

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: P943034

Luminaire Tested: **GALN-SB7B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943034
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-SB7B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA 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: 25428 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

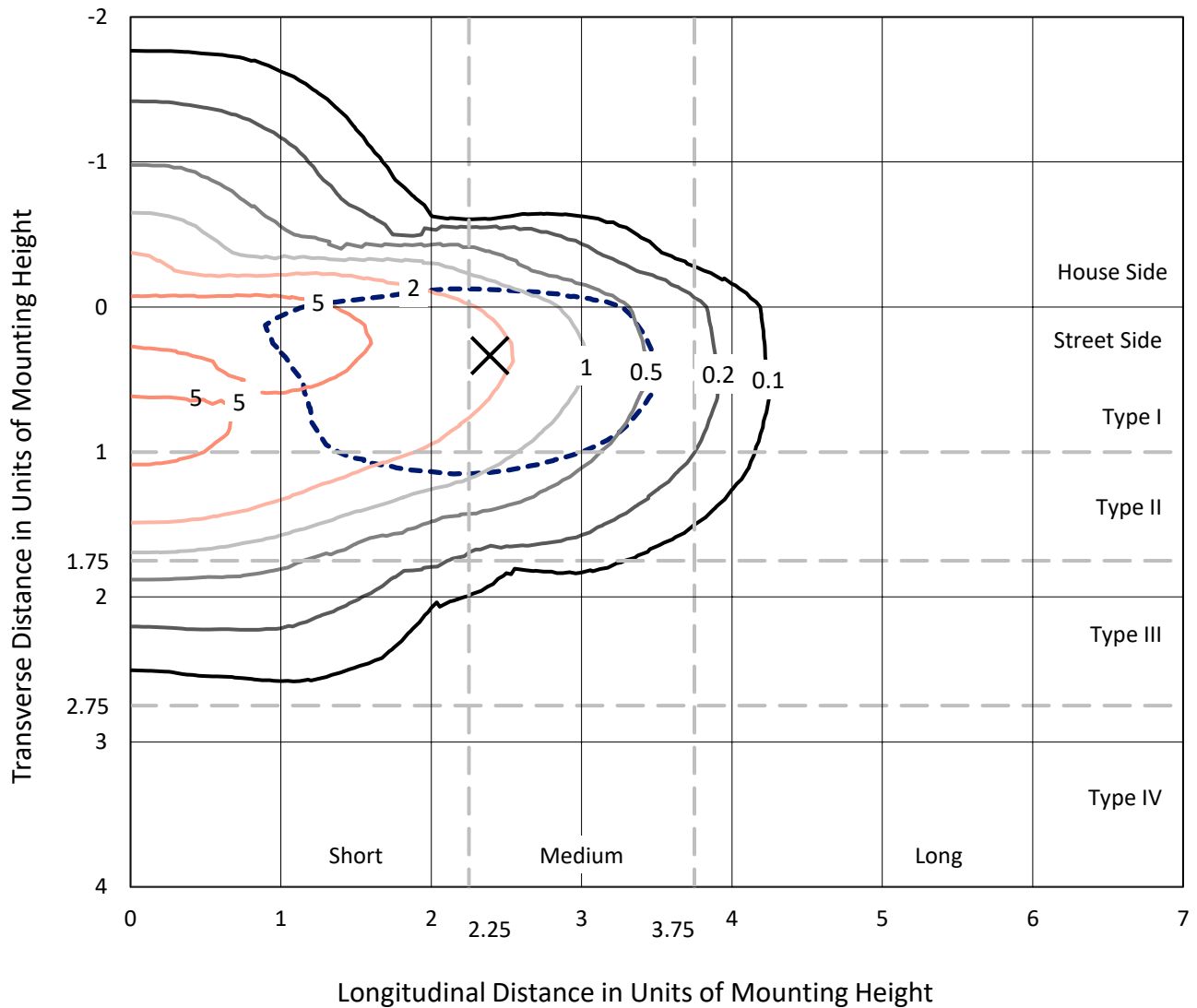
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

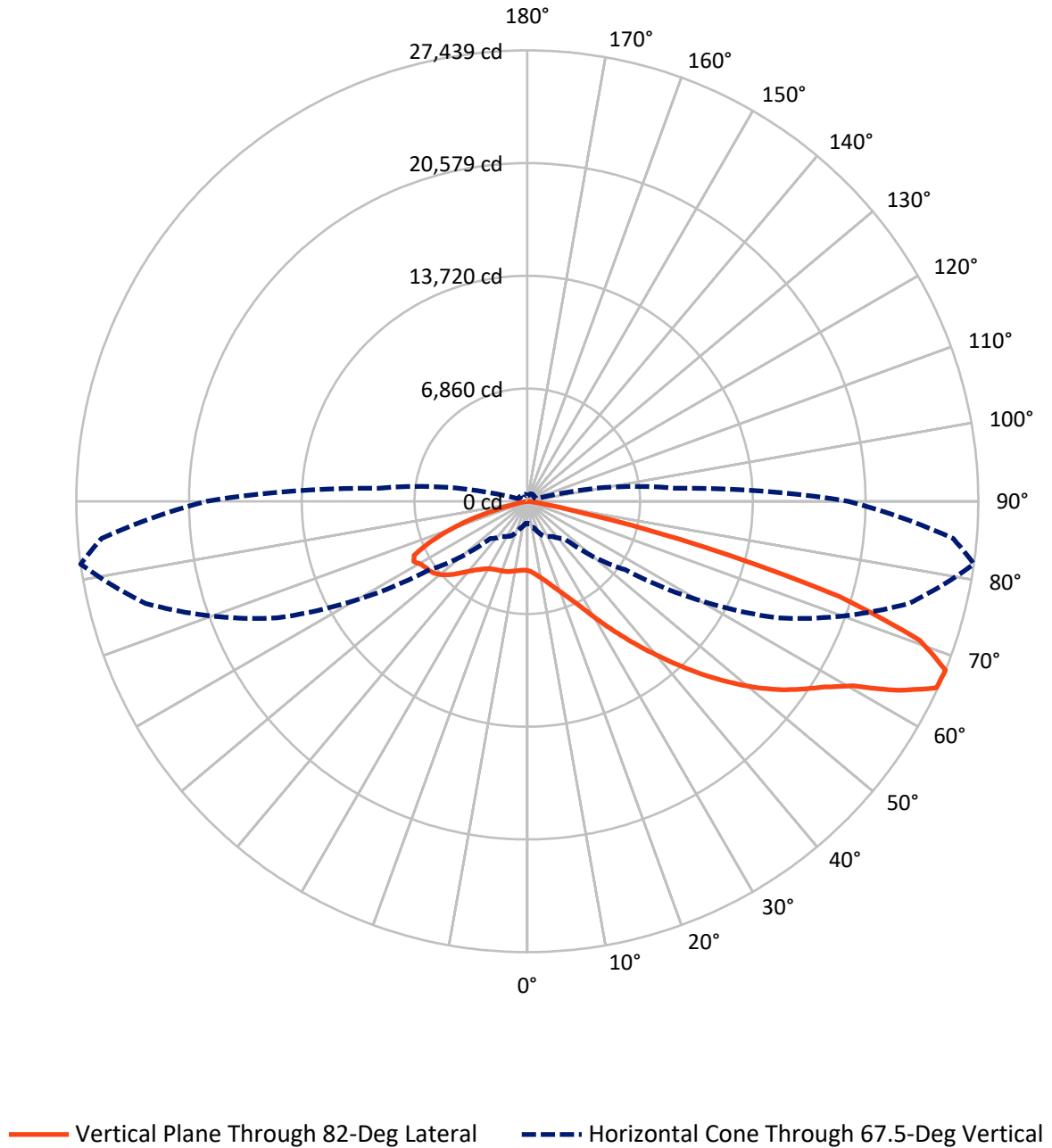
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	4606.1	0.0	4606.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20821.9	0.0	20821.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	25428.0	0.0	25428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	1.5
10°-20°	975.3	3.8
20°-30°	1562.1	6.1
30°-40°	2762.2	10.9
40°-50°	4839.7	19.0
50°-60°	6454.8	25.4
60°-70°	6009.1	23.6
70°-80°	2306.3	9.1
80°-90°	143.2	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°	25428.0	100.0
0°-180°	25428.0	100.0

Coefficient of Utilization



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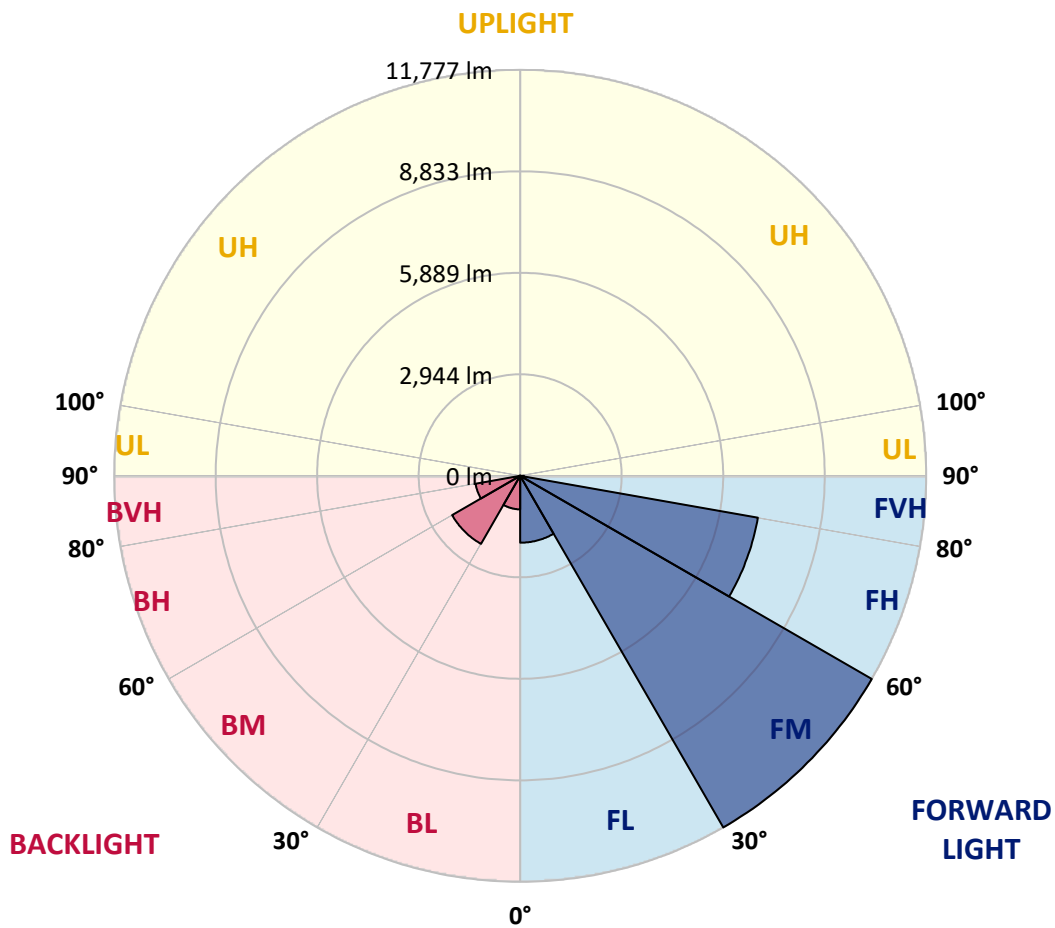
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.9	7.6			
FM (30°-60°)	11777.2	46.3			
FH (60°-80°)	7000.7	27.5			G3/7500
FVH (80°-90°)	104.1	0.4			G2/225
BL (0°-30°)	972.8	3.8	B2/1000		
BM (30°-60°)	2279.5	9.0	B2/2500		
BH (60°-80°)	1314.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	39.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6
2.5°	4452.4	4478.0	4463.4	4456.0	4443.2	4424.9	4410.3	4364.5	4316.9	4285.8
5°	4542.1	4567.7	4565.9	4573.2	4582.4	4587.9	4584.2	4532.9	4465.2	4412.1
7.5°	4465.2	4494.5	4518.3	4554.9	4619.0	4686.7	4719.7	4708.7	4639.1	4565.9
10°	4247.3	4278.5	4335.2	4421.3	4556.7	4703.2	4825.9	4882.6	4838.7	4758.1
12.5°	3848.2	3879.4	3991.0	4177.8	4404.8	4659.3	4893.6	5045.6	5056.5	4976.0
15°	3399.7	3430.8	3549.8	3784.2	4130.2	4538.4	4930.2	5217.6	5314.7	5245.1
17.5°	3121.4	3148.9	3238.6	3427.2	3787.8	4296.8	4917.4	5400.7	5622.2	5567.3
20°	3037.2	3061.0	3103.1	3234.9	3535.2	4046.0	4833.2	5572.8	5953.6	5922.5
22.5°	3126.9	3148.9	3161.7	3220.3	3408.9	3881.2	4727.0	5748.6	6338.1	6341.7
25°	3333.8	3355.8	3341.1	3377.7	3460.1	3829.9	4686.7	5955.4	6821.4	6861.7
27.5°	3674.3	3676.1	3641.4	3639.5	3652.3	3906.8	4728.8	6177.0	7431.0	7506.1
30°	4357.2	4329.7	4196.1	4051.5	3985.5	4137.5	4846.0	6438.8	8150.5	8284.2
32.5°	5409.9	5369.6	5124.3	4778.3	4430.4	4509.1	5056.5	6737.2	8934.1	9175.7
35°	6552.3	6541.3	6285.0	5770.5	5162.7	5038.2	5398.9	7128.9	9789.0	10173.5
37.5°	7614.1	7608.6	7462.1	6856.2	6116.5	5776.0	5948.1	7641.6	10704.4	11261.0
40°	8584.4	8600.9	8454.4	7912.5	7167.4	6722.5	6695.1	8275.0	11722.3	12445.4
42.5°	9422.9	9441.2	9292.9	8892.0	8205.4	7769.7	7612.3	9051.2	12716.4	13717.8
45°	9992.2	10105.7	10083.8	9763.4	9270.9	8818.7	8714.4	10025.2	13849.6	15067.1
47.5°	10153.3	10257.7	10422.5	10466.4	10166.2	9721.3	9845.8	11198.7	14995.7	16418.2
50°	9756.1	9853.1	10195.5	10651.3	10860.0	10722.7	10946.1	12456.4	16169.2	17765.6
52.5°	8972.5	9071.4	9503.4	10224.7	11076.0	11508.1	12050.0	13695.9	17306.1	19041.6
55°	7839.3	7943.6	8498.3	9314.9	10664.1	11832.1	12970.9	14933.4	18347.8	20189.5
57.5°	6297.8	6374.7	6951.4	8093.8	9627.9	11509.9	13650.1	16284.5	19329.1	21317.3
60°	4104.5	4172.3	4842.3	6116.5	7910.7	10433.5	13785.6	17791.2	20632.6	22783.7
62.5°	2729.7	2775.4	3172.7	4108.2	5571.0	8366.5	12992.8	18994.0	22543.9	25335.8
65°	1872.9	1918.6	2315.9	2967.6	3599.3	5534.4	10713.6	18834.8	24275.8	27362.4
67.5°	1336.4	1374.9	1711.8	2326.9	2605.2	3214.8	7262.6	16799.0	24026.8	27439.3
70°	957.5	979.5	1257.7	1812.4	2070.6	1931.4	4038.6	12848.2	21037.2	25337.6
72.5°	670.1	677.4	873.3	1380.4	1667.8	1409.7	1922.3	8566.1	15911.1	19887.5
75°	454.0	463.2	587.7	1012.4	1338.3	1076.5	1017.9	4593.4	9340.5	11008.3
77.5°	278.3	281.9	379.0	692.0	1001.4	820.2	655.4	1946.1	3613.9	3548.0
80°	157.4	157.4	241.7	430.2	682.9	529.1	459.5	827.5	1144.2	1005.1
82.5°	87.9	89.7	175.8	267.3	452.2	313.1	252.6	382.6	494.3	437.5
85°	36.6	40.3	108.0	126.3	216.0	155.6	102.5	161.1	183.1	162.9
87.5°	3.7	5.5	33.0	23.8	25.6	31.1	14.6	31.1	25.6	25.6
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°
4212.6	0°	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6	4212.6
4274.8	2.5°	4240.0	4212.6	4143.0	4062.4	3956.3	3905.0	3835.4	3787.8	3747.5	3751.2
4381.0	5°	4322.4	4252.8	4097.2	3903.2	3661.5	3489.4	3306.3	3180.0	3077.5	3055.5
4527.4	7.5°	4435.9	4326.1	4053.3	3703.6	3295.4	2986.0	2709.5	2531.9	2405.6	2365.3
4705.0	10°	4582.4	4423.1	3996.5	3452.8	2865.1	2471.5	2174.9	2035.8	1949.8	1920.5
4913.7	12.5°	4752.6	4534.8	3921.5	3147.1	2422.1	2043.1	1854.6	1785.0	1757.5	1748.4
5170.0	15°	4966.8	4673.9	3808.0	2784.6	2046.8	1781.3	1700.8	1691.6	1695.3	1691.6
5477.6	17.5°	5221.3	4825.9	3623.1	2411.1	1794.1	1647.7	1618.4	1625.7	1634.9	1633.0
5821.8	20°	5499.6	4976.0	3386.9	2079.7	1622.0	1552.5	1536.0	1543.3	1550.6	1547.0
6219.1	22.5°	5816.3	5137.1	3125.1	1821.6	1506.7	1464.6	1446.3	1448.1	1448.1	1440.8
6722.5	25°	6195.3	5314.7	2850.5	1638.5	1418.8	1385.9	1363.9	1356.6	1345.6	1323.6
7334.0	27.5°	6647.5	5503.2	2586.9	1510.4	1349.3	1318.1	1292.5	1274.2	1246.7	1210.1
8068.1	30°	7156.4	5732.1	2363.5	1429.8	1294.3	1263.2	1233.9	1206.5	1166.2	1120.4
8912.1	32.5°	7755.1	5977.4	2200.6	1376.7	1244.9	1212.0	1177.2	1144.2	1100.3	1054.5
9860.4	35°	8469.1	6274.0	2105.4	1340.1	1206.5	1162.5	1124.1	1087.5	1054.5	1014.2
10891.1	37.5°	9243.5	6588.9	2076.1	1321.8	1180.8	1113.1	1069.2	1043.5	1039.9	1016.1
12006.1	40°	10091.1	6962.3	2098.0	1310.8	1153.4	1065.5	1017.9	1012.4	1021.6	979.5
13197.9	42.5°	10988.2	7405.4	2134.7	1298.0	1114.9	1017.9	972.1	972.1	964.8	906.2
14457.4	45°	11958.5	7916.2	2171.3	1266.9	1069.2	970.3	935.5	922.7	891.6	834.8
15724.3	47.5°	12936.1	8436.1	2198.7	1210.1	1014.2	930.0	898.9	869.6	823.8	772.6
16967.4	50°	13864.3	8902.9	2169.4	1125.9	952.0	891.6	858.6	818.3	768.9	734.1
18144.6	52.5°	14693.6	9307.5	2044.9	1027.1	886.1	851.3	822.0	779.9	739.6	703.0
19206.4	55°	15414.9	9635.2	1825.3	933.7	827.5	816.5	787.2	734.1	679.2	648.1
20259.1	57.5°	16107.0	9884.2	1550.6	856.8	774.4	778.1	734.1	686.5	635.3	602.3
21677.9	60°	17027.8	10217.4	1272.4	785.4	717.7	728.6	681.0	646.3	582.2	540.1
24111.0	62.5°	18499.7	10735.5	1010.6	697.5	651.7	655.4	635.3	593.2	516.3	466.8
25914.3	65°	19667.8	10545.1	796.4	602.3	576.7	582.2	582.2	536.4	454.0	397.3
26011.3	67.5°	19535.9	9029.3	635.3	508.9	505.3	508.9	521.8	483.3	402.8	357.0
24030.4	70°	17996.3	7182.0	508.9	422.9	439.4	430.2	466.8	441.2	362.5	316.7
18629.7	72.5°	14684.5	5173.7	388.1	349.7	336.9	351.5	421.1	397.3	302.1	250.8
9867.8	75°	8580.7	2760.8	289.3	276.4	243.5	292.9	373.5	338.7	230.7	184.9
3024.4	77.5°	2793.7	963.0	212.4	203.2	181.2	236.2	318.6	285.6	188.6	146.5
886.1	80°	748.8	291.1	144.6	133.6	117.2	175.8	252.6	227.0	135.5	95.2
380.8	82.5°	300.2	122.7	84.2	75.1	64.1	120.8	199.6	183.1	100.7	60.4
119.0	85°	97.0	40.3	31.1	23.8	29.3	75.1	119.0	124.5	71.4	31.1
18.3	87.5°	12.8	5.5	5.5	7.3	5.5	12.8	36.6	34.8	20.1	3.7
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>
4212.6
3714.6
3006.1
2325.1
1898.5
1742.9
1689.8
1629.4
1545.2
1437.1
1320.0
1206.5
1116.8
1056.3
1010.6
1014.2
981.3
906.2
833.0
770.7
728.6
699.3
644.4
598.7
534.6
463.2
391.8
349.7
311.2
245.3
179.4
141.0
93.4
60.4
23.8
0.0
0.0

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