

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: P942185

Luminaire Tested: **GALN-SB6A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942185
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-SB6A-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23437 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

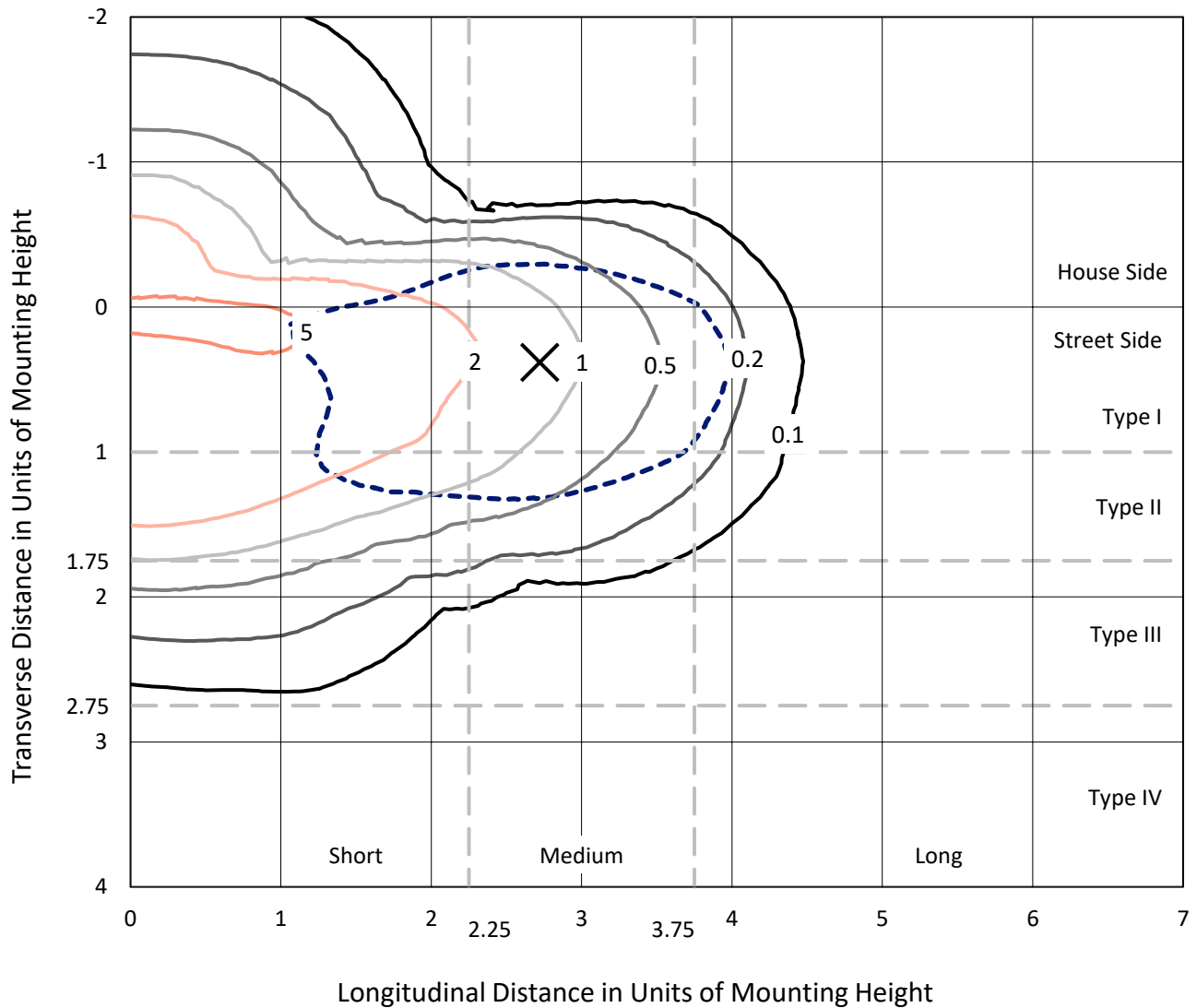
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

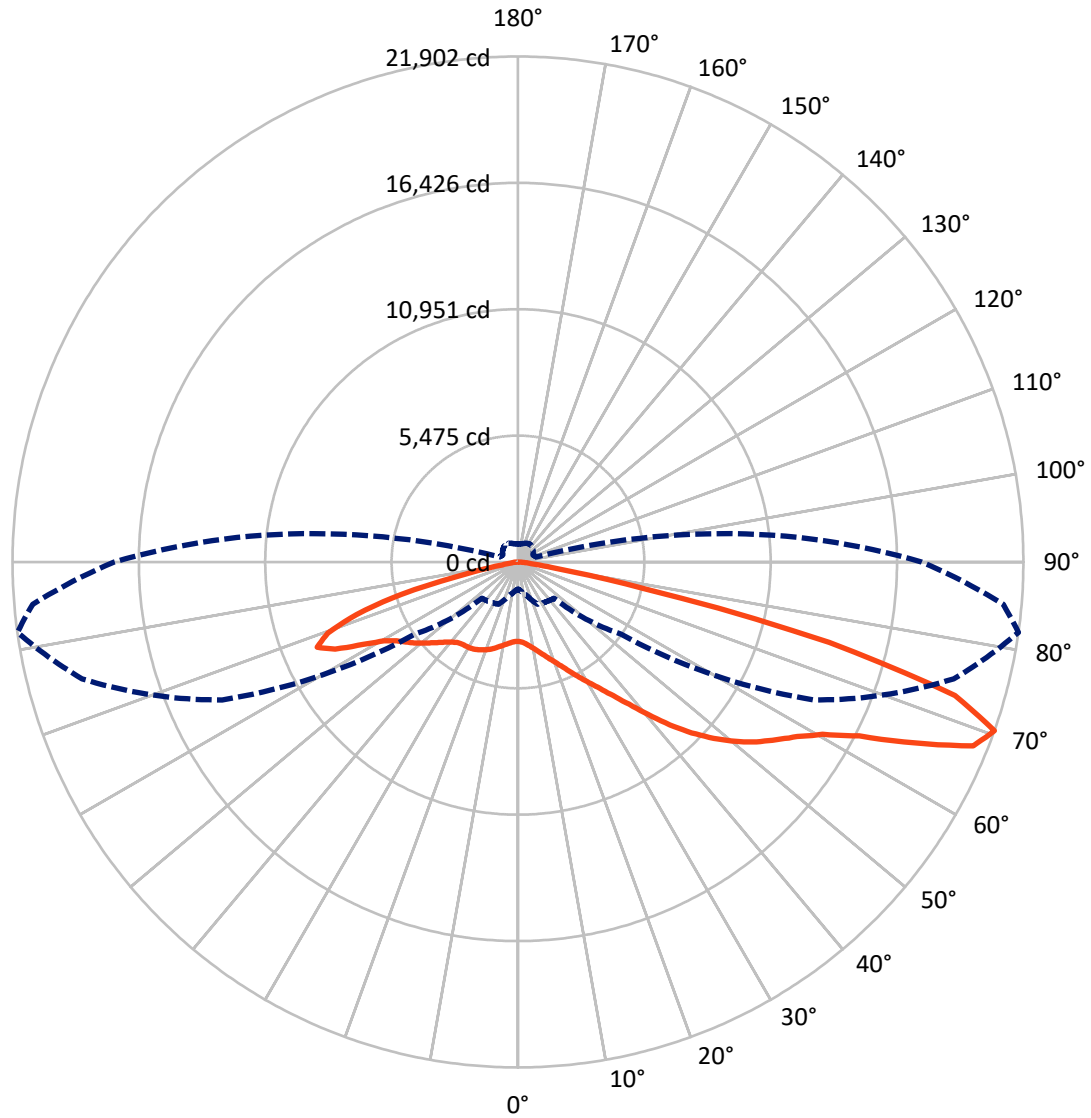
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	5777.8	0.0	5777.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	17659.2	0.0	17659.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	23437.0	0.0	23437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	1.4
10°-20°	932.1	4.0
20°-30°	1559.3	6.7
30°-40°	2436.1	10.4
40°-50°	3879.8	16.6
50°-60°	5399.2	23.0
60°-70°	5647.8	24.1
70°-80°	2951.8	12.6
80°-90°	306.5	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°	23437.0	100.0
0°-180°	23437.0	100.0

Coefficient of Utilization



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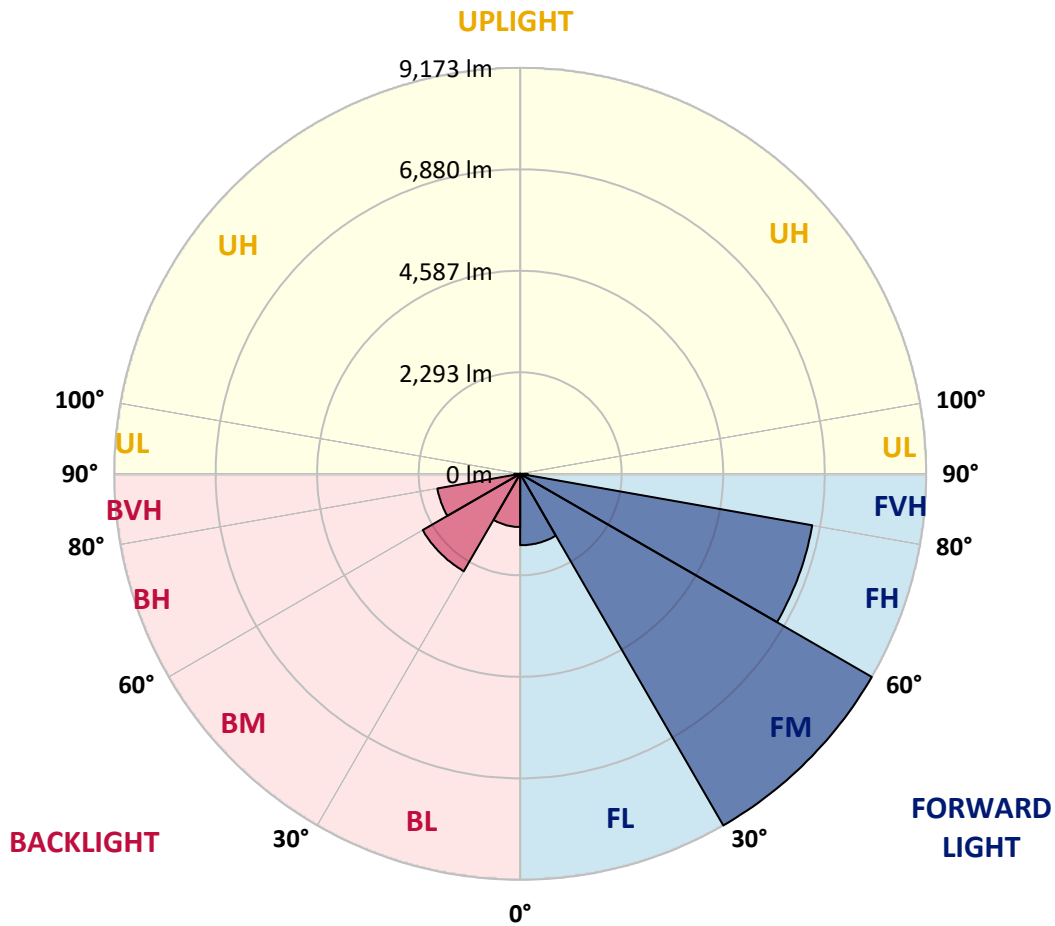
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.9	6.9			
FM (30°-60°)	9173.0	39.1			
FH (60°-80°)	6700.7	28.6			G3/7500
FVH (80°-90°)	171.6	0.7			G2/225
BL (0°-30°)	1202.0	5.1	B3/2500		
BM (30°-60°)	2542.0	10.8	B3/5000		
BH (60°-80°)	1898.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	134.9	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2
2.5°	3518.2	3538.1	3531.9	3525.7	3525.7	3517.0	3515.7	3503.3	3493.4	3477.2
5°	3563.0	3584.1	3581.7	3586.6	3602.8	3606.5	3610.3	3602.8	3582.9	3563.0
7.5°	3523.2	3546.8	3554.3	3584.1	3633.9	3678.7	3712.2	3725.9	3707.3	3678.7
10°	3388.9	3415.0	3441.1	3512.0	3600.3	3706.0	3795.6	3849.0	3845.3	3818.0
12.5°	3116.5	3143.9	3199.9	3337.9	3499.6	3686.1	3852.8	3964.7	4003.3	3983.4
15°	2898.9	2922.5	2964.8	3106.6	3316.8	3600.3	3873.9	4091.6	4189.8	4178.6
17.5°	2892.7	2902.6	2928.8	2995.9	3157.6	3466.0	3851.5	4215.9	4403.7	4402.5
20°	3002.1	3005.9	3020.8	3034.5	3126.5	3364.0	3794.3	4319.1	4643.7	4643.7
22.5°	3153.9	3151.4	3166.3	3153.9	3198.6	3355.3	3758.3	4409.9	4911.1	4931.0
25°	3381.4	3369.0	3365.3	3336.7	3345.4	3436.2	3798.1	4513.1	5228.2	5269.3
27.5°	3684.9	3665.0	3651.3	3585.4	3563.0	3602.8	3919.9	4637.5	5581.4	5652.3
30°	4080.4	4044.3	4024.4	3910.0	3829.1	3835.4	4104.0	4802.9	5950.8	6065.2
32.5°	4620.1	4564.1	4510.7	4322.9	4174.9	4126.4	4341.5	5031.7	6351.2	6534.0
35°	5224.5	5179.7	5122.5	4832.8	4605.2	4493.2	4662.4	5351.4	6820.1	7109.8
37.5°	5806.5	5768.0	5795.3	5404.8	5111.3	4948.4	5082.7	5780.4	7398.4	7826.2
40°	6408.4	6378.6	6382.3	6009.2	5667.2	5484.4	5592.6	6318.9	8061.2	8678.1
42.5°	7062.6	7040.2	6965.6	6634.8	6250.5	6080.1	6179.6	6940.7	8772.6	9648.1
45°	7795.1	7781.4	7711.8	7332.5	6892.2	6700.7	6835.0	7627.2	9487.7	10560.9
47.5°	8428.1	8439.3	8430.6	8111.0	7654.6	7373.5	7533.9	8343.5	10153.0	11419.0
50°	8732.8	8791.2	8877.1	8777.6	8494.0	8208.0	8239.1	9035.0	10787.3	12223.7
52.5°	8573.6	8684.3	8918.1	9077.3	9186.7	9127.0	9043.7	9721.5	11384.2	12949.9
55°	7980.4	8135.8	8523.9	8908.1	9466.5	9900.6	10010.0	10482.6	11966.2	13589.2
57.5°	6899.7	7152.1	7500.3	8277.6	9217.8	10274.9	11136.7	11538.4	12583.1	14271.9
60°	5046.7	5384.9	5817.7	6974.3	8347.3	10074.7	12095.6	13160.1	13459.8	15156.2
62.5°	3229.7	3438.6	3836.6	4926.0	6504.2	9048.7	12389.1	15187.2	14946.0	16606.2
65°	2211.2	2345.5	2709.9	3321.7	4204.7	6735.5	11603.1	16707.0	17306.4	18904.5
67.5°	1606.8	1708.8	2019.7	2555.7	2739.7	3985.8	9003.9	16637.3	19600.9	21272.3
70°	1171.5	1243.6	1504.8	2019.7	2108.0	2217.4	5454.6	14142.6	19551.2	21901.6
72.5°	868.1	917.8	1093.2	1567.0	1706.3	1497.3	2699.9	10278.6	16800.2	19809.8
75°	628.0	665.3	794.7	1198.9	1365.5	1140.4	1346.9	6006.7	11718.8	13934.9
77.5°	480.0	508.6	593.2	878.0	1093.2	855.6	835.7	2763.4	5556.6	5583.9
80°	385.5	404.2	450.2	618.1	838.2	640.5	544.7	1115.5	1756.0	1486.1
82.5°	283.5	314.6	380.6	434.0	599.4	441.5	332.0	563.4	667.8	574.6
85°	161.7	182.8	230.1	310.9	383.0	269.9	190.3	250.0	310.9	254.9
87.5°	57.2	74.6	80.8	121.9	166.6	111.9	73.4	72.1	102.0	75.9
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°
3436.2	0°	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2	3436.2
3473.5	2.5°	3461.0	3454.8	3429.9	3396.4	3361.5	3328.0	3316.8	3293.1	3277.0	3268.3
3554.3	5°	3530.7	3510.8	3452.3	3377.7	3299.4	3214.8	3155.1	3100.4	3060.6	3023.3
3665.0	7.5°	3630.2	3595.3	3494.6	3364.0	3224.7	3084.2	2979.7	2900.2	2846.7	2811.9
3794.3	10°	3745.8	3692.3	3538.1	3342.9	3127.7	2926.3	2803.1	2734.7	2701.2	2682.5
3942.3	12.5°	3878.9	3803.0	3582.9	3294.4	2979.7	2749.7	2665.1	2645.2	2646.5	2647.7
4128.9	15°	4043.1	3937.3	3619.0	3188.7	2787.0	2614.1	2599.2	2631.5	2665.1	2681.3
4340.3	17.5°	4228.4	4079.1	3625.2	3014.6	2597.9	2527.1	2574.3	2644.0	2695.0	2717.3
4576.6	20°	4427.3	4223.4	3580.4	2768.3	2442.5	2456.2	2540.7	2630.3	2686.2	2714.9
4846.4	22.5°	4654.9	4377.6	3473.5	2509.7	2315.6	2379.1	2478.6	2565.6	2624.1	2652.7
5163.6	25°	4914.8	4550.5	3305.6	2292.0	2206.2	2292.0	2391.5	2463.6	2510.9	2537.0
5518.0	27.5°	5203.4	4730.8	3081.7	2119.2	2110.4	2202.5	2284.6	2340.5	2365.4	2385.3
5894.8	30°	5493.1	4894.9	2810.6	1988.6	2027.1	2114.2	2172.6	2197.5	2205.0	2208.7
6315.2	32.5°	5806.5	5036.7	2525.8	1880.4	1947.5	2028.4	2063.2	2074.4	2039.6	2015.9
6825.1	35°	6185.8	5188.4	2247.2	1794.6	1869.2	1938.8	1950.0	1940.1	1899.0	1850.5
7464.3	37.5°	6654.7	5377.5	2024.6	1733.6	1795.8	1841.8	1828.1	1825.7	1829.4	1772.2
8232.8	40°	7229.2	5623.7	1861.7	1686.4	1736.1	1746.1	1707.5	1728.6	1747.3	1660.2
9076.0	42.5°	7867.2	5920.9	1758.5	1654.0	1686.4	1662.7	1603.0	1626.7	1624.2	1509.8
9922.9	45°	8517.6	6244.3	1722.4	1630.4	1640.4	1593.1	1527.2	1533.4	1481.2	1377.9
10735.0	47.5°	9164.3	6591.3	1744.8	1610.5	1583.1	1529.7	1478.7	1451.3	1374.2	1297.1
11513.6	50°	9798.6	6955.6	1826.9	1570.7	1504.8	1473.7	1436.4	1387.9	1305.8	1239.9
12249.8	52.5°	10386.8	7322.5	1918.9	1504.8	1406.5	1425.2	1401.6	1345.6	1264.8	1197.6
12946.2	55°	10944.0	7689.4	1955.0	1414.0	1314.5	1382.9	1369.2	1266.0	1169.0	1114.3
13675.0	57.5°	11550.9	8130.9	1915.2	1298.4	1239.9	1334.4	1282.2	1167.8	1111.8	1070.8
14623.9	60°	12391.6	8823.6	1829.4	1155.3	1169.0	1262.3	1172.7	1125.5	1064.5	1018.5
16046.6	62.5°	13788.2	10115.7	1691.3	1013.6	1085.7	1155.3	1120.5	1073.3	1011.1	966.3
18479.1	65°	15852.6	11911.5	1431.4	902.9	992.4	1050.9	1064.5	1017.3	952.6	905.4
20610.7	67.5°	17593.7	13038.2	1083.2	810.8	896.7	966.3	1004.9	958.8	890.4	844.4
21109.4	70°	17497.9	12219.9	827.0	720.1	812.1	883.0	932.7	896.7	823.3	779.8
19174.3	72.5°	15541.7	10222.7	669.1	628.0	726.3	795.9	855.6	828.3	753.6	711.4
14046.8	75°	11417.8	7256.6	534.8	534.8	619.3	705.1	771.1	753.6	685.2	655.4
5897.3	77.5°	4812.9	3044.4	419.1	444.0	514.9	605.6	687.7	693.9	634.3	671.6
1559.5	80°	1279.7	839.5	319.6	349.5	404.2	499.9	598.2	595.7	531.0	496.2
579.5	82.5°	487.5	330.8	227.6	246.2	292.3	383.0	473.8	488.7	424.1	366.9
227.6	85°	187.8	141.8	140.5	148.0	170.4	253.7	358.2	370.6	319.6	271.1
63.4	87.5°	48.5	42.3	52.2	49.7	78.3	135.6	205.2	212.7	195.3	113.2
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>
3436.2
3278.2
3038.2
2819.3
2687.5
2650.2
2680.0
2722.3
2722.3
2660.1
2544.5
2392.7
2217.4
2023.4
1853.0
1775.9
1662.7
1508.5
1381.7
1297.1
1234.9
1198.9
1109.3
1067.0
1016.0
966.3
907.9
845.7
783.5
711.4
646.7
609.4
461.4
366.9
279.8
161.7
0.0

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