

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: P943678

Luminaire Tested: **GALN-SB8B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943678
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-SB8B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA 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: 34476 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

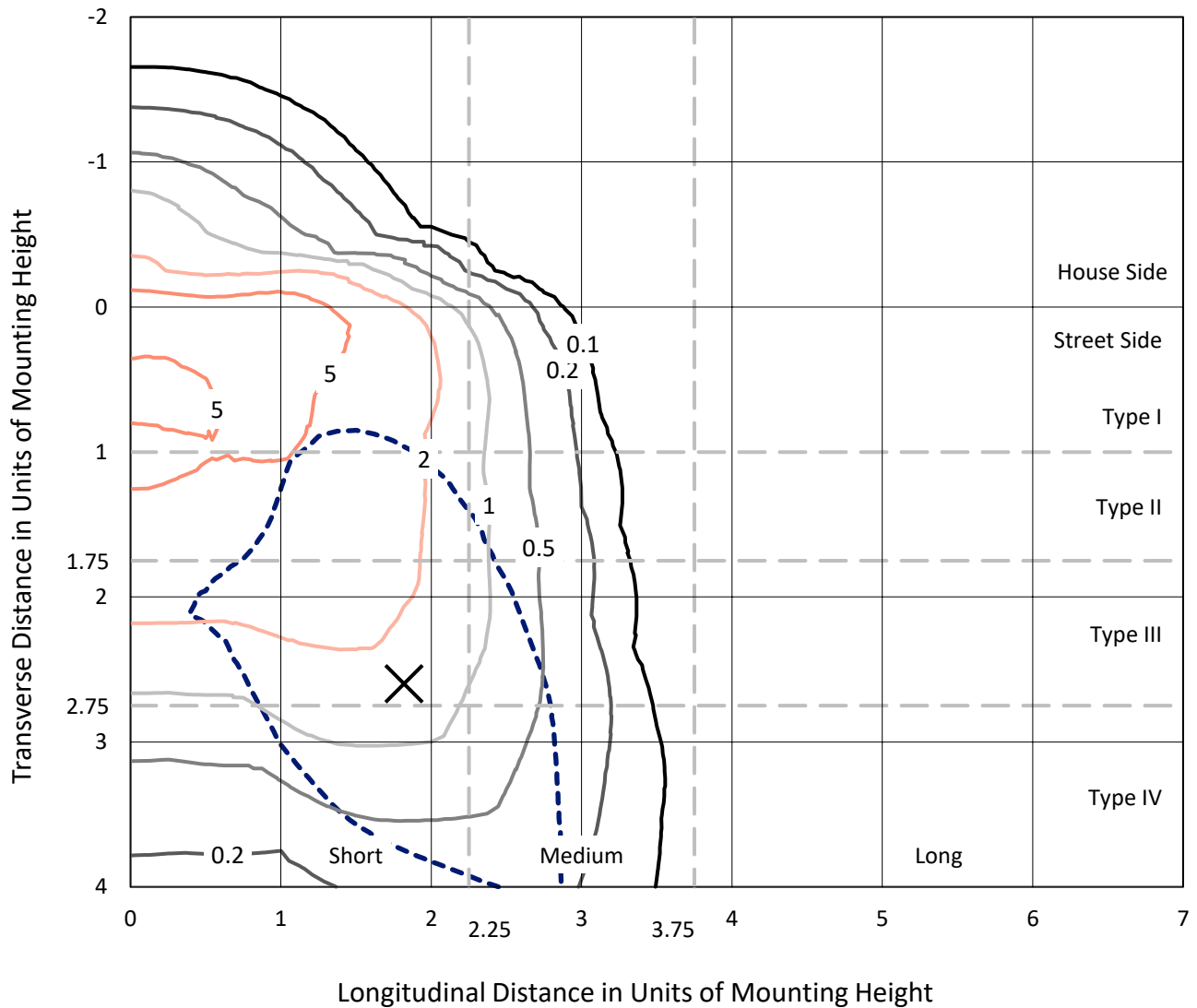
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

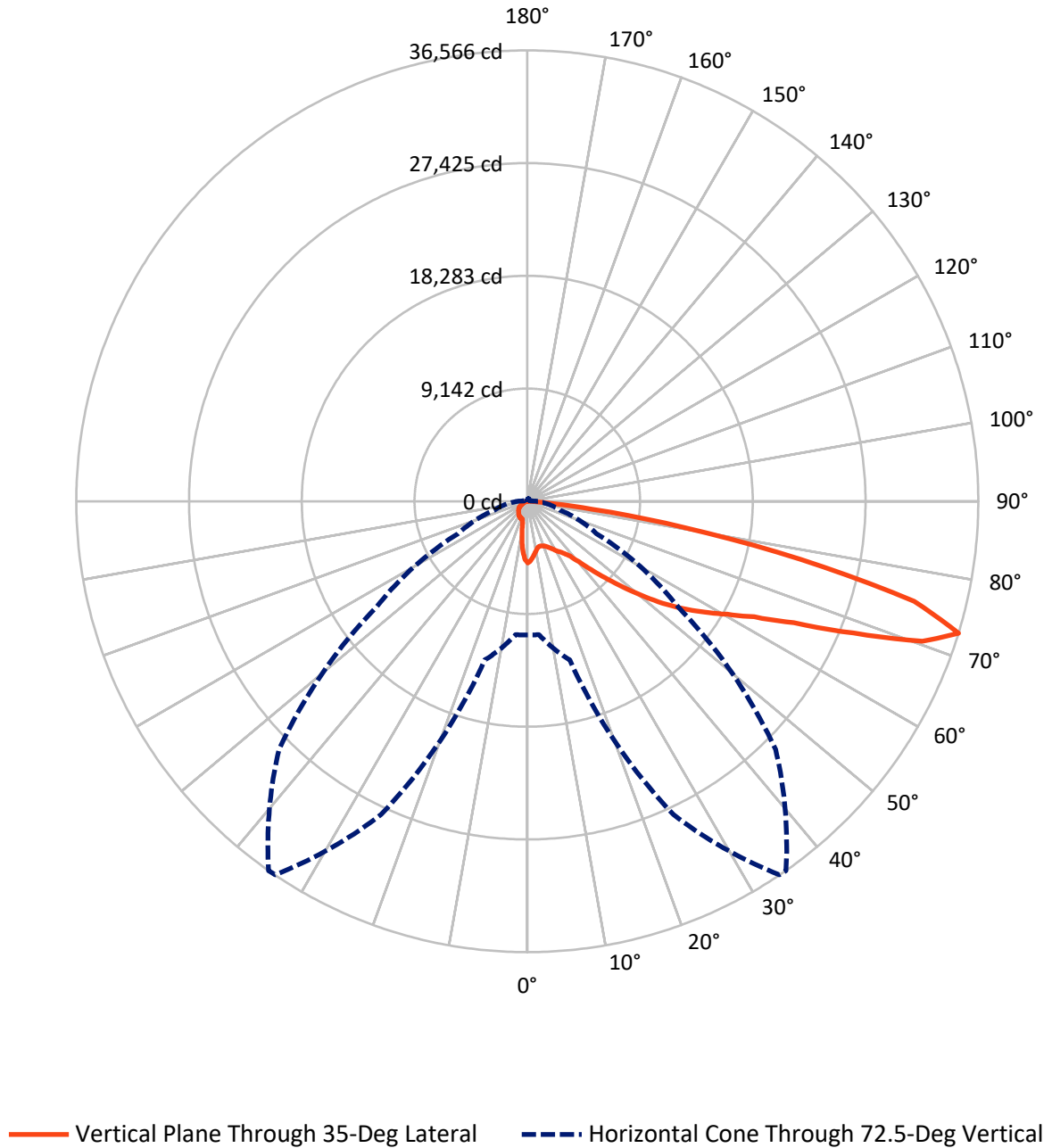
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	3880.1	0.0	3880.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	30595.9	0.0	30595.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	34476.0	0.0	34476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	1.2
10°-20°	960.5	2.8
20°-30°	1560.4	4.5
30°-40°	2603.5	7.6
40°-50°	4925.9	14.3
50°-60°	7827.1	22.7
60°-70°	9682.7	28.1
70°-80°	6018.8	17.5
80°-90°	486.4	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°	34476.0	100.0
0°-180°	34476.0	100.0

Coefficient of Utilization



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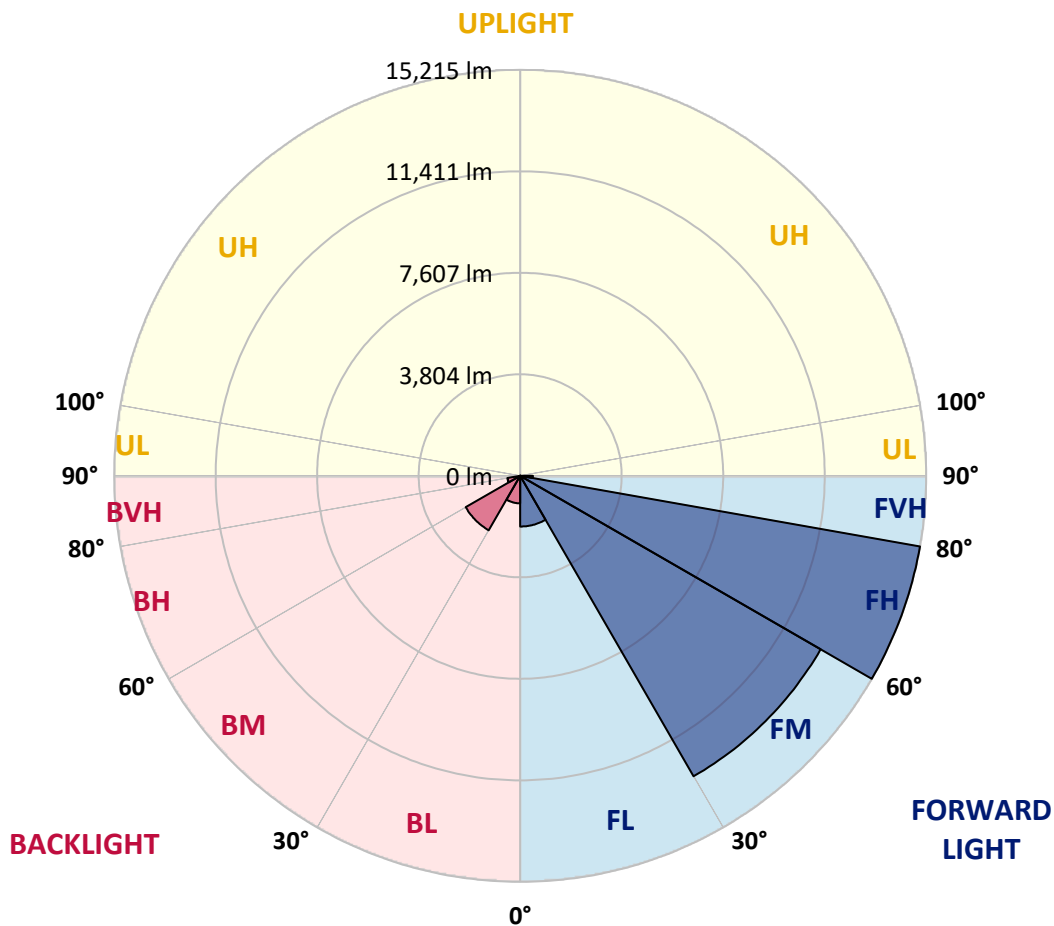
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.5	5.5			
FM (30°-60°)	13000.9	37.7			
FH (60°-80°)	15214.7	44.1			G5
FVH (80°-90°)	479.8	1.4			G3/500
BL (0°-30°)	1031.0	3.0	B3/2500		
BM (30°-60°)	2355.6	6.8	B2/2500		
BH (60°-80°)	486.9	1.4	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7
2.5°	4774.4	4814.8	4822.4	4835.1	4835.1	4850.2	4875.5	4910.8	4968.9	4999.3
5°	4400.6	4430.9	4468.8	4499.1	4557.2	4564.8	4663.3	4759.3	4893.2	4994.2
7.5°	4024.2	4059.5	4110.0	4183.3	4259.1	4281.8	4430.9	4592.5	4804.7	4994.2
10°	3758.9	3761.4	3806.9	3880.2	4001.4	4029.2	4211.1	4441.0	4706.2	4963.9
12.5°	3609.9	3627.6	3647.8	3703.3	3819.5	3837.2	4031.7	4302.0	4607.7	4946.2
15°	3609.9	3622.5	3635.1	3662.9	3756.4	3771.5	3943.3	4213.6	4557.2	4953.8
17.5°	3647.8	3668.0	3657.9	3690.7	3789.2	3799.3	3950.9	4188.4	4554.7	5001.8
20°	3738.7	3753.9	3733.7	3753.9	3852.4	3872.6	4029.2	4236.4	4597.6	5085.1
22.5°	3882.7	3890.3	3842.3	3857.4	3958.5	3983.7	4165.6	4372.8	4701.2	5219.0
25°	4064.6	4079.7	4006.5	4024.2	4120.2	4150.5	4360.1	4577.4	4865.4	5403.4
27.5°	4274.2	4281.8	4218.7	4216.1	4339.9	4382.9	4595.1	4830.0	5085.1	5635.8
30°	4514.2	4537.0	4476.3	4466.2	4622.9	4658.2	4867.9	5140.7	5408.5	5984.5
32.5°	4703.7	4721.4	4686.0	4711.3	4870.4	4898.2	5198.8	5580.3	5916.2	6479.6
35°	4976.5	4986.6	4905.8	4951.3	5133.1	5203.9	5651.0	6196.7	6555.4	7101.0
37.5°	5964.2	5964.2	5620.7	5395.9	5570.2	5633.3	6269.9	6972.2	7343.5	7934.6
40°	7330.9	7308.2	6805.5	6345.7	6323.0	6446.7	7151.5	7949.8	8361.6	8935.0
42.5°	8788.5	8753.1	8068.5	7613.8	7538.0	7581.0	8169.6	9154.8	9574.1	10155.1
45°	10081.9	10071.8	9445.3	8834.0	8697.5	8834.0	9440.2	10564.4	10865.0	11476.3
47.5°	11165.6	11165.6	10708.4	10309.2	10238.5	10319.3	11160.5	12128.1	12100.3	12883.4
50°	12413.5	12403.4	11968.9	11797.1	11870.4	11984.1	13141.0	13775.1	13378.5	14265.2
52.5°	13287.6	13348.2	13199.1	13171.4	13545.2	13742.3	15151.9	15386.8	14522.8	15576.3
55°	13979.7	14050.5	14222.2	14416.7	15136.7	15394.4	17099.5	16915.1	15480.3	16713.0
57.5°	14959.9	14858.8	15124.1	15508.0	16672.6	16983.3	18986.6	18357.5	16250.7	17635.1
60°	16149.7	16164.8	16210.3	16695.3	18206.0	18605.1	20845.8	19721.7	16745.9	18200.9
62.5°	17579.5	17602.2	17695.7	18440.9	20264.8	20641.2	22826.3	20838.2	16973.2	18041.8
65°	17481.0	17577.0	18620.3	21169.2	23394.7	23766.0	25137.7	21621.3	16629.7	16586.7
67.5°	15924.9	16081.5	17827.1	24427.9	28113.5	28527.8	27931.7	21775.4	15146.8	12898.5
70°	13883.7	13939.3	16038.5	27358.2	33577.6	33997.0	30432.6	20080.4	11494.0	7194.5
72.5°	10842.2	10854.9	13317.9	28037.8	36543.3	36566.0	28469.7	14906.8	6181.5	2763.6
75°	7745.2	7669.4	8919.8	22737.9	32150.3	32408.0	21343.5	6992.4	2362.0	1306.0
77.5°	4153.0	4236.4	5047.3	13484.6	22209.9	22649.5	11645.6	2015.9	1202.4	889.2
80°	1283.3	1354.0	2068.9	6173.9	12580.2	12845.5	4317.2	896.8	838.7	634.1
82.5°	404.2	419.3	965.0	2594.4	5221.6	5342.8	1250.4	507.8	573.4	419.3
85°	116.2	118.7	429.4	967.5	1290.9	1316.1	351.1	197.0	328.4	260.2
87.5°	12.6	40.4	161.7	161.7	113.7	111.2	37.9	42.9	93.5	32.8
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°
4996.7	0°	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7
5019.5	2.5°	5006.8	5009.4	4976.5	4920.9	4860.3	4809.8	4746.6	4696.1	4660.8	4650.6
5064.9	5°	5042.2	5024.5	4931.0	4761.8	4559.7	4385.4	4190.9	4036.8	3935.7	3892.8
5112.9	7.5°	5095.2	5044.7	4840.1	4506.7	4120.2	3776.6	3428.0	3157.7	2985.9	2900.0
5158.4	10°	5140.7	5039.7	4688.5	4137.8	3546.7	3026.3	2556.5	2230.6	2048.7	1962.8
5211.5	12.5°	5183.7	5037.1	4491.5	3700.8	2900.0	2263.4	1826.4	1664.7	1614.2	1596.5
5297.3	15°	5264.5	5044.7	4243.9	3200.6	2255.9	1710.2	1551.1	1548.5	1558.6	1553.6
5428.7	17.5°	5375.7	5052.3	3963.5	2670.1	1740.5	1508.1	1500.5	1523.3	1538.4	1530.8
5592.9	20°	5519.6	5082.6	3665.4	2144.7	1495.5	1457.6	1475.3	1495.5	1508.1	1495.5
5812.7	22.5°	5721.7	5135.7	3339.6	1722.8	1417.2	1427.3	1442.4	1465.2	1477.8	1460.1
6093.1	25°	5969.3	5219.0	3018.8	1498.0	1379.3	1391.9	1414.6	1439.9	1455.1	1437.4
6446.7	27.5°	6290.1	5352.9	2723.2	1447.5	1341.4	1349.0	1381.8	1419.7	1439.9	1417.2
6949.4	30°	6754.9	5572.7	2468.1	1470.2	1318.7	1301.0	1346.4	1399.5	1422.2	1402.0
7634.0	32.5°	7371.3	5883.4	2311.4	1505.6	1308.5	1245.4	1288.3	1356.5	1394.4	1381.8
8528.3	35°	8179.7	6355.8	2250.8	1546.0	1301.0	1187.3	1217.6	1290.9	1356.5	1369.2
9655.0	37.5°	9159.8	7012.6	2268.5	1563.7	1278.2	1139.3	1154.5	1217.6	1303.5	1343.9
10923.1	40°	10273.9	7778.0	2369.5	1546.0	1253.0	1098.9	1101.4	1149.4	1225.2	1285.8
12287.2	42.5°	11423.3	8672.3	2556.5	1480.3	1230.2	1063.5	1055.9	1088.8	1139.3	1182.2
13648.8	45°	12517.1	9591.8	2740.9	1389.4	1202.4	1028.1	1010.5	1023.1	1033.2	1050.9
14975.0	47.5°	13472.0	10238.5	2687.8	1306.0	1164.6	987.7	957.4	952.4	922.0	919.5
16159.8	50°	14131.3	10380.0	2387.2	1222.7	1109.0	942.3	894.3	863.9	810.9	785.6
17046.5	52.5°	14341.0	9821.7	1950.2	1139.3	1018.0	881.6	813.4	765.4	699.7	677.0
17556.8	55°	14063.1	8727.9	1558.6	1038.2	891.7	800.8	725.0	661.9	608.8	581.0
17612.3	57.5°	13383.6	7335.9	1232.8	919.5	757.8	709.8	634.1	570.9	525.4	497.7
16995.9	60°	12256.9	5825.3	975.1	778.1	646.7	611.3	533.0	492.6	452.2	419.3
15404.5	62.5°	10546.7	4158.0	765.4	616.4	540.6	500.2	454.7	424.4	376.4	330.9
12542.3	65°	8230.2	2543.8	591.1	452.2	434.5	414.3	386.5	358.7	300.6	255.1
8182.2	67.5°	5191.2	1205.0	421.9	341.0	343.6	333.5	320.8	298.1	255.1	214.7
3665.4	70°	2286.2	583.5	277.9	260.2	255.1	255.1	265.2	257.7	217.2	179.4
1273.2	72.5°	778.1	313.2	207.1	197.0	184.4	181.9	222.3	214.7	174.3	138.9
634.1	75°	406.7	209.7	151.6	141.5	111.2	133.9	176.8	166.7	123.8	90.9
419.3	77.5°	265.2	149.0	103.6	90.9	63.2	88.4	131.4	116.2	73.3	45.5
275.4	80°	166.7	98.5	60.6	42.9	30.3	48.0	70.7	50.5	27.8	10.1
161.7	82.5°	88.4	50.5	22.7	15.2	12.6	15.2	17.7	12.6	5.1	0.0
83.4	85°	35.4	17.7	7.6	5.1	2.5	0.0	5.1	2.5	0.0	0.0
15.2	87.5°	12.6	2.5	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>
4996.7
4668.3
3908.0
2912.7
1965.3
1591.5
1551.1
1528.3
1493.0
1457.6
1434.9
1417.2
1399.5
1381.8
1369.2
1354.0
1306.0
1199.9
1061.0
917.0
788.2
674.5
581.0
492.6
411.8
323.3
247.6
209.7
171.8
131.4
83.4
40.4
7.6
0.0
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