

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: P941294

Luminaire Tested: **GALN-SB4D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29781 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

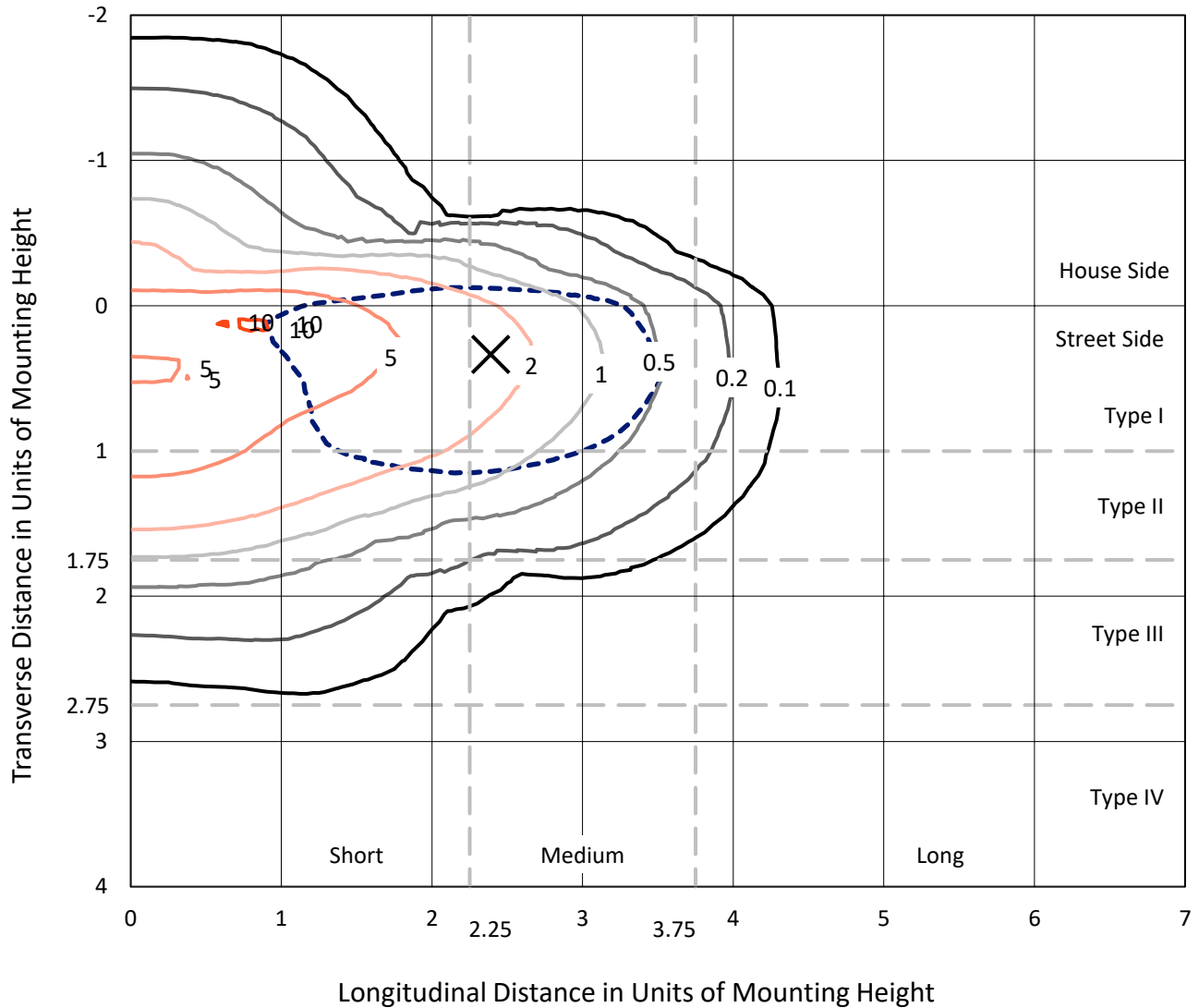
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

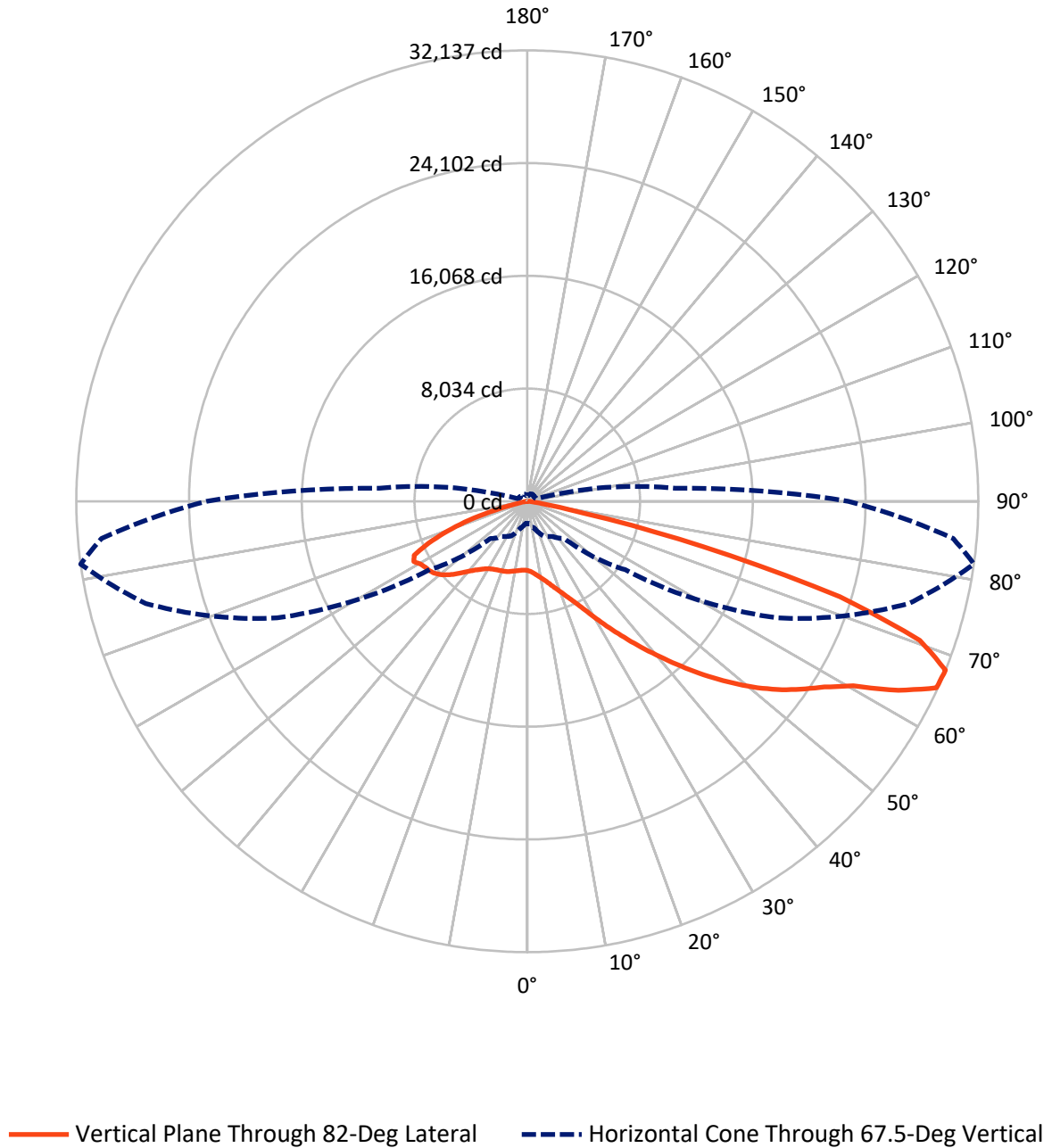
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5394.6	0.0	5394.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24386.4	0.0	24386.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	29781.0	0.0	29781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.6	1.5
10°-20°	1142.2	3.8
20°-30°	1829.5	6.1
30°-40°	3235.1	10.9
40°-50°	5668.2	19.0
50°-60°	7559.8	25.4
60°-70°	7037.8	23.6
70°-80°	2701.1	9.1
80°-90°	167.8	0.6
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°	29781.0	100.0
0°-180°	29781.0	100.0

Coefficient of Utilization



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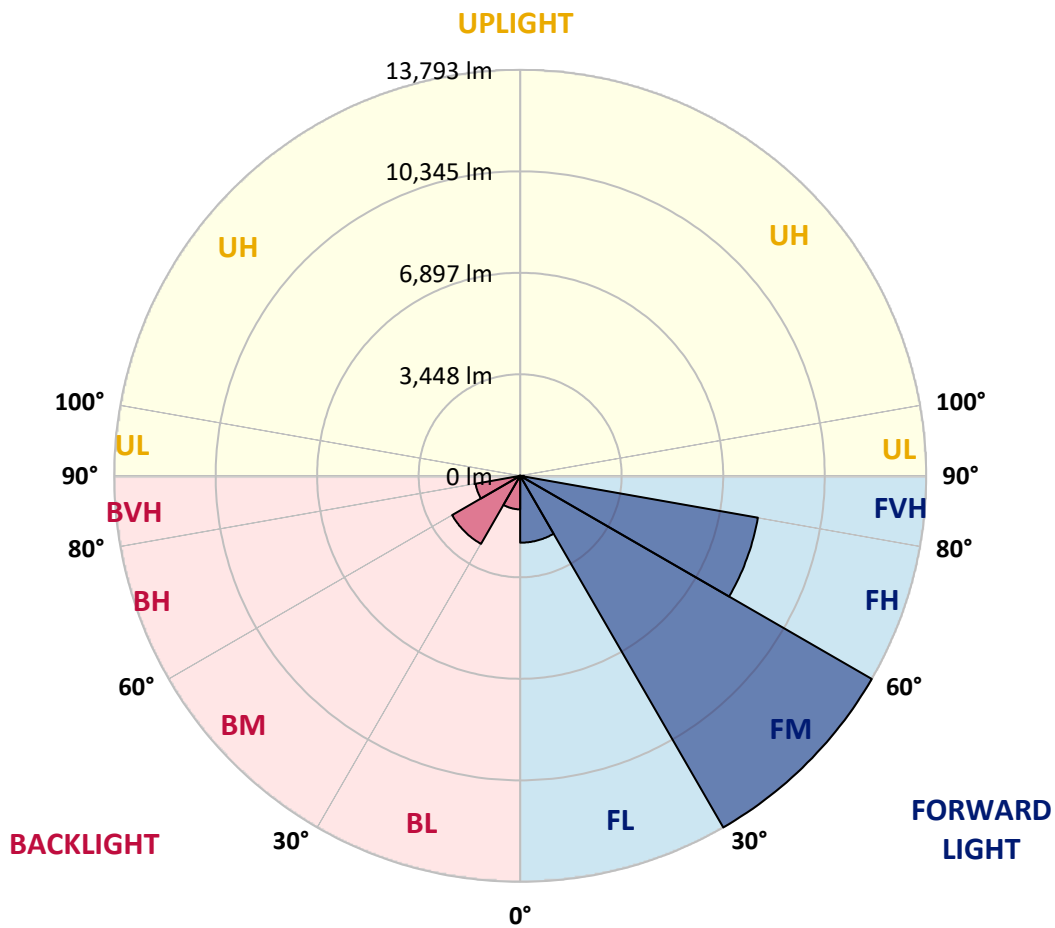
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.0	7.6			
FM (30°-60°)	13793.3	46.3			
FH (60°-80°)	8199.2	27.5			G4/12000
FVH (80°-90°)	122.0	0.4			G2/225
BL (0°-30°)	1139.3	3.8	B3/2500		
BM (30°-60°)	2669.7	9.0	B3/5000		
BH (60°-80°)	1539.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	45.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7
2.5°	5214.6	5244.6	5227.5	5218.9	5203.9	5182.4	5165.3	5111.7	5055.9	5019.5
5°	5319.7	5349.7	5347.5	5356.1	5366.8	5373.3	5369.0	5308.9	5229.6	5167.4
7.5°	5229.6	5263.9	5291.8	5334.7	5409.7	5489.0	5527.6	5514.8	5433.3	5347.5
10°	4974.4	5010.9	5077.4	5178.1	5336.8	5508.3	5652.0	5718.5	5667.0	5572.7
12.5°	4507.0	4543.5	4674.3	4893.0	5158.8	5456.9	5731.3	5909.3	5922.2	5827.8
15°	3981.7	4018.1	4157.5	4432.0	4837.2	5315.4	5774.2	6110.8	6224.5	6143.0
17.5°	3655.8	3687.9	3793.0	4013.9	4436.3	5032.3	5759.2	6325.3	6584.7	6520.4
20°	3557.2	3585.0	3634.3	3788.7	4140.4	4738.6	5660.6	6526.8	6972.8	6936.3
22.5°	3662.2	3687.9	3703.0	3771.6	3992.4	4545.6	5536.2	6732.7	7423.1	7427.4
25°	3904.5	3930.2	3913.1	3956.0	4052.5	4485.6	5489.0	6974.9	7989.1	8036.3
27.5°	4303.3	4305.5	4264.7	4262.6	4277.6	4575.6	5538.4	7234.4	8703.1	8791.0
30°	5103.1	5070.9	4914.4	4745.0	4667.8	4845.8	5675.6	7541.0	9545.8	9702.3
32.5°	6336.0	6288.8	6001.5	5596.2	5188.9	5281.1	5922.2	7890.5	10463.5	10746.5
35°	7673.9	7661.1	7360.9	6758.4	6046.5	5900.7	6323.1	8349.3	11464.8	11915.1
37.5°	8917.5	8911.1	8739.6	8029.9	7163.6	6764.8	6966.4	8949.7	12536.9	13188.7
40°	10053.9	10073.2	9901.7	9267.0	8394.4	7873.3	7841.2	9691.6	13729.0	14576.0
42.5°	11036.0	11057.4	10883.7	10414.2	9610.1	9099.8	8915.4	10600.7	14893.3	16066.2
45°	11702.8	11835.7	11810.0	11434.8	10858.0	10328.4	10206.2	11741.4	16220.5	17646.4
47.5°	11891.5	12013.7	12206.7	12258.1	11906.5	11385.5	11531.3	13115.8	17562.8	19228.8
50°	11426.2	11539.8	11940.8	12474.7	12719.1	12558.3	12819.9	14588.8	18937.2	20806.9
52.5°	10508.5	10624.3	11130.3	11975.1	12972.1	13478.2	14112.8	16040.4	20268.7	22301.4
55°	9181.3	9303.5	9953.2	10909.5	12489.7	13857.7	15191.3	17489.9	21488.7	23645.8
57.5°	7375.9	7466.0	8141.4	9479.3	11276.1	13480.3	15986.8	19072.3	22638.0	24966.6
60°	4807.2	4886.5	5671.3	7163.6	9264.9	12219.5	16145.5	20836.9	24164.6	26684.0
62.5°	3196.9	3250.5	3715.8	4811.5	6524.7	9798.8	15217.1	22245.6	26403.1	29673.0
65°	2193.5	2247.1	2712.4	3475.7	4215.4	6481.8	12547.6	22059.1	28431.5	32046.6
67.5°	1565.2	1610.3	2004.8	2725.2	3051.1	3765.1	8505.9	19674.8	28139.9	32136.6
70°	1121.4	1147.1	1473.0	2122.7	2425.0	2262.1	4730.0	15047.7	24638.5	29675.1
72.5°	784.8	793.3	1022.8	1616.7	1953.3	1651.0	2251.4	10032.5	18634.9	23292.0
75°	531.8	542.5	688.3	1185.7	1567.4	1260.8	1192.2	5379.7	10939.5	12892.8
77.5°	325.9	330.2	443.8	810.5	1172.9	960.6	767.6	2279.2	4232.6	4155.4
80°	184.4	184.4	283.0	503.9	799.8	619.7	538.2	969.2	1340.1	1177.1
82.5°	102.9	105.1	205.8	313.0	529.6	366.7	295.9	448.1	578.9	512.5
85°	42.9	47.2	126.5	147.9	253.0	182.3	120.1	188.7	214.4	190.8
87.5°	4.3	6.4	38.6	27.9	30.0	36.5	17.2	36.5	30.0	30.0
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°
4933.7	0°	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7	4933.7
5006.6	2.5°	4965.9	4933.7	4852.2	4757.9	4633.5	4573.5	4492.0	4436.3	4389.1	4393.4
5131.0	5°	5062.4	4980.9	4798.6	4571.3	4288.3	4086.8	3872.3	3724.4	3604.3	3578.6
5302.5	7.5°	5195.3	5066.6	4747.2	4337.6	3859.5	3497.1	3173.4	2965.4	2817.4	2770.3
5510.5	10°	5366.8	5180.3	4680.7	4043.9	3355.6	2894.6	2547.3	2384.3	2283.5	2249.2
5754.9	12.5°	5566.2	5311.1	4592.8	3685.8	2836.7	2392.9	2172.0	2090.6	2058.4	2047.7
6055.1	15°	5817.1	5474.0	4459.8	3261.3	2397.2	2086.3	1991.9	1981.2	1985.5	1981.2
6415.3	17.5°	6115.1	5652.0	4243.3	2823.9	2101.3	1929.7	1895.4	1904.0	1914.7	1912.6
6818.4	20°	6441.0	5827.8	3966.7	2435.8	1899.7	1818.2	1798.9	1807.5	1816.1	1811.8
7283.7	22.5°	6812.0	6016.5	3660.1	2133.4	1764.6	1715.3	1693.9	1696.0	1696.0	1687.5
7873.3	25°	7255.8	6224.5	3338.5	1919.0	1661.7	1623.1	1597.4	1588.8	1576.0	1550.2
8589.5	27.5°	7785.4	6445.3	3029.7	1768.9	1580.2	1543.8	1513.8	1492.3	1460.2	1417.3
9449.3	30°	8381.5	6713.4	2768.1	1674.6	1515.9	1479.5	1445.2	1413.0	1365.8	1312.2
10437.8	32.5°	9082.6	7000.7	2577.3	1612.4	1458.0	1419.4	1378.7	1340.1	1288.6	1235.0
11548.4	35°	9918.9	7348.0	2465.8	1569.5	1413.0	1361.5	1316.5	1273.6	1235.0	1187.9
12755.6	37.5°	10825.8	7716.8	2431.5	1548.1	1383.0	1303.6	1252.2	1222.2	1217.9	1190.0
14061.4	40°	11818.6	8154.2	2457.2	1535.2	1350.8	1247.9	1192.2	1185.7	1196.4	1147.1
15457.2	42.5°	12869.2	8673.1	2500.1	1520.2	1305.8	1192.2	1138.5	1138.5	1130.0	1061.4
16932.4	45°	14005.6	9271.3	2543.0	1483.8	1252.2	1136.4	1095.7	1080.7	1044.2	977.7
18416.2	47.5°	15150.6	9880.3	2575.1	1417.3	1187.9	1089.2	1052.8	1018.5	964.9	904.8
19872.0	50°	16237.7	10427.0	2540.8	1318.7	1115.0	1044.2	1005.6	958.4	900.5	859.8
21250.7	52.5°	17209.0	10900.9	2395.0	1202.9	1037.8	997.0	962.7	913.4	866.2	823.4
22494.3	55°	18053.8	11284.7	2137.7	1093.5	969.2	956.3	922.0	859.8	795.5	759.0
23727.2	57.5°	18864.3	11576.3	1816.1	1003.5	907.0	911.3	859.8	804.1	744.0	705.4
25389.0	60°	19942.8	11966.5	1490.2	919.8	840.5	853.4	797.6	756.9	681.8	632.5
28238.5	62.5°	21666.7	12573.3	1183.6	816.9	763.3	767.6	744.0	694.7	604.7	546.8
30350.5	65°	23034.7	12350.3	932.7	705.4	675.4	681.8	681.8	628.2	531.8	465.3
30464.2	67.5°	22880.3	10575.0	744.0	596.1	591.8	596.1	611.1	566.1	471.7	418.1
28144.2	70°	21077.1	8411.5	596.1	495.3	514.6	503.9	546.8	516.7	424.5	370.9
21818.9	72.5°	17198.3	6059.4	454.6	409.5	394.5	411.7	493.2	465.3	353.8	293.7
11557.0	75°	10049.7	3233.4	338.8	323.8	285.2	343.1	437.4	396.7	270.2	216.6
3542.1	77.5°	3272.0	1127.8	248.7	238.0	212.3	276.6	373.1	334.5	220.8	171.5
1037.8	80°	877.0	340.9	169.4	156.5	137.2	205.8	295.9	265.9	158.7	111.5
446.0	82.5°	351.6	143.7	98.6	87.9	75.0	141.5	233.7	214.4	117.9	70.8
139.4	85°	113.6	47.2	36.5	27.9	34.3	87.9	139.4	145.8	83.6	36.5
21.4	87.5°	15.0	6.4	6.4	8.6	6.4	15.0	42.9	40.7	23.6	4.3
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°
4933.7
4350.5
3520.7
2723.1
2223.5
2041.2
1979.1
1908.3
1809.7
1683.2
1545.9
1413.0
1307.9
1237.2
1183.6
1187.9
1149.3
1061.4
975.6
902.7
853.4
819.1
754.7
701.1
626.1
542.5
458.8
409.5
364.5
287.3
210.1
165.1
109.4
70.8
27.9
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