5	2718.8	943.0	659.9	449.7	370.6	349.7	339.3	331.0
12496.8	55°	11757.8	9163.9	2702.1	876.4	589.1	399.7	339.3	326.8	314.3	306.0
13841.6	57.5°	12578.0	9261.8	2227.5	803.6	508.0	360.1	310.2	301.9	287.3	276.9
15005.4	60°	12954.8	8703.9	1561.3	707.8	426.8	322.7	279.0	274.8	256.1	241.5
16106.6	62.5°	13023.5	7667.1	1040.9	589.1	356.0	287.3	247.7	241.5	216.5	191.5
17001.8	65°	12744.6	6184.9	720.3	460.1	303.9	249.8	212.3	199.8	172.8	147.8
17214.1	67.5°	11861.9	4342.6	501.7	331.0	258.1	197.8	168.6	164.5	143.6	122.8
16131.6	70°	10244.4	2475.2	335.2	247.7	204.0	135.3	133.2	137.4	116.6	99.9
13179.6	72.5°	7854.5	1132.5	208.2	181.1	139.5	91.6	106.2	108.3	89.5	74.9
8223.0	75°	4623.6	485.1	131.2	116.6	70.8	60.4	77.0	79.1	60.4	47.9
3006.1	77.5°	1573.8	183.2	83.3	68.7	35.4	33.3	50.0	50.0	33.3	18.7
603.7	80°	358.1	68.7	41.6	27.1	16.7	14.6	16.7	14.6	8.3	2.1
185.3	82.5°	102.0	27.1	16.7	10.4	6.2	6.2	2.1	0.0	0.0	0.0
64.5	85°	29.1	12.5	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
22.9	87.5°	12.5	2.1	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>
3341.2
3051.9
2575.1
1983.9
1457.2
1255.3
1219.9
1184.5
1147.1
1111.7
1076.3
1040.9
1003.4
953.4
886.8
784.8
672.4
555.8
460.1
391.4
353.9
328.9
301.9
274.8
237.3
179.0
139.5
116.6
91.6
66.6
41.6
14.6
0.0
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