

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: P943074

Luminaire Tested: **GALN-SB7B-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943074
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-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 27971 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

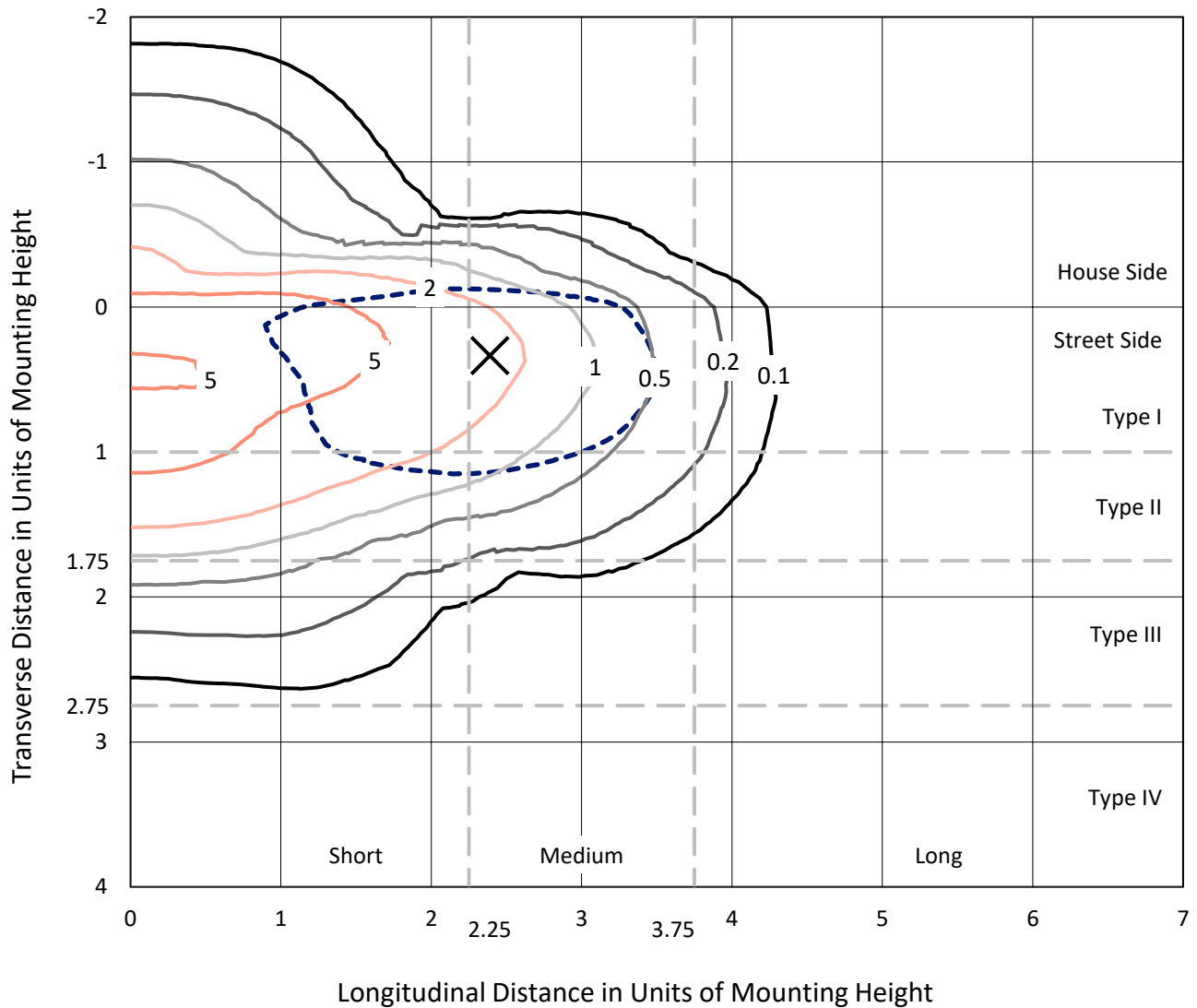
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

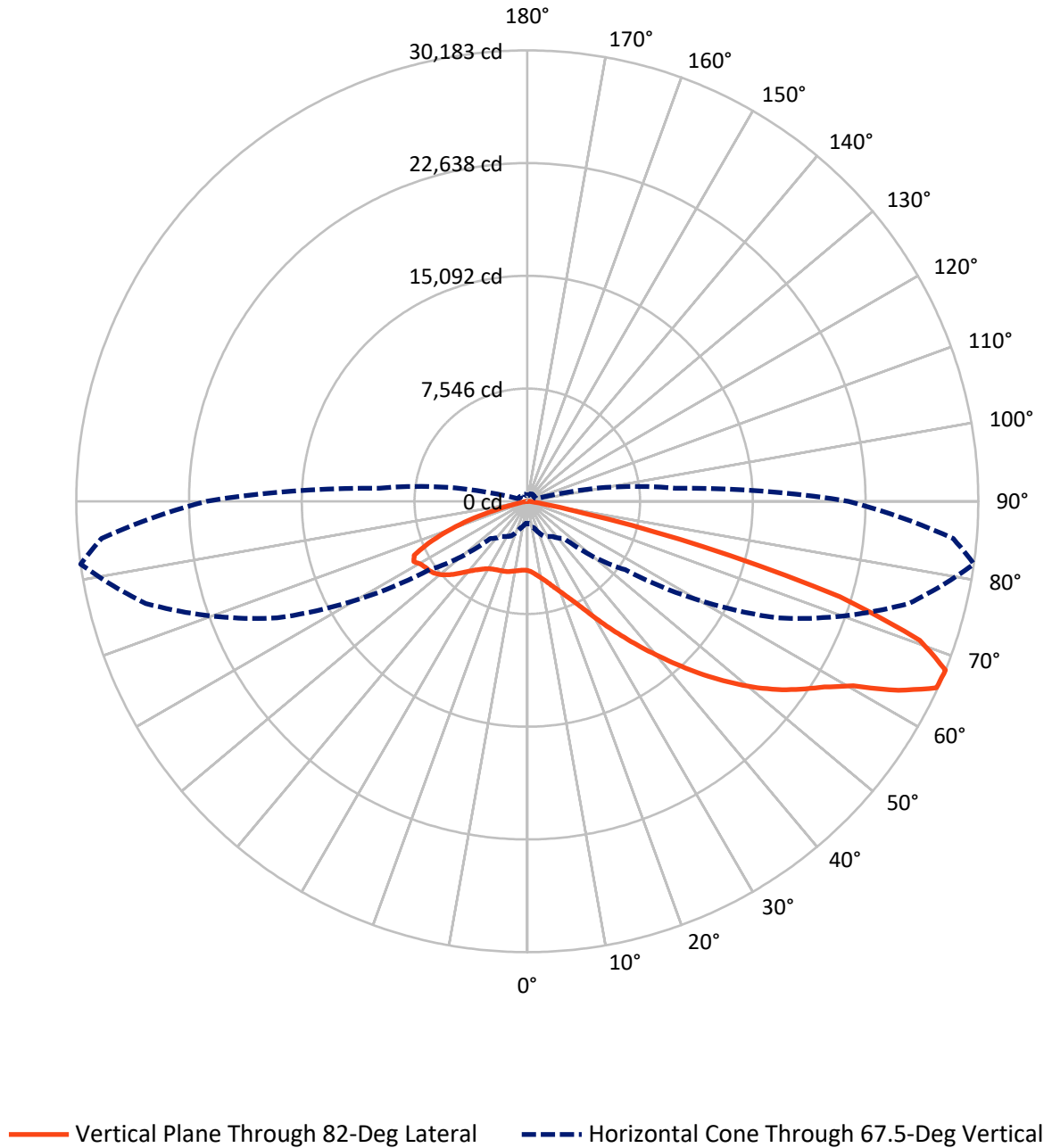
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	5066.7	0.0	5066.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22904.3	0.0	22904.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	27971.0	0.0	27971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	1.5
10°-20°	1072.8	3.8
20°-30°	1718.3	6.1
30°-40°	3038.5	10.9
40°-50°	5323.7	19.0
50°-60°	7100.3	25.4
60°-70°	6610.0	23.6
70°-80°	2536.9	9.1
80°-90°	157.6	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°	27971.0	100.0
0°-180°	27971.0	100.0

Coefficient of Utilization



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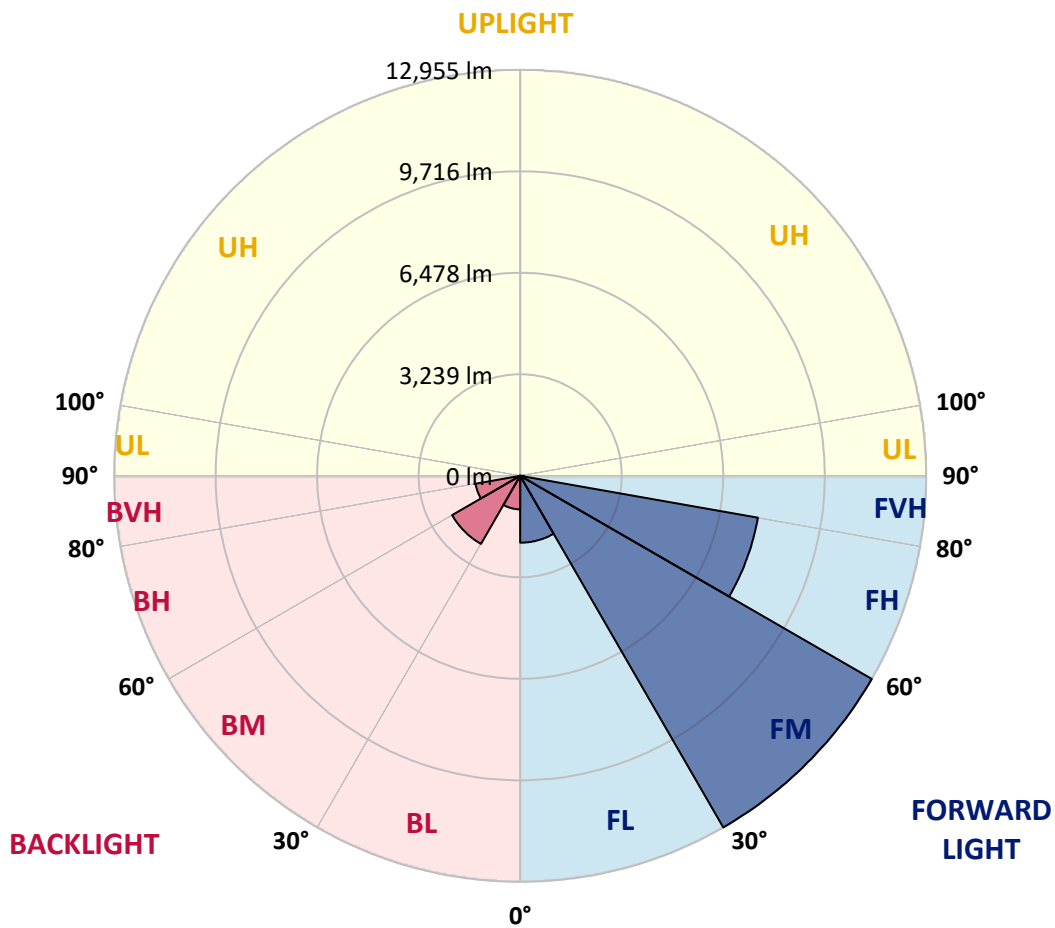
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2133.9	7.6			
FM (30°-60°)	12955.0	46.3			
FH (60°-80°)	7700.8	27.5			G4/12000
FVH (80°-90°)	114.6	0.4			G2/225
BL (0°-30°)	1070.1	3.8	B3/2500		
BM (30°-60°)	2507.5	9.0	B3/5000		
BH (60°-80°)	1446.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	43.0	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°	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8
2.5°	4897.7	4925.9	4909.7	4901.7	4887.6	4867.5	4851.3	4801.0	4748.6	4714.4
5°	4996.3	5024.5	5022.5	5030.6	5040.6	5046.7	5042.7	4986.3	4911.8	4853.4
7.5°	4911.8	4944.0	4970.2	5010.4	5080.9	5155.4	5191.7	5179.6	5103.1	5022.5
10°	4672.1	4706.3	4768.8	4863.4	5012.5	5173.6	5308.5	5370.9	5322.6	5234.0
12.5°	4233.1	4267.3	4390.2	4595.6	4845.3	5125.2	5383.0	5550.1	5562.2	5473.6
15°	3739.7	3773.9	3904.8	4162.6	4543.2	4992.3	5423.3	5739.4	5846.2	5769.7
17.5°	3433.6	3463.8	3562.5	3769.9	4166.6	4726.5	5409.2	5940.8	6184.5	6124.1
20°	3341.0	3367.1	3413.5	3558.5	3888.7	4450.6	5316.5	6130.1	6549.0	6514.8
22.5°	3439.6	3463.8	3477.9	3542.3	3749.8	4269.3	5199.7	6323.5	6971.9	6975.9
25°	3667.2	3691.4	3675.3	3715.5	3806.2	4213.0	5155.4	6551.0	7503.6	7547.9
27.5°	4041.8	4043.8	4005.5	4003.5	4017.6	4297.5	5201.8	6794.7	8174.2	8256.7
30°	4792.9	4762.7	4615.7	4456.6	4384.1	4551.3	5330.6	7082.7	8965.6	9112.6
32.5°	5950.9	5906.6	5636.7	5256.1	4873.5	4960.1	5562.2	7410.9	9827.5	10093.4
35°	7207.5	7195.5	6913.5	6347.6	5679.0	5542.1	5938.8	7841.9	10768.0	11190.9
37.5°	8375.6	8369.5	8208.4	7541.8	6728.2	6353.7	6543.0	8405.8	11774.9	12387.1
40°	9442.9	9461.0	9299.9	8703.8	7884.2	7394.8	7364.6	9102.6	12894.6	13690.1
42.5°	10365.2	10385.4	10222.3	9781.2	9026.0	8546.7	8373.6	9956.4	13988.1	15089.7
45°	10991.5	11116.4	11092.2	10739.8	10198.1	9700.7	9585.9	11027.8	15234.7	16573.9
47.5°	11168.8	11283.6	11464.8	11513.1	11182.9	10693.5	10830.4	12318.7	16495.4	18060.1
50°	10731.8	10838.5	11215.1	11716.5	11946.1	11795.1	12040.8	13702.2	17786.2	19542.3
52.5°	9869.8	9978.6	10453.8	11247.3	12183.7	12659.0	13255.1	15065.5	19036.8	20946.0
55°	8623.3	8738.1	9348.2	10246.4	11730.6	13015.5	14268.1	16426.9	20182.7	22208.6
57.5°	6927.6	7012.2	7646.6	8903.2	10590.8	12661.0	15015.2	17913.1	21262.1	23449.2
60°	4515.0	4589.5	5326.6	6728.2	8701.8	11476.9	15164.2	19570.5	22696.0	25062.3
62.5°	3002.6	3053.0	3490.0	4519.1	6128.1	9203.3	14292.2	20893.6	24798.4	27869.5
65°	2060.2	2110.5	2547.5	3264.4	3959.2	6087.8	11785.0	20718.4	26703.5	30098.9
67.5°	1470.1	1512.4	1882.9	2559.6	2865.7	3536.3	7988.9	18479.0	26429.6	30183.4
70°	1053.2	1077.4	1383.5	1993.7	2277.7	2124.6	4442.5	14133.1	23141.0	27871.6
72.5°	737.1	745.1	960.6	1518.4	1834.6	1550.7	2114.5	9422.8	17502.3	21876.4
75°	499.4	509.5	646.4	1113.7	1472.1	1184.1	1119.7	5052.7	10274.6	12109.2
77.5°	306.1	310.1	416.9	761.2	1101.6	902.2	721.0	2140.7	3975.3	3902.8
80°	173.2	173.2	265.8	473.3	751.2	582.0	505.5	910.3	1258.7	1105.6
82.5°	96.7	98.7	193.3	294.0	497.4	344.4	277.9	420.9	543.7	481.3
85°	40.3	44.3	118.8	139.0	237.6	171.2	112.8	177.2	201.4	179.2
87.5°	4.0	6.0	36.2	26.2	28.2	34.2	16.1	34.2	28.2	28.2
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°
4633.8	0°	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8	4633.8
4702.3	2.5°	4664.1	4633.8	4557.3	4468.7	4351.9	4295.5	4219.0	4166.6	4122.3	4126.4
4819.1	5°	4754.7	4678.2	4507.0	4293.5	4027.7	3838.4	3637.0	3498.0	3385.3	3361.1
4980.2	7.5°	4879.5	4758.7	4458.6	4074.0	3624.9	3284.6	2980.5	2785.1	2646.2	2601.9
5175.6	10°	5040.6	4865.4	4396.2	3798.1	3151.7	2718.7	2392.4	2239.4	2144.7	2112.5
5405.1	12.5°	5227.9	4988.3	4313.6	3461.8	2664.3	2247.4	2040.0	1963.5	1933.3	1923.2
5687.1	15°	5463.6	5141.3	4188.8	3063.1	2251.5	1959.5	1870.9	1860.8	1864.8	1860.8
6025.4	17.5°	5743.5	5308.5	3985.4	2652.2	1973.6	1812.5	1780.2	1788.3	1798.4	1796.3
6404.0	20°	6049.6	5473.6	3725.6	2287.7	1784.3	1707.7	1689.6	1697.7	1705.7	1701.7
6841.0	22.5°	6398.0	5650.8	3437.6	2003.8	1657.4	1611.1	1590.9	1592.9	1592.9	1584.9
7394.8	25°	6814.8	5846.2	3135.6	1802.4	1560.7	1524.5	1500.3	1492.3	1480.2	1456.0
8067.4	27.5°	7312.3	6053.6	2845.6	1661.4	1484.2	1450.0	1421.8	1401.6	1371.4	1331.1
8875.0	30°	7872.1	6305.3	2599.9	1572.8	1423.8	1389.6	1357.3	1327.1	1282.8	1232.5
9803.4	32.5°	8530.6	6575.2	2420.6	1514.4	1369.4	1333.2	1294.9	1258.7	1210.3	1160.0
10846.5	35°	9316.0	6901.4	2315.9	1474.1	1327.1	1278.8	1236.5	1196.2	1160.0	1115.7
11980.3	37.5°	10167.9	7247.8	2283.7	1454.0	1298.9	1224.4	1176.1	1147.9	1143.9	1117.7
13206.8	40°	11100.3	7658.6	2307.9	1441.9	1268.7	1172.1	1119.7	1113.7	1123.7	1077.4
14517.8	42.5°	12087.1	8146.0	2348.1	1427.8	1226.4	1119.7	1069.3	1069.3	1061.3	996.9
15903.3	45°	13154.4	8707.8	2388.4	1393.6	1176.1	1067.3	1029.1	1015.0	980.7	918.3
17296.9	47.5°	14229.8	9279.8	2418.6	1331.1	1115.7	1023.0	988.8	956.6	906.2	849.8
18664.3	50°	15250.8	9793.3	2386.4	1238.5	1047.2	980.7	944.5	900.2	845.8	807.6
19959.2	52.5°	16163.1	10238.4	2249.5	1129.8	974.7	936.4	904.2	857.9	813.6	773.3
21127.2	55°	16956.5	10598.8	2007.8	1027.1	910.3	898.2	866.0	807.6	747.1	712.9
22285.2	57.5°	17717.8	10872.7	1705.7	942.5	851.9	855.9	807.6	755.2	698.8	662.6
23845.9	60°	18730.7	11239.2	1399.6	863.9	789.4	801.5	749.1	710.9	640.4	594.1
26522.3	62.5°	20349.9	11809.2	1111.6	767.3	716.9	721.0	698.8	652.5	567.9	513.5
28505.9	65°	21634.7	11599.7	876.0	662.6	634.4	640.4	640.4	590.1	499.4	437.0
28612.7	67.5°	21489.7	9932.3	698.8	559.8	555.8	559.8	573.9	531.7	443.0	392.7
26433.7	70°	19796.1	7900.3	559.8	465.2	483.3	473.3	513.5	485.3	398.7	348.4
20492.8	72.5°	16153.0	5691.1	426.9	384.6	370.5	386.7	463.2	437.0	332.3	275.9
10854.6	75°	9438.9	3036.9	318.2	304.1	267.8	322.2	410.8	372.6	253.7	203.4
3326.9	77.5°	3073.1	1059.3	233.6	223.5	199.4	259.8	350.4	314.2	207.4	161.1
974.7	80°	823.7	320.2	159.1	147.0	128.9	193.3	277.9	249.7	149.0	104.7
418.9	82.5°	330.3	134.9	92.6	82.6	70.5	132.9	219.5	201.4	110.8	66.5
130.9	85°	106.7	44.3	34.2	26.2	32.2	82.6	130.9	136.9	78.5	34.2
20.1	87.5°	14.1	6.0	6.0	8.1	6.0	14.1	40.3	38.3	22.2	4.0
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>
4633.8
4086.1
3306.7
2557.6
2088.4
1917.2
1858.8
1792.3
1699.7
1580.9
1452.0
1327.1
1228.4
1162.0
1111.6
1115.7
1079.4
996.9
916.3
847.8
801.5
769.3
708.9
658.5
588.0
509.5
431.0
384.6
342.4
269.9
197.4
155.1
102.7
66.5
26.2
0.0
0.0

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