

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: P954779

Luminaire Tested: **GALN-SB7D-935-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-935-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51018 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

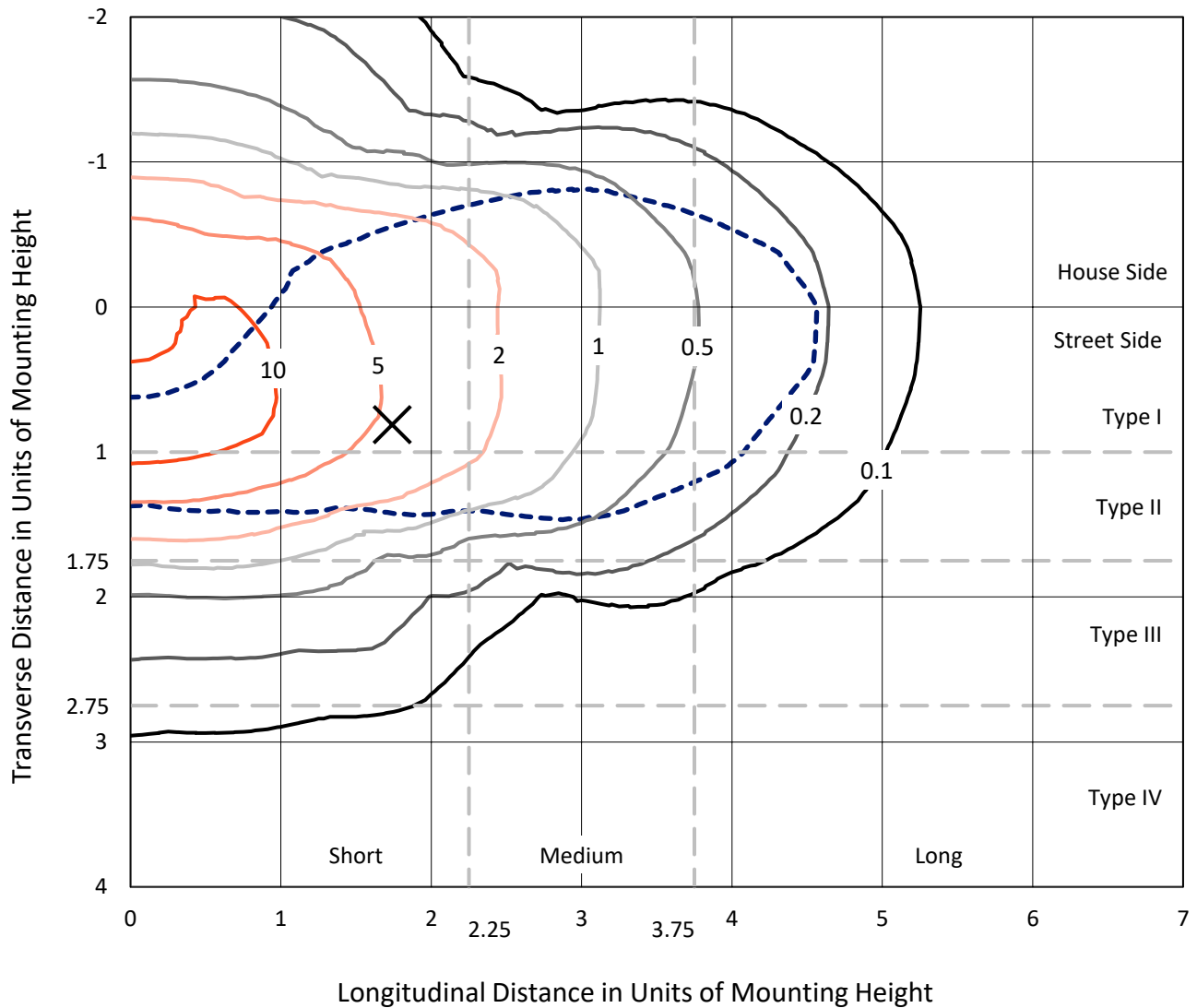
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

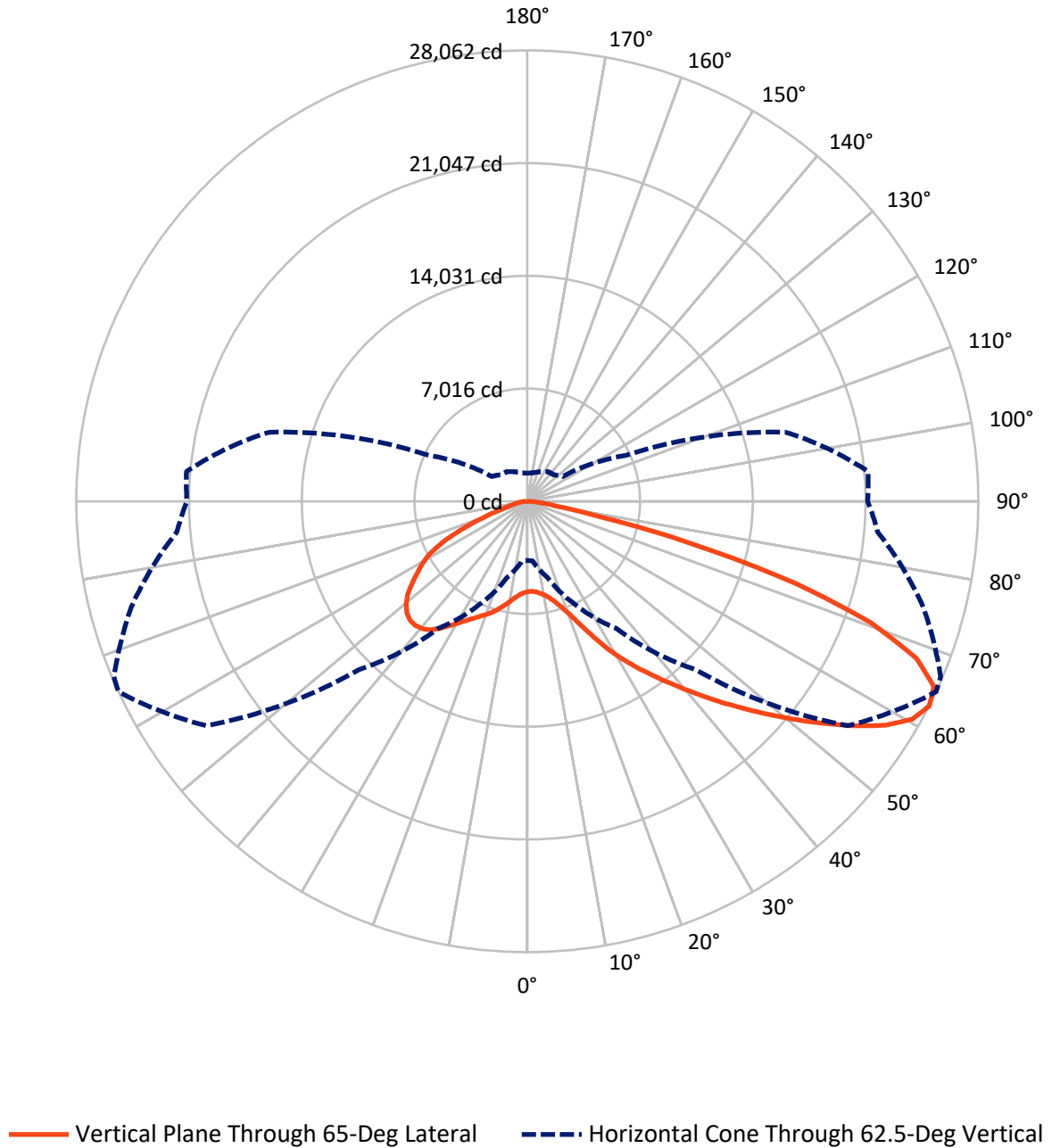
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16099.0	0.0	16099.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	34918.9	0.0	34918.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	51018.0	0.0	51018.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.5	1.1
10°-20°	1900.7	3.7
20°-30°	3853.9	7.6
30°-40°	6669.1	13.1
40°-50°	10092.4	19.8
50°-60°	11832.7	23.2
60°-70°	9920.3	19.4
70°-80°	5476.8	10.7
80°-90°	711.4	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°	51018.0	100.0
0°-180°	51018.0	100.0



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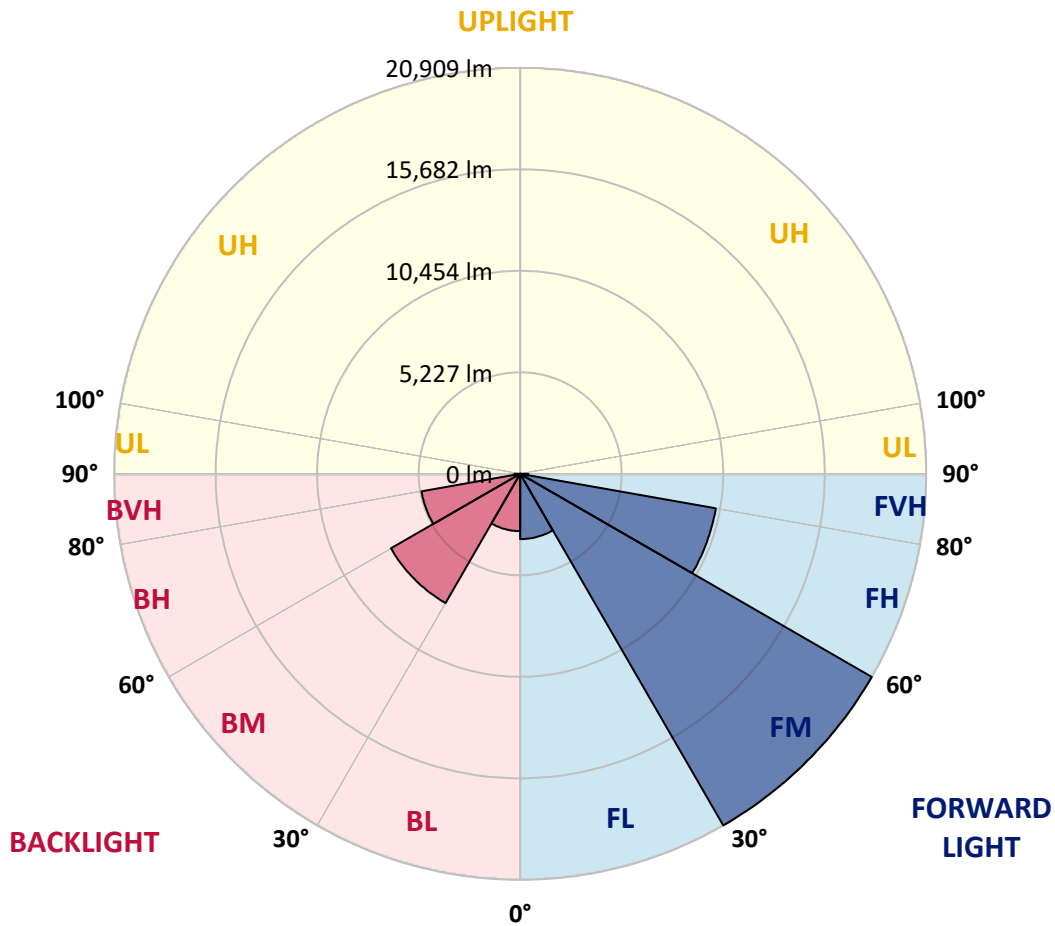
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3362.8	6.6			
FM	(30°-60°)	20908.8	41.0			
FH	(60°-80°)	10232.7	20.1			G4/12000
FVH	(80°-90°)	414.6	0.8			G3/500
BL	(0°-30°)	2952.4	5.8	B4/5000		
BM	(30°-60°)	7685.5	15.1	B4/8500		
BH	(60°-80°)	5164.4	10.1	B5		G5
BVH	(80°-90°)	296.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0
2.5°	5584.9	5569.0	5582.3	5582.3	5587.6	5584.9	5603.4	5608.7	5616.7	5632.5
5°	5529.3	5526.7	5550.5	5571.7	5592.8	5611.4	5635.2	5669.6	5674.9	5693.4
7.5°	5510.8	5494.9	5532.0	5558.4	5608.7	5653.7	5717.2	5775.5	5799.3	5807.2
10°	5653.7	5627.3	5661.7	5677.5	5719.9	5764.9	5839.0	5931.6	5958.1	5989.9
12.5°	5897.2	5868.1	5918.4	5942.2	5981.9	6021.6	6071.9	6161.9	6175.2	6233.4
15°	6230.7	6196.3	6228.1	6257.2	6323.4	6360.4	6410.7	6498.1	6498.1	6543.1
17.5°	6683.4	6638.4	6662.2	6672.8	6715.1	6770.7	6855.4	6932.2	6971.9	6956.0
20°	7358.3	7302.7	7302.7	7249.8	7233.9	7278.9	7390.1	7495.9	7538.3	7456.2
22.5°	8372.1	8292.7	8247.7	8067.7	7996.2	8001.5	8112.7	8242.4	8276.8	8131.2
25°	9661.1	9536.7	9475.8	9211.1	9049.7	8909.4	8996.7	9163.5	9211.1	9031.1
27.5°	10950.1	10958.1	10899.8	10582.2	10314.9	10058.1	10013.1	10187.8	10238.1	10034.3
30°	12757.9	12570.0	12458.8	12077.7	11696.5	11336.6	11151.3	11222.7	11236.0	10992.5
32.5°	14316.9	14269.3	14031.1	13697.6	13207.9	12644.1	12334.4	12220.6	12199.4	11852.7
35°	16093.0	16066.5	15815.1	15418.0	14888.7	14105.2	13546.7	13221.1	13194.7	12707.6
37.5°	17898.2	17898.2	17652.0	17217.9	16670.0	15690.7	14841.0	14324.9	14240.2	13604.9
40°	19338.1	19250.7	19295.7	19113.1	18485.8	17445.6	16278.3	15529.2	15415.4	14653.1
42.5°	20156.0	20126.8	20396.8	20600.6	20343.9	19512.8	17861.1	16834.1	16675.3	15807.1
45°	20338.6	20306.8	20788.6	21535.0	21894.9	21553.5	19581.6	18207.9	18014.6	17014.1
47.5°	19917.7	19854.2	20560.9	21738.8	22892.8	23493.7	21445.0	19698.0	19417.5	18189.3
50°	18652.5	18591.6	19661.0	21225.3	23229.0	24811.8	23467.2	21278.2	20849.4	19449.2
52.5°	15902.4	15931.5	17607.0	19756.3	22786.9	25632.3	25208.8	22943.1	22427.0	20738.3
55°	12387.4	12450.9	14510.2	16876.5	21018.8	25507.9	26397.3	24658.3	24144.8	21950.5
57.5°	8869.7	9150.2	11079.8	13422.3	17622.9	23536.0	26656.7	26288.8	25791.1	23274.0
60°	5749.0	5799.3	7784.5	10145.5	13419.7	20031.5	26129.9	27524.9	27135.8	24623.9
62.5°	3684.4	3718.9	4928.5	7096.3	9658.4	14819.9	24356.5	28062.2	27943.1	25515.9
65°	2707.8	2681.3	3311.2	4690.3	6506.0	9139.7	20913.0	27802.8	28038.3	26074.4
67.5°	2260.4	2223.4	2533.1	3247.7	4793.5	5190.5	15473.6	26116.7	26979.6	26010.8
70°	2059.3	2027.5	2215.4	2411.3	3740.0	3475.3	7800.3	22704.9	24033.6	25288.2
72.5°	1744.3	1688.7	1945.5	2141.3	2908.9	2665.4	3223.9	17440.3	19060.1	22972.2
75°	1352.6	1315.5	1535.2	1884.6	2186.3	2080.4	2038.1	10590.1	12358.3	17765.8
77.5°	1072.0	1021.7	1222.9	1469.0	1966.6	1569.6	1484.9	4560.6	6312.8	11341.9
80°	807.3	762.3	929.1	1162.0	1511.4	1183.2	960.8	1860.8	2379.5	5746.4
82.5°	574.4	534.7	648.5	852.3	1016.4	1061.4	590.3	1042.9	1172.6	2215.4
85°	367.9	344.1	434.1	534.7	645.8	682.9	360.0	545.3	598.2	913.2
87.5°	201.2	164.1	232.9	248.8	299.1	272.6	172.0	198.5	214.4	330.9
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°
5622.0	0°	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0
5632.5	2.5°	5643.1	5651.1	5677.5	5685.5	5704.0	5727.8	5743.7	5759.6	5759.6	5775.5
5717.2	5°	5719.9	5738.4	5794.0	5823.1	5870.8	5918.4	5947.5	5981.9	6003.1	6013.7
5852.2	7.5°	5868.1	5897.2	5976.6	6026.9	6109.0	6175.2	6220.2	6267.8	6278.4	6307.5
6040.2	10°	6069.3	6103.7	6193.7	6289.0	6386.9	6469.0	6511.3	6545.7	6559.0	6564.2
6281.0	12.5°	6299.6	6349.9	6466.3	6582.8	6686.0	6757.5	6768.1	6760.1	6723.1	6691.3
6577.5	15°	6582.8	6627.8	6757.5	6884.5	6985.1	6998.3	6932.2	6889.8	6844.8	6836.9
6908.3	17.5°	6921.6	6945.4	7064.5	7188.9	7196.9	7151.9	7053.9	7014.2	6971.9	6942.8
7339.8	20°	7316.0	7308.0	7392.7	7445.7	7390.1	7252.4	7104.2	7038.0	6995.7	6961.3
7869.2	22.5°	7787.1	7726.2	7715.6	7702.4	7554.2	7265.7	7064.5	6979.8	6913.6	6866.0
8607.6	25°	8472.6	8239.7	8078.3	7988.3	7654.8	7194.2	6937.5	6749.5	6625.1	6543.1
9510.2	27.5°	9330.2	8938.5	8530.9	8311.2	7654.8	7048.6	6630.4	6326.0	6122.2	6037.5
10383.7	30°	10148.1	9737.9	9137.0	8700.3	7636.2	6810.4	6135.5	5712.0	5473.7	5389.0
11130.1	32.5°	10846.9	10399.6	9780.2	9126.4	7591.2	6424.0	5521.4	5052.9	4822.6	4722.0
11868.6	35°	11495.4	11018.9	10426.0	9594.9	7472.1	5857.5	4846.4	4489.1	4232.4	4070.9
12620.3	37.5°	12159.7	11593.3	11037.5	10018.4	7257.7	5195.8	4327.6	4023.2	3721.5	3504.5
13419.7	40°	12882.3	12204.7	11691.2	10269.9	6905.7	4565.9	3925.3	3647.4	3327.1	3096.8
14340.8	42.5°	13726.7	12937.9	12419.1	10399.6	6424.0	4118.5	3663.3	3390.6	3088.9	2901.0
15328.1	45°	14608.1	13745.2	13083.5	10396.9	5886.6	3909.4	3578.6	3308.6	2975.1	2779.2
16341.8	47.5°	15531.9	14589.6	13657.9	10227.5	5420.8	3938.5	3530.9	3131.3	2763.3	2572.8
17366.1	50°	16458.3	15513.3	14213.7	9909.9	5222.3	3875.0	3353.6	2882.4	2448.4	2276.3
18327.0	52.5°	17376.7	16495.3	14692.8	9457.3	5021.1	3639.5	3126.0	2559.5	2318.7	2199.6
19319.5	55°	18300.5	17466.7	15214.2	8798.2	4518.2	3364.2	2744.8	2437.8	2215.4	2106.9
20290.9	57.5°	19226.9	18589.0	15709.2	8139.1	3885.6	3025.4	2535.7	2289.5	2112.2	2019.6
21103.5	60°	20190.4	19872.7	16220.0	7533.0	3260.9	2591.3	2382.2	2170.4	1990.4	1887.2
21884.4	62.5°	21182.9	21286.2	16619.7	6752.2	2686.6	2326.6	2244.5	2027.5	1852.8	1754.9
22530.2	65°	22183.5	22649.3	16881.8	5669.6	2178.4	2075.1	2096.3	1871.3	1694.0	1609.3
23004.0	67.5°	22937.8	23631.3	16807.7	4290.6	1786.6	1836.9	1911.0	1707.2	1540.5	1474.3
22927.2	70°	23022.5	23514.8	16077.1	2938.0	1495.5	1604.0	1704.6	1545.8	1373.7	1326.1
21847.3	72.5°	21894.9	21926.7	14041.7	1919.0	1265.2	1408.1	1487.5	1381.7	1214.9	1167.3
19113.1	75°	18938.4	18133.7	10309.6	1265.2	1058.7	1209.6	1283.7	1209.6	1048.2	1058.7
14301.1	77.5°	14348.7	12842.6	6259.9	899.9	884.1	1016.4	1117.0	1064.0	926.4	1040.2
7191.6	80°	7392.7	6948.0	2792.5	672.3	698.8	812.6	918.5	849.6	733.2	698.8
1606.7	82.5°	1694.0	1969.3	1101.1	481.7	505.6	585.0	701.4	637.9	526.7	444.7
669.7	85°	592.9	648.5	487.0	301.7	296.4	365.3	476.4	426.1	357.3	285.9
283.2	87.5°	187.9	246.2	182.6	121.8	127.0	164.1	219.7	201.2	166.8	108.5
0.0	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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<u>180°</u>
5622.0
5775.5
6019.0
6296.9
6551.0
6691.3
6836.9
6945.4
6963.9
6881.9
6574.8
6079.9
5439.3
4772.3
4123.8
3562.7
3141.8
2938.0
2811.0
2599.2
2286.9
2199.6
2096.3
2003.7
1879.3
1752.2
1606.7
1477.0
1328.7
1164.6
1021.7
915.8
637.9
439.4
301.7
113.8
0.0

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