

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: P941125

Luminaire Tested: **GALN-SB4C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29740 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

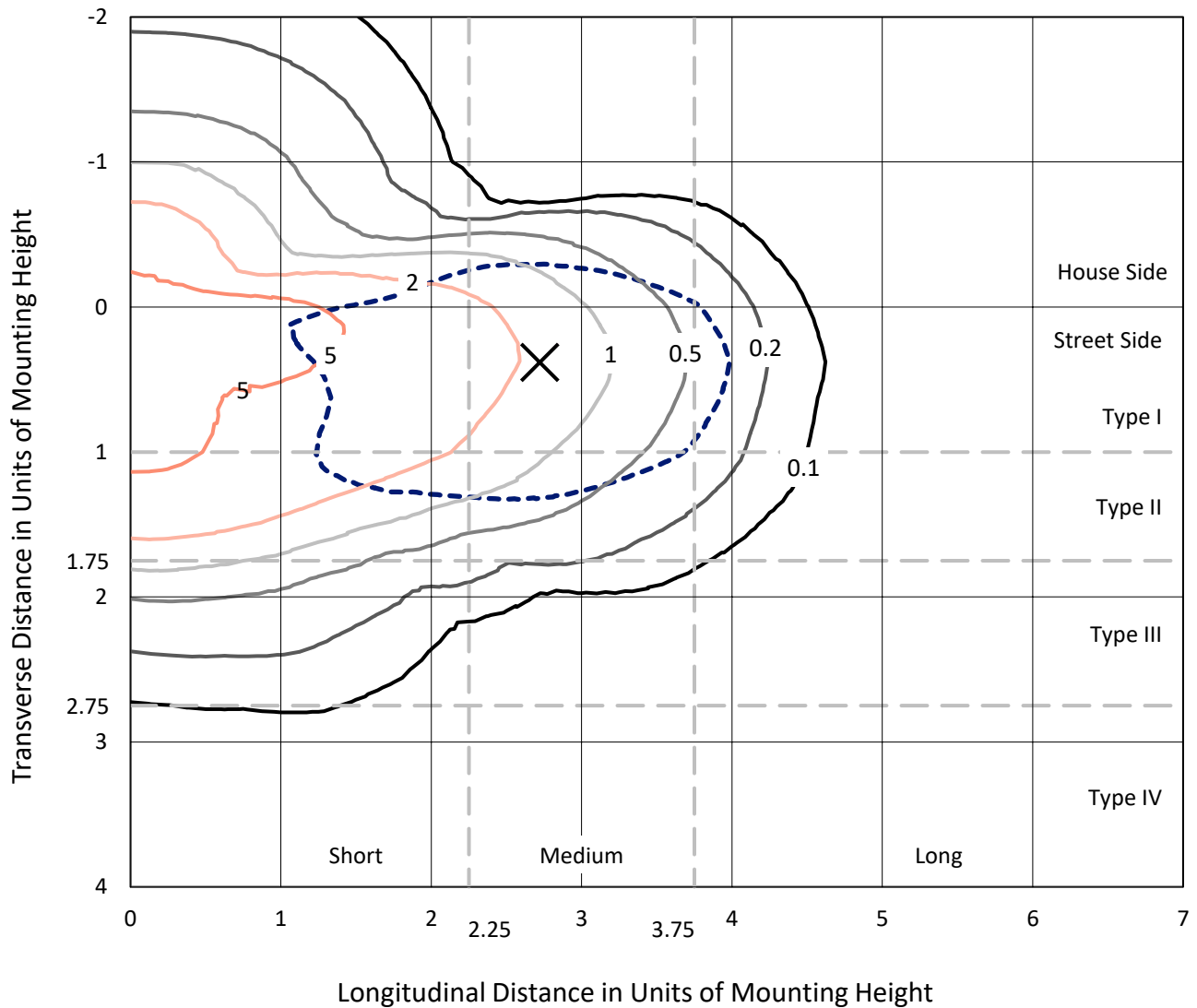
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

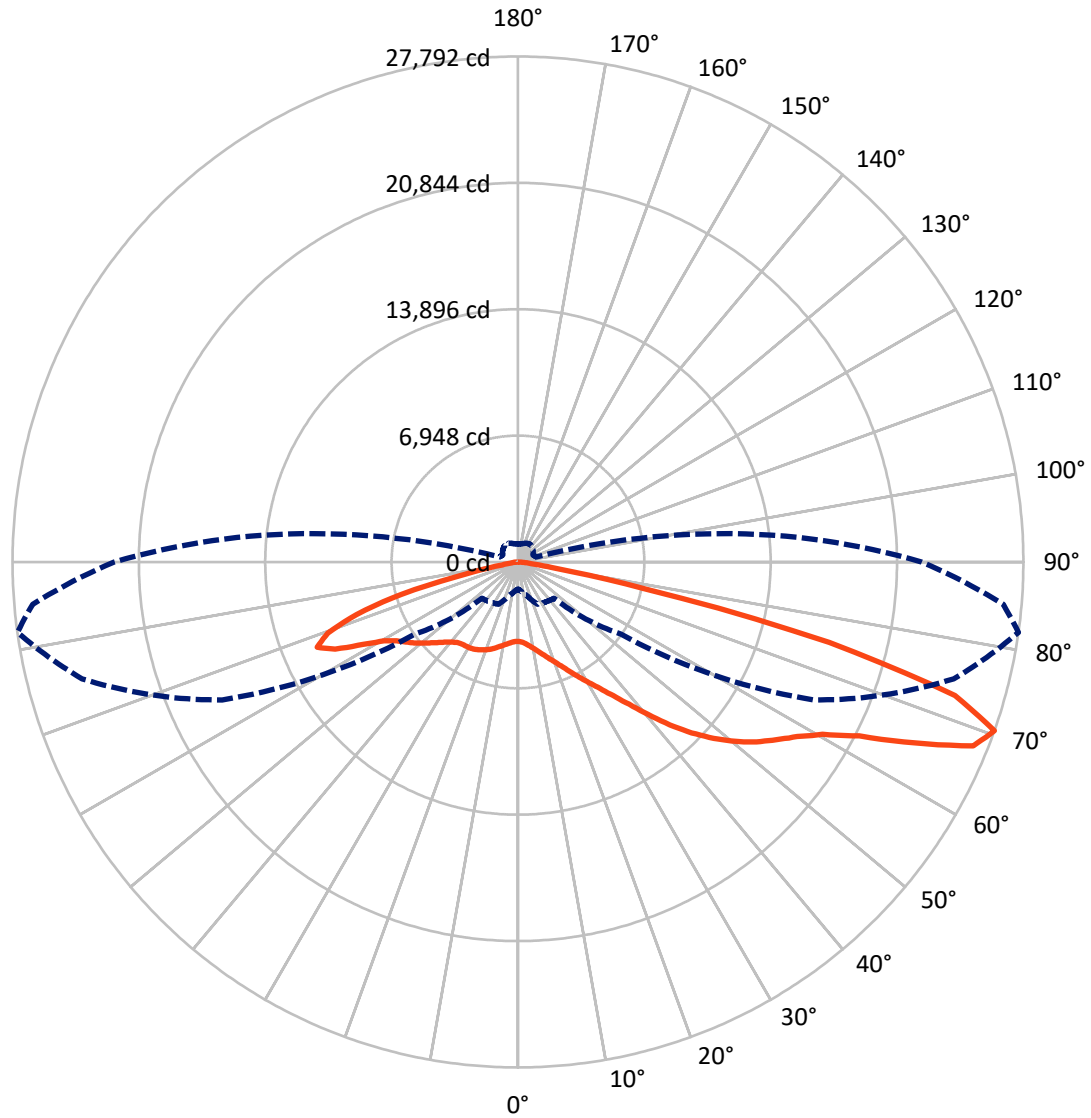
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7331.6	0.0	7331.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22408.4	0.0	22408.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	29740.0	0.0	29740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.7	1.4
10°-20°	1182.8	4.0
20°-30°	1978.7	6.7
30°-40°	3091.2	10.4
40°-50°	4923.2	16.6
50°-60°	6851.2	23.0
60°-70°	7166.6	24.1
70°-80°	3745.7	12.6
80°-90°	388.9	1.3
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°	29740.0	100.0
0°-180°	29740.0	100.0

Coefficient of Utilization



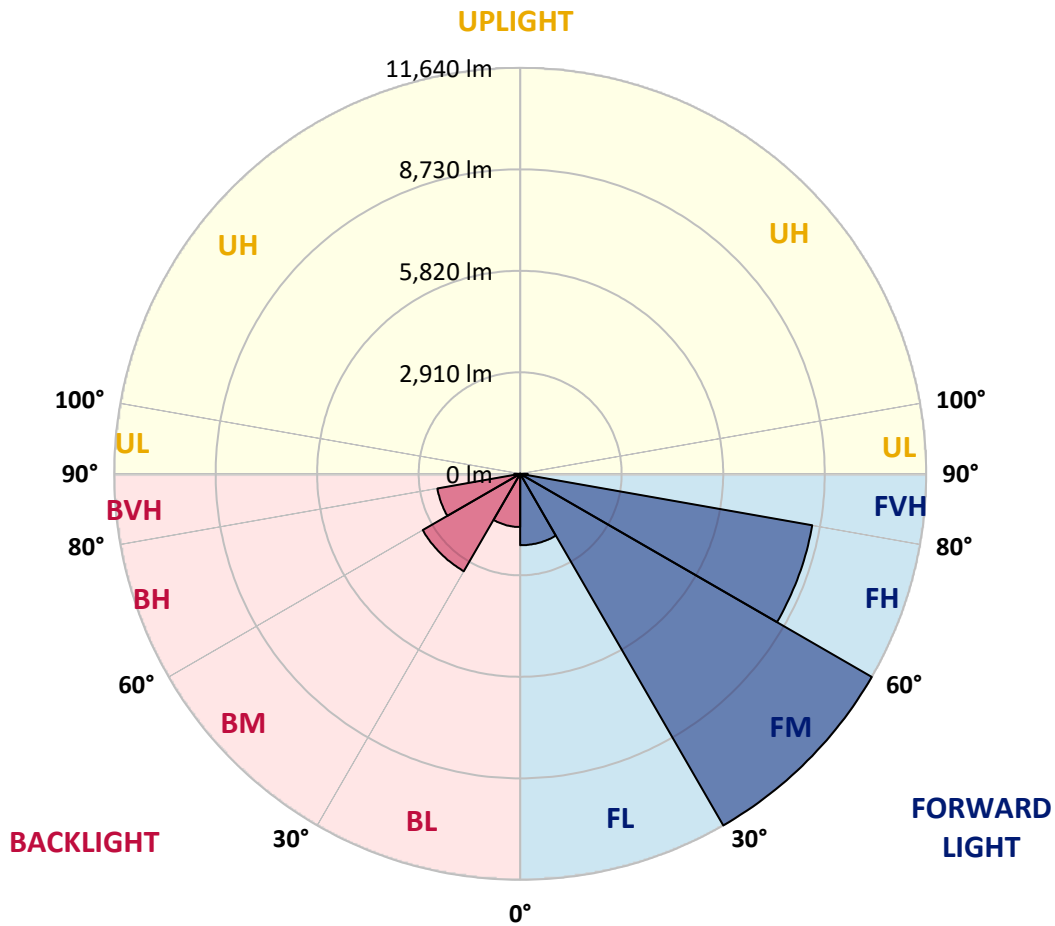
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.9	6.9			
FM (30°-60°)	11639.9	39.1			
FH (60°-80°)	8502.8	28.6			G4/12000
FVH (80°-90°)	217.7	0.7			G2/225
BL (0°-30°)	1525.2	5.1	B3/2500		
BM (30°-60°)	3225.6	10.8	B3/5000		
BH (60°-80°)	2409.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	171.2	0.6			G2/225
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°	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3
2.5°	4464.4	4489.7	4481.8	4473.9	4473.9	4462.8	4461.3	4445.5	4432.8	4412.3
5°	4521.2	4548.0	4544.9	4551.2	4571.7	4576.5	4581.2	4571.7	4546.5	4521.2
7.5°	4470.7	4500.7	4510.2	4548.0	4611.2	4668.0	4710.6	4728.0	4704.3	4668.0
10°	4300.3	4333.4	4366.6	4456.5	4568.6	4702.7	4816.3	4884.2	4879.4	4844.7
12.5°	3954.7	3989.4	4060.4	4235.6	4440.7	4677.5	4888.9	5030.9	5079.9	5054.6
15°	3678.5	3708.5	3762.2	3942.1	4208.8	4568.6	4915.7	5191.9	5316.6	5302.4
17.5°	3670.6	3683.3	3716.4	3801.6	4006.8	4398.1	4887.3	5349.7	5588.0	5586.4
20°	3809.5	3814.2	3833.2	3850.5	3967.3	4268.7	4814.7	5480.7	5892.6	5892.6
22.5°	4002.0	3998.9	4017.8	4002.0	4058.8	4257.7	4769.0	5595.9	6231.9	6257.1
25°	4290.8	4275.0	4270.3	4234.0	4245.1	4360.3	4819.5	5726.9	6634.3	6686.4
27.5°	4675.9	4650.6	4633.3	4549.6	4521.2	4571.7	4974.1	5884.7	7082.5	7172.4
30°	5177.7	5131.9	5106.7	4961.5	4858.9	4866.8	5207.7	6094.6	7551.1	7696.3
32.5°	5862.6	5791.6	5723.7	5485.4	5297.6	5236.1	5509.1	6384.9	8059.3	8291.3
35°	6629.5	6572.7	6500.1	6132.4	5843.7	5701.6	5916.3	6790.5	8654.2	9021.9
37.5°	7368.1	7319.2	7353.9	6858.4	6485.9	6279.2	6449.6	7335.0	9388.0	9930.9
40°	8131.9	8094.0	8098.7	7625.3	7191.3	6959.4	7096.7	8018.3	10229.2	11011.9
42.5°	8962.0	8933.6	8838.9	8419.1	7931.5	7715.3	7841.5	8807.3	11131.8	12242.8
45°	9891.5	9874.1	9785.7	9304.4	8745.8	8502.7	8673.2	9678.4	12039.2	13401.1
47.5°	10694.7	10708.9	10697.9	10292.3	9713.1	9356.5	9560.1	10587.4	12883.5	14490.0
50°	11081.3	11155.5	11264.4	11138.1	10778.3	10415.4	10454.8	11464.8	13688.3	15511.0
52.5°	10879.3	11019.8	11316.5	11518.5	11657.3	11581.6	11475.9	12335.9	14445.8	16432.6
55°	10126.6	10323.8	10816.2	11303.8	12012.4	12563.2	12702.0	13301.7	15184.4	17243.8
57.5°	8755.2	9075.6	9517.4	10503.8	11696.8	13038.2	14131.8	14641.5	15967.1	18110.1
60°	6403.9	6833.1	7382.3	8849.9	10592.1	12784.1	15348.5	16699.3	17079.6	19232.2
62.5°	4098.3	4363.4	4868.4	6250.8	8253.4	11482.2	15720.9	19271.6	18965.5	21072.2
65°	2805.8	2976.3	3438.7	4215.1	5335.5	8546.9	14723.6	21200.0	21960.7	23988.5
67.5°	2038.9	2168.3	2562.8	3243.0	3476.5	5057.8	11425.4	21111.7	24872.2	26993.2
70°	1486.6	1578.1	1909.5	2562.8	2674.9	2813.7	6921.5	17946.0	24809.1	27791.7
72.5°	1101.5	1164.6	1387.1	1988.4	2165.1	1900.0	3426.0	13042.9	21318.4	25137.4
75°	796.9	844.3	1008.4	1521.3	1732.7	1447.1	1709.1	7622.2	14870.3	17682.5
77.5°	609.1	645.4	752.7	1114.1	1387.1	1085.7	1060.5	3506.5	7050.9	7085.6
80°	489.2	512.9	571.3	784.3	1063.6	812.7	691.2	1415.5	2228.3	1885.8
82.5°	359.8	399.3	482.9	550.8	760.6	560.2	421.3	714.9	847.4	729.1
85°	205.2	232.0	291.9	394.5	486.1	342.4	241.4	317.2	394.5	323.5
87.5°	72.6	94.7	102.6	154.7	211.5	142.0	93.1	91.5	129.4	96.3
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°
4360.3	0°	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3
4407.6	2.5°	4391.8	4383.9	4352.4	4309.8	4265.6	4223.0	4208.8	4178.8	4158.3	4147.2
4510.2	5°	4480.2	4454.9	4380.8	4286.1	4186.7	4079.4	4003.6	3934.2	3883.7	3836.3
4650.6	7.5°	4606.4	4562.3	4434.4	4268.7	4092.0	3913.7	3781.1	3680.1	3612.2	3568.1
4814.7	10°	4753.2	4685.3	4489.7	4241.9	3968.9	3713.2	3557.0	3470.2	3427.6	3403.9
5002.5	12.5°	4922.1	4825.8	4546.5	4180.4	3781.1	3489.2	3381.8	3356.6	3358.2	3359.7
5239.3	15°	5130.4	4996.2	4592.2	4046.2	3536.5	3317.1	3298.2	3339.2	3381.8	3402.4
5507.5	17.5°	5365.5	5176.1	4600.1	3825.3	3296.6	3206.7	3266.6	3355.0	3419.7	3448.1
5807.4	20°	5618.0	5359.2	4543.3	3512.8	3099.4	3116.7	3224.0	3337.7	3408.7	3445.0
6149.8	22.5°	5906.8	5554.9	4407.6	3184.6	2938.4	3018.9	3145.1	3255.6	3329.8	3366.1
6552.2	25°	6236.6	5774.2	4194.6	2908.4	2799.5	2908.4	3034.7	3126.2	3186.2	3219.3
7002.0	27.5°	6602.7	6003.0	3910.5	2689.1	2678.0	2794.8	2898.9	2970.0	3001.5	3026.8
7480.1	30°	6970.4	6211.4	3566.5	2523.4	2572.3	2682.7	2756.9	2788.5	2797.9	2802.7
8013.5	32.5°	7368.1	6391.3	3205.1	2386.1	2471.3	2573.9	2618.0	2632.3	2588.1	2558.1
8660.5	35°	7849.4	6583.8	2851.6	2277.2	2371.9	2460.2	2474.4	2461.8	2409.7	2348.2
9471.7	37.5°	8444.3	6823.7	2569.1	2199.9	2278.8	2337.1	2319.8	2316.6	2321.4	2248.8
10446.9	40°	9173.4	7136.1	2362.4	2139.9	2203.0	2215.6	2166.7	2193.5	2217.2	2106.7
11516.9	42.5°	9983.0	7513.3	2231.4	2098.9	2139.9	2109.9	2034.2	2064.1	2061.0	1915.8
12591.6	45°	10808.3	7923.6	2185.7	2068.9	2081.5	2021.5	1937.9	1945.8	1879.5	1748.5
13622.1	47.5°	11628.9	8363.9	2214.1	2043.6	2008.9	1941.0	1876.3	1841.6	1743.8	1645.9
14609.9	50°	12433.8	8826.2	2318.2	1993.1	1909.5	1870.0	1822.7	1761.1	1657.0	1573.4
15544.2	52.5°	13180.2	9291.8	2435.0	1909.5	1784.8	1808.5	1778.5	1707.5	1604.9	1519.7
16427.9	55°	13887.2	9757.3	2480.8	1794.3	1668.0	1754.8	1737.5	1606.5	1483.4	1414.0
17352.7	57.5°	14657.3	10317.5	2430.3	1647.5	1573.4	1693.3	1627.0	1481.8	1410.8	1358.7
18556.7	60°	15724.1	11196.5	2321.4	1466.0	1483.4	1601.8	1488.1	1428.2	1350.8	1292.5
20362.1	62.5°	17496.3	12836.2	2146.2	1286.1	1377.7	1466.0	1421.9	1361.9	1283.0	1226.2
23448.8	65°	20115.9	15114.9	1816.4	1145.7	1259.3	1333.5	1350.8	1290.9	1208.8	1148.8
26153.6	67.5°	22325.2	16544.7	1374.5	1028.9	1137.8	1226.2	1275.1	1216.7	1129.9	1071.5
26786.5	70°	22203.7	15506.3	1049.4	913.7	1030.5	1120.4	1183.6	1137.8	1044.7	989.5
24331.0	72.5°	19721.4	12971.9	849.0	796.9	921.6	1010.0	1085.7	1051.0	956.3	902.7
17824.5	75°	14488.4	9208.1	678.6	678.6	785.9	894.8	978.4	956.3	869.5	831.7
7483.3	77.5°	6107.2	3863.2	531.8	563.4	653.3	768.5	872.7	880.6	804.8	852.2
1978.9	80°	1623.9	1065.2	405.6	443.4	512.9	634.4	759.1	755.9	673.8	629.7
735.4	82.5°	618.6	419.8	288.8	312.5	370.9	486.1	601.3	620.2	538.1	465.5
288.8	85°	238.3	179.9	178.3	187.8	216.2	321.9	454.5	470.3	405.6	344.0
80.5	87.5°	61.5	53.7	66.3	63.1	99.4	172.0	260.4	269.9	247.8	143.6
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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180°
4360.3
4159.8
3855.3
3577.5
3410.2
3362.9
3400.8
3454.4
3454.4
3375.5
3228.8
3036.2
2813.7
2567.5
2351.4
2253.5
2109.9
1914.2
1753.3
1645.9
1567.0
1521.3
1407.7
1354.0
1289.3
1226.2
1152.0
1073.1
994.2
902.7
820.6
773.3
585.5
465.5
355.1
205.2
0.0

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