

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: P941395

Luminaire Tested: **GALN-SB4D-930-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941395
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-SB4D-930-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28111 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

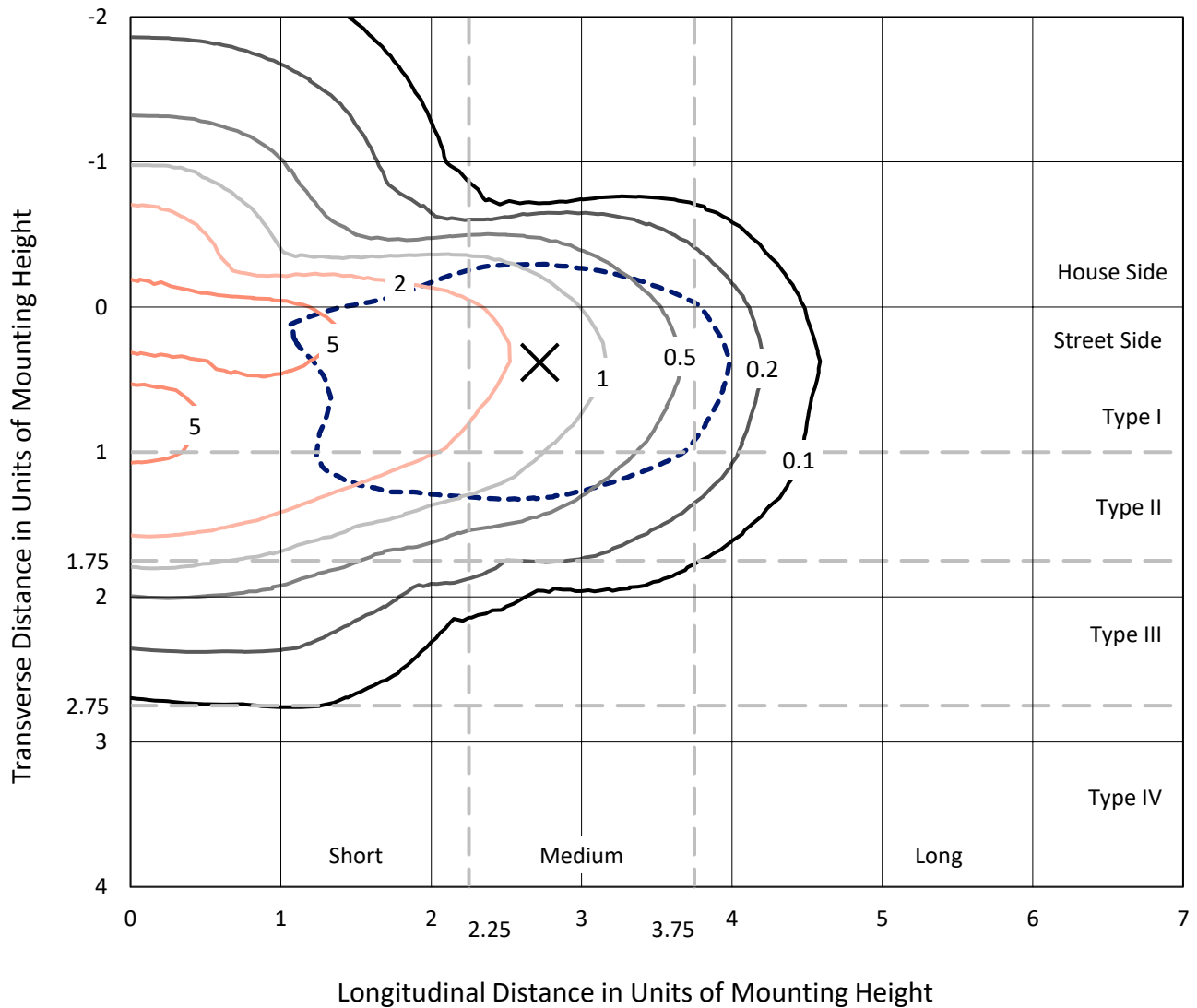
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

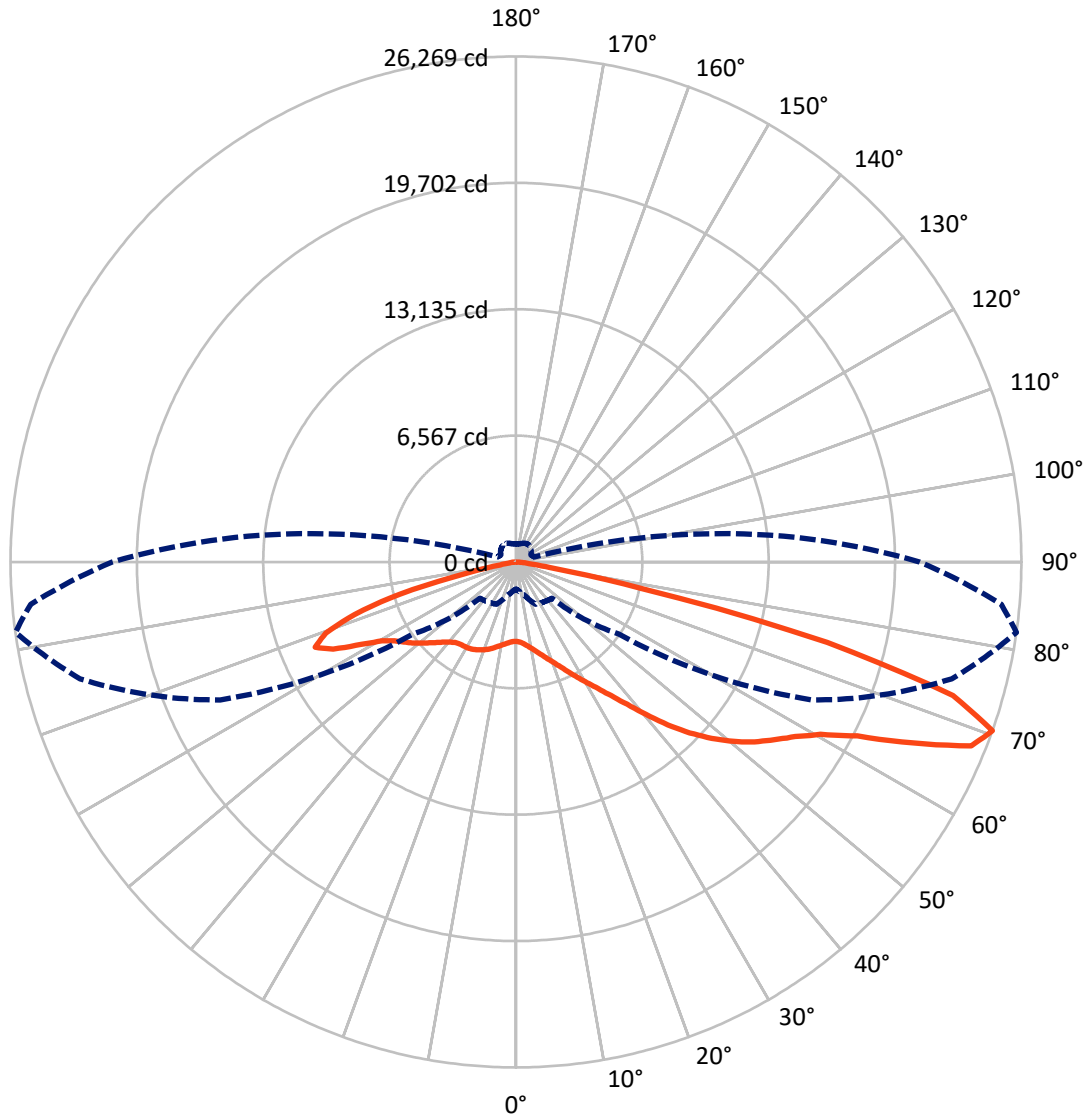
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	6930.0	0.0	6930.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21180.9	0.0	21180.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	28111.0	0.0	28111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	1.4
10°-20°	1118.0	4.0
20°-30°	1870.3	6.7
30°-40°	2921.9	10.4
40°-50°	4653.5	16.6
50°-60°	6475.9	23.0
60°-70°	6774.1	24.1
70°-80°	3540.5	12.6
80°-90°	367.6	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°	28111.0	100.0
0°-180°	28111.0	100.0

Coefficient of Utilization



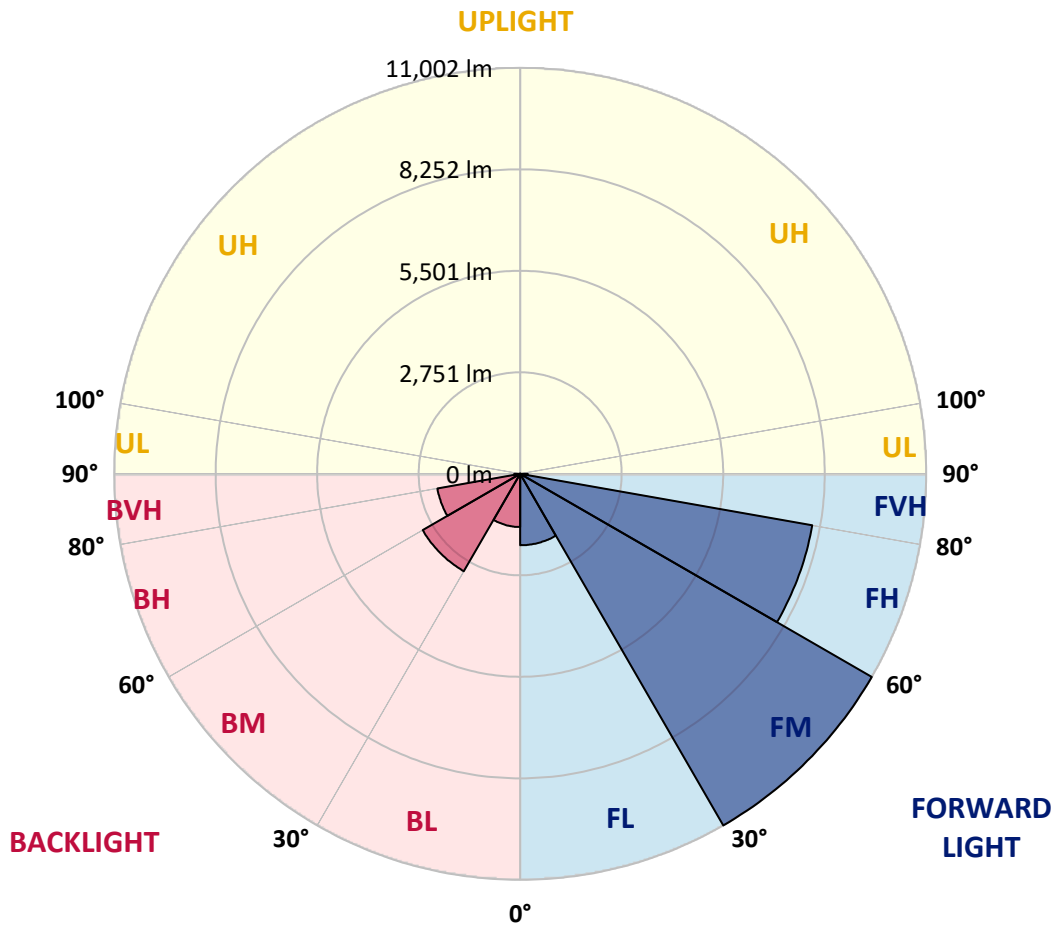
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.8	6.9			
FM (30°-60°)	11002.4	39.1			
FH (60°-80°)	8037.0	28.6			G4/12000
FVH (80°-90°)	205.8	0.7			G2/225
BL (0°-30°)	1441.7	5.1	B3/2500		
BM (30°-60°)	3048.9	10.8	B3/5000		
BH (60°-80°)	2277.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	161.8	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°	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4
2.5°	4219.9	4243.7	4236.3	4228.8	4228.8	4218.4	4216.9	4202.0	4190.0	4170.6
5°	4273.6	4298.9	4295.9	4301.9	4321.3	4325.8	4330.3	4321.3	4297.4	4273.6
7.5°	4225.8	4254.2	4263.1	4298.9	4358.6	4412.3	4452.6	4469.0	4446.6	4412.3
10°	4064.7	4096.1	4127.4	4212.4	4318.3	4445.1	4552.5	4616.7	4612.2	4579.4
12.5°	3738.1	3770.9	3838.0	4003.6	4197.5	4421.2	4621.1	4755.4	4801.6	4777.7
15°	3477.0	3505.4	3556.1	3726.1	3978.2	4318.3	4646.5	4907.5	5025.4	5011.9
17.5°	3469.6	3481.5	3512.8	3593.4	3787.3	4157.2	4619.6	5056.7	5281.9	5280.4
20°	3600.8	3605.3	3623.2	3639.6	3750.0	4034.9	4551.0	5180.5	5569.8	5569.8
22.5°	3782.8	3779.8	3797.7	3782.8	3836.5	4024.5	4507.8	5289.4	5890.5	5914.4
25°	4055.8	4040.9	4036.4	4002.1	4012.5	4121.4	4555.5	5413.2	6270.9	6320.1
27.5°	4419.8	4395.9	4379.5	4300.4	4273.6	4321.3	4701.7	5562.4	6694.5	6779.5
30°	4894.1	4850.8	4827.0	4689.7	4592.8	4600.2	4922.4	5760.7	7137.5	7274.8
32.5°	5541.5	5474.3	5410.2	5185.0	5007.5	4949.3	5207.3	6035.2	7617.8	7837.1
35°	6266.4	6212.7	6144.1	5796.5	5523.6	5389.3	5592.2	6418.6	8180.2	8527.8
37.5°	6964.5	6918.3	6951.1	6482.7	6130.7	5935.3	6096.4	6933.2	8873.8	9386.9
40°	7686.5	7650.7	7655.1	7207.6	6797.4	6578.2	6707.9	7579.1	9668.9	10408.7
42.5°	8471.1	8444.2	8354.7	7957.9	7497.0	7292.7	7412.0	8324.9	10522.1	11572.2
45°	9349.7	9333.2	9249.7	8794.8	8266.7	8037.0	8198.1	9148.3	11379.8	12667.1
47.5°	10108.9	10122.3	10111.9	9728.5	9181.1	8844.0	9036.4	10007.5	12177.8	13696.3
50°	10474.4	10544.5	10647.4	10528.1	10188.0	9844.9	9882.2	10836.8	12938.6	14661.4
52.5°	10283.4	10416.2	10696.6	10887.5	11018.8	10947.2	10847.3	11660.2	13654.5	15532.5
55°	9571.9	9758.4	10223.8	10684.7	11354.4	11875.0	12006.3	12573.1	14352.6	16299.2
57.5°	8275.7	8578.5	8996.1	9928.4	11056.1	12324.0	13357.7	13839.5	15092.5	17118.2
60°	6053.1	6458.8	6977.9	8365.2	10011.9	12083.8	14507.8	15784.6	16144.1	18178.7
62.5°	3873.8	4124.4	4601.7	5908.4	7801.3	10853.2	14859.8	18216.0	17926.6	19918.0
65°	2652.2	2813.2	3250.3	3984.2	5043.3	8078.8	13917.1	20038.8	20757.8	22674.5
67.5°	1927.2	2049.5	2422.4	3065.3	3286.1	4780.7	10799.5	19955.3	23509.9	25514.6
70°	1405.1	1491.6	1804.9	2422.4	2528.3	2659.6	6542.4	16963.0	23450.2	26269.4
72.5°	1041.2	1100.8	1311.2	1879.5	2046.5	1795.9	3238.4	12328.5	20150.7	23760.5
75°	753.3	798.0	953.2	1437.9	1637.8	1367.8	1615.5	7204.7	14055.8	16713.9
77.5°	575.8	610.1	711.5	1053.1	1311.2	1026.3	1002.4	3314.4	6664.7	6697.5
80°	462.4	484.8	540.0	741.3	1005.4	768.2	653.3	1338.0	2106.2	1782.5
82.5°	340.1	377.4	456.4	520.6	719.0	529.5	398.3	675.7	801.0	689.1
85°	193.9	219.3	276.0	372.9	459.4	323.7	228.2	299.8	372.9	305.8
87.5°	68.6	89.5	97.0	146.2	199.9	134.2	88.0	86.5	122.3	91.0
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°
4121.4	0°	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4	4121.4
4166.2	2.5°	4151.3	4143.8	4114.0	4073.7	4031.9	3991.7	3978.2	3949.9	3930.5	3920.1
4263.1	5°	4234.8	4210.9	4140.8	4051.3	3957.3	3855.9	3784.3	3718.7	3670.9	3626.2
4395.9	7.5°	4354.1	4312.4	4191.5	4034.9	3867.8	3699.3	3574.0	3478.5	3414.4	3372.6
4551.0	10°	4492.8	4428.7	4243.7	4009.6	3751.5	3509.8	3362.2	3280.1	3239.9	3217.5
4728.5	12.5°	4652.5	4561.5	4297.4	3951.4	3574.0	3298.0	3196.6	3172.7	3174.2	3175.7
4952.3	15°	4849.3	4722.6	4340.7	3824.6	3342.8	3135.4	3117.5	3156.3	3196.6	3216.0
5205.9	17.5°	5071.6	4892.6	4348.2	3615.8	3116.1	3031.0	3087.7	3171.2	3232.4	3259.3
5489.3	20°	5310.3	5065.6	4294.5	3320.4	2929.6	2946.0	3047.4	3154.8	3222.0	3256.3
5813.0	22.5°	5583.2	5250.6	4166.2	3010.1	2777.4	2853.5	2972.9	3077.3	3147.4	3181.7
6193.3	25°	5895.0	5457.9	3964.8	2749.1	2646.2	2749.1	2868.4	2955.0	3011.6	3043.0
6618.4	27.5°	6241.1	5674.2	3696.3	2541.8	2531.3	2641.7	2740.2	2807.3	2837.1	2861.0
7070.4	30°	6588.6	5871.1	3371.1	2385.1	2431.4	2535.8	2605.9	2635.7	2644.7	2649.2
7574.6	32.5°	6964.5	6041.2	3029.5	2255.4	2335.9	2432.9	2474.6	2488.1	2446.3	2418.0
8186.2	35°	7419.5	6223.2	2695.4	2152.4	2241.9	2325.5	2338.9	2327.0	2277.7	2219.6
8952.9	37.5°	7981.8	6449.9	2428.4	2079.4	2153.9	2209.1	2192.7	2189.7	2194.2	2125.6
9874.7	40°	8671.0	6745.2	2233.0	2022.7	2082.3	2094.3	2048.0	2073.4	2095.8	1991.4
10886.0	42.5°	9436.2	7101.7	2109.2	1983.9	2022.7	1994.3	1922.7	1951.1	1948.1	1810.9
11901.9	45°	10216.3	7489.6	2065.9	1955.6	1967.5	1910.8	1831.7	1839.2	1776.6	1652.7
12875.9	47.5°	10992.0	7905.7	2092.8	1931.7	1898.9	1834.7	1773.6	1740.8	1648.3	1555.8
13809.7	50°	11752.7	8342.8	2191.2	1884.0	1804.9	1767.6	1722.9	1664.7	1566.2	1487.2
14692.7	52.5°	12458.2	8782.8	2301.6	1804.9	1687.1	1709.4	1681.1	1614.0	1517.0	1436.5
15528.1	55°	13126.5	9222.9	2344.9	1696.0	1576.7	1658.7	1642.3	1518.5	1402.1	1336.5
16402.2	57.5°	13854.4	9752.4	2297.1	1557.3	1487.2	1600.5	1537.9	1400.7	1333.5	1284.3
17540.3	60°	14862.8	10583.2	2194.2	1385.7	1402.1	1514.0	1406.6	1349.9	1276.9	1221.7
19246.7	62.5°	16537.9	12133.1	2028.6	1215.7	1302.2	1385.7	1344.0	1287.3	1212.7	1159.0
22164.4	65°	19014.0	14287.0	1716.9	1082.9	1190.3	1260.4	1276.9	1220.2	1142.6	1085.9
24721.1	67.5°	21102.3	15638.4	1299.2	972.6	1075.5	1159.0	1205.3	1150.1	1068.0	1012.8
25319.2	70°	20987.5	14656.9	991.9	863.7	974.0	1059.1	1118.7	1075.5	987.5	935.3
22998.2	72.5°	18641.1	12261.3	802.5	753.3	871.1	954.7	1026.3	993.4	903.9	853.2
16848.2	75°	13694.8	8703.8	641.4	641.4	742.8	845.8	924.8	903.9	821.9	786.1
7073.4	77.5°	5772.7	3651.6	502.7	532.5	617.5	726.4	824.9	832.3	760.7	805.5
1870.5	80°	1534.9	1006.9	383.4	419.2	484.8	599.6	717.5	714.5	636.9	595.2
695.1	82.5°	584.7	396.8	273.0	295.3	350.5	459.4	568.3	586.2	508.7	440.0
273.0	85°	225.2	170.0	168.6	177.5	204.4	304.3	429.6	444.5	383.4	325.2
76.1	87.5°	58.2	50.7	62.6	59.7	94.0	162.6	246.1	255.1	234.2	135.7
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>
4121.4
3932.0
3644.1
3381.6
3223.5
3178.7
3214.5
3265.2
3265.2
3190.6
3051.9
2869.9
2659.6
2426.9
2222.6
2130.1
1994.3
1809.4
1657.2
1555.8
1481.2
1437.9
1330.6
1279.8
1218.7
1159.0
1088.9
1014.3
939.7
853.2
775.7
730.9
553.4
440.0
335.6
193.9
0.0

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