

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: P940955

Luminaire Tested: **GALN-SB4B-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940955  
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-SB4B-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22361 lumens  
Efficiency: N/A  
Efficacy: 152.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

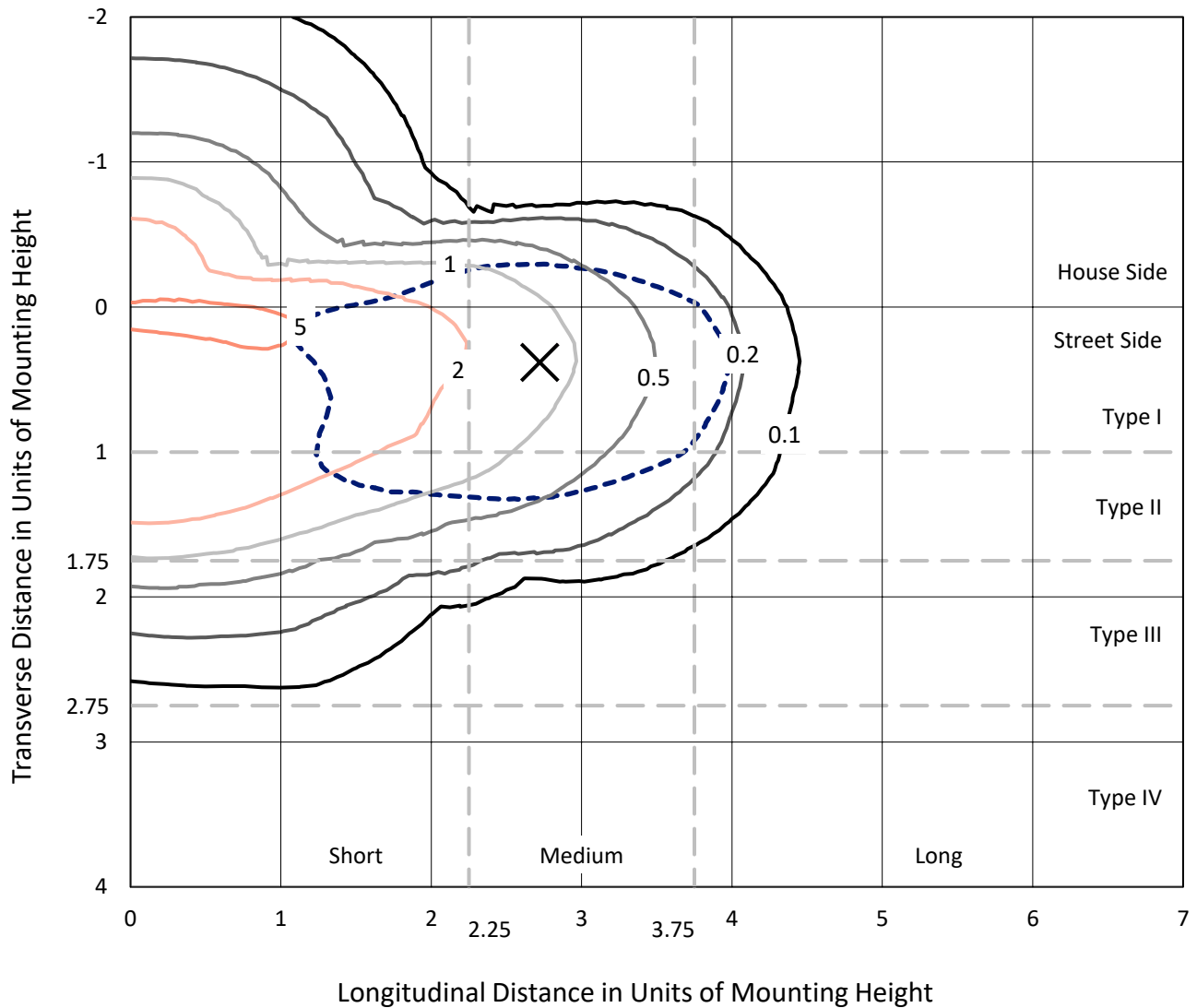
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

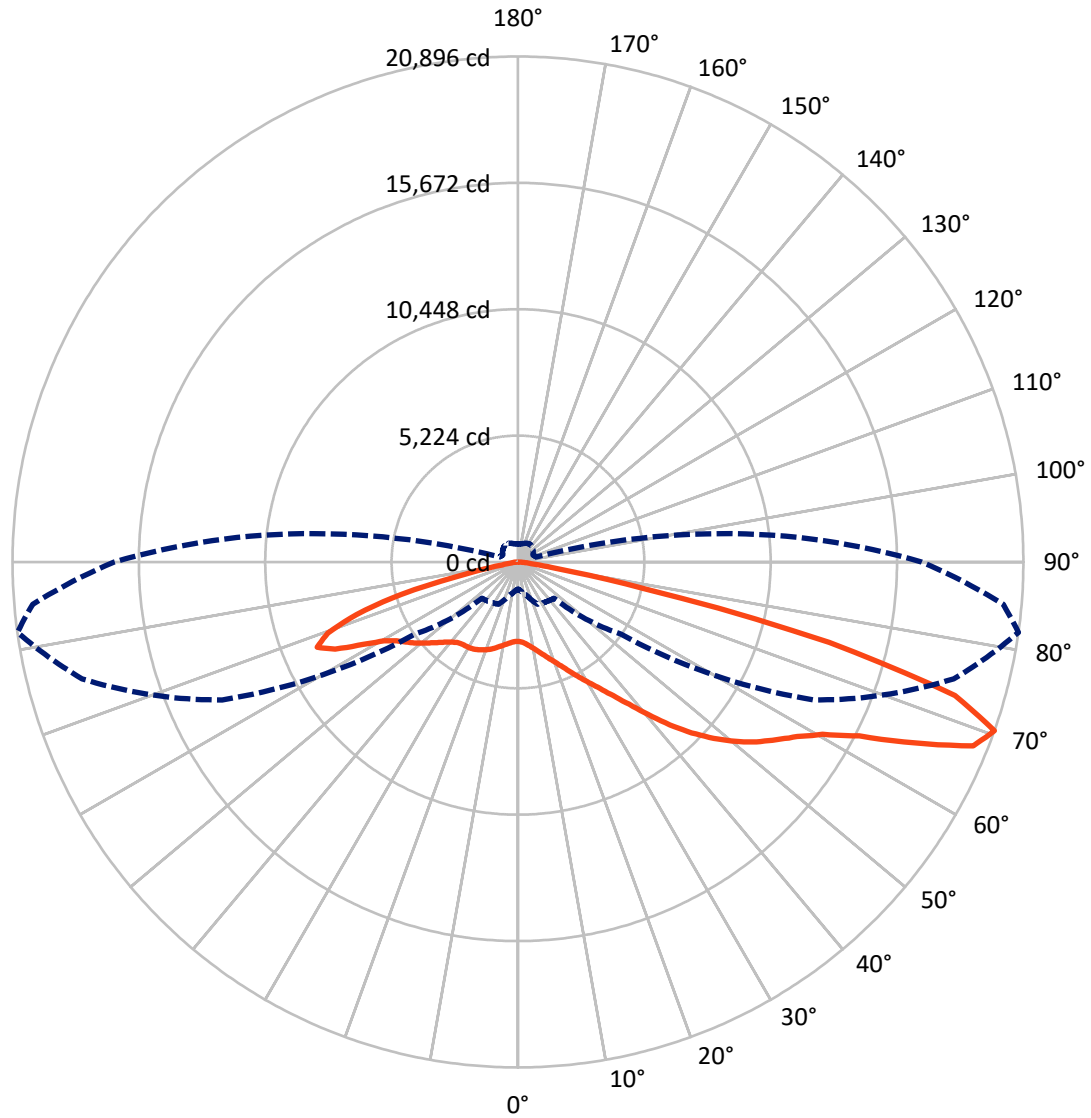
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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
<b>House Side</b>	Lumens	5512.5	0.0	5512.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	16848.5	0.0	16848.5
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	22361.0	0.0	22361.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.5	1.4
10°-20°	889.3	4.0
20°-30°	1487.8	6.7
30°-40°	2324.2	10.4
40°-50°	3701.6	16.6
50°-60°	5151.3	23.0
60°-70°	5388.5	24.1
70°-80°	2816.3	12.6
80°-90°	292.4	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°	22361.0	100.0
0°-180°	22361.0	100.0

**Coefficient of Utilization**



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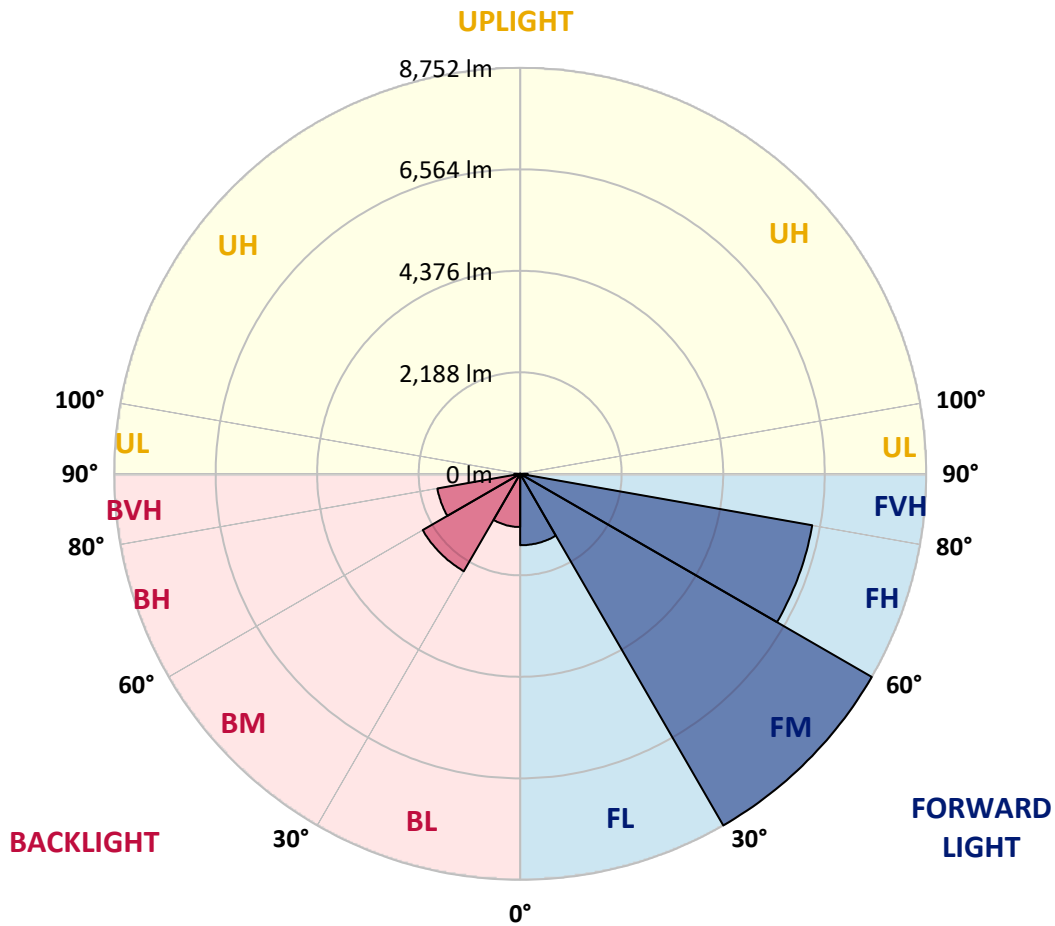
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.8	6.9			
FM (30°-60°)	8751.9	39.1			
FH (60°-80°)	6393.1	28.6			G3/7500
FVH (80°-90°)	163.7	0.7			G2/225
BL (0°-30°)	1146.8	5.1	B3/2500		
BM (30°-60°)	2425.3	10.8	B2/2500		
BH (60°-80°)	1811.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	128.7	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°	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4
2.5°	3356.7	3375.7	3369.8	3363.8	3363.8	3355.5	3354.3	3342.5	3333.0	3317.6
5°	3399.4	3419.6	3417.2	3422.0	3437.4	3441.0	3444.5	3437.4	3418.4	3399.4
7.5°	3361.5	3384.0	3391.1	3419.6	3467.1	3509.8	3541.8	3554.9	3537.1	3509.8
10°	3233.3	3258.2	3283.1	3350.8	3435.0	3535.9	3621.3	3672.3	3668.8	3642.7
12.5°	2973.5	2999.6	3053.0	3184.7	3338.9	3516.9	3675.9	3782.7	3819.5	3800.5
15°	2765.8	2788.4	2828.7	2964.0	3164.5	3435.0	3696.1	3903.7	3997.4	3986.8
17.5°	2759.9	2769.4	2794.3	2858.4	3012.6	3306.9	3674.7	4022.4	4201.5	4200.3
20°	2864.3	2867.9	2882.1	2895.2	2983.0	3209.6	3620.1	4120.8	4430.5	4430.5
22.5°	3009.1	3006.7	3020.9	3009.1	3051.8	3201.3	3585.7	4207.5	4685.6	4704.6
25°	3226.2	3214.3	3210.8	3183.5	3191.8	3278.4	3623.7	4305.9	4988.2	5027.4
27.5°	3515.7	3496.7	3483.7	3420.8	3399.4	3437.4	3740.0	4424.6	5325.2	5392.8
30°	3893.0	3858.6	3839.6	3730.5	3653.3	3659.3	3915.6	4582.4	5677.6	5786.7
32.5°	4408.0	4354.6	4303.6	4124.4	3983.2	3936.9	4142.2	4800.7	6059.6	6234.1
35°	4984.6	4941.9	4887.3	4610.9	4393.7	4287.0	4448.3	5105.7	6507.0	6783.4
37.5°	5539.9	5503.2	5529.3	5156.7	4876.7	4721.2	4849.4	5515.0	7058.7	7466.9
40°	6114.2	6085.7	6089.3	5733.3	5407.0	5232.6	5335.9	6028.8	7691.1	8279.7
42.5°	6738.3	6717.0	6645.8	6330.2	5963.5	5801.0	5895.9	6622.1	8369.8	9205.2
45°	7437.2	7424.2	7357.7	6995.8	6575.8	6393.1	6521.2	7277.0	9052.1	10076.1
47.5°	8041.2	8051.8	8043.5	7738.6	7303.1	7035.0	7188.0	7960.5	9686.9	10894.8
50°	8331.9	8387.6	8469.5	8374.6	8104.0	7831.1	7860.8	8620.2	10292.0	11662.5
52.5°	8180.0	8285.6	8508.7	8660.5	8765.0	8708.0	8628.5	9275.2	10861.6	12355.4
55°	7614.0	7762.3	8132.5	8499.2	9031.9	9446.0	9550.4	10001.3	11416.9	12965.3
57.5°	6582.9	6823.8	7156.0	7897.6	8794.6	9803.2	10625.4	11008.7	12005.4	13616.7
60°	4815.0	5137.7	5550.6	6654.1	7964.0	9612.1	11540.3	12555.9	12841.9	14460.3
62.5°	3081.4	3280.8	3660.5	4699.9	6205.6	8633.2	11820.3	14490.0	14259.8	15843.8
65°	2109.7	2237.8	2585.5	3169.2	4011.7	6426.3	11070.4	15939.9	16511.9	18036.6
67.5°	1533.0	1630.3	1926.9	2438.3	2613.9	3802.9	8590.5	15873.5	18701.0	20295.7
70°	1117.7	1186.5	1435.7	1926.9	2011.2	2115.6	5204.2	13493.3	18653.6	20896.1
72.5°	828.2	875.7	1043.0	1495.0	1627.9	1428.6	2576.0	9806.7	16028.9	18900.4
75°	599.2	634.8	758.2	1143.8	1302.8	1088.1	1285.0	5731.0	11180.7	13295.1
77.5°	458.0	485.3	566.0	837.7	1043.0	816.3	797.4	2636.5	5301.4	5327.6
80°	367.8	385.6	429.5	589.7	799.7	611.1	519.7	1064.3	1675.4	1417.9
82.5°	270.5	300.2	363.1	414.1	571.9	421.2	316.8	537.5	637.2	548.2
85°	154.2	174.4	219.5	296.6	365.5	257.5	181.5	238.5	296.6	243.2
87.5°	54.6	71.2	77.1	116.3	159.0	106.8	70.0	68.8	97.3	72.4
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°
3278.4	0°	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4	3278.4
3314.0	2.5°	3302.1	3296.2	3272.5	3240.4	3207.2	3175.2	3164.5	3142.0	3126.5	3118.2
3391.1	5°	3368.6	3349.6	3293.8	3222.6	3147.9	3067.2	3010.2	2958.0	2920.1	2884.5
3496.7	7.5°	3463.5	3430.3	3334.2	3209.6	3076.7	2942.6	2842.9	2767.0	2716.0	2682.8
3620.1	10°	3573.8	3522.8	3375.7	3189.4	2984.1	2791.9	2674.5	2609.2	2577.2	2559.4
3761.3	12.5°	3700.8	3628.4	3418.4	3143.1	2842.9	2623.4	2542.7	2523.8	2525.0	2526.1
3939.3	15°	3857.4	3756.6	3452.8	3042.3	2659.0	2494.1	2479.9	2510.7	2542.7	2558.2
4141.0	17.5°	4034.2	3891.8	3458.8	2876.2	2478.7	2411.0	2456.1	2522.6	2571.2	2592.6
4366.5	20°	4224.1	4029.5	3416.0	2641.2	2330.4	2343.4	2424.1	2509.5	2562.9	2590.2
4623.9	22.5°	4441.2	4176.6	3314.0	2394.4	2209.3	2269.8	2364.8	2447.8	2503.6	2530.9
4926.5	25°	4689.2	4341.5	3153.8	2186.8	2104.9	2186.8	2281.7	2350.5	2395.6	2420.5
5264.7	27.5°	4964.5	4513.6	2940.2	2021.9	2013.6	2101.4	2179.7	2233.1	2256.8	2275.8
5624.2	30°	5240.9	4670.2	2681.6	1897.3	1934.1	2017.1	2072.9	2096.6	2103.7	2107.3
6025.2	32.5°	5539.9	4805.5	2409.9	1794.0	1858.1	1935.2	1968.5	1979.1	1945.9	1923.4
6511.7	35°	5901.8	4950.2	2144.1	1712.2	1783.4	1849.8	1860.5	1851.0	1811.8	1765.6
7121.6	37.5°	6349.2	5130.6	1931.7	1654.0	1713.4	1757.3	1744.2	1741.8	1745.4	1690.8
7854.9	40°	6897.3	5365.5	1776.2	1608.9	1656.4	1665.9	1629.1	1649.3	1667.1	1584.0
8659.3	42.5°	7506.0	5649.1	1677.8	1578.1	1608.9	1586.4	1529.4	1552.0	1549.6	1440.5
9467.4	45°	8126.6	5957.6	1643.4	1555.6	1565.0	1520.0	1457.1	1463.0	1413.2	1314.7
10242.2	47.5°	8743.6	6288.6	1664.7	1536.6	1510.5	1459.4	1410.8	1384.7	1311.1	1237.6
10985.0	50°	9348.7	6636.3	1743.0	1498.6	1435.7	1406.0	1370.5	1324.2	1245.9	1183.0
11687.4	52.5°	9910.0	6986.3	1830.8	1435.7	1342.0	1359.8	1337.2	1283.8	1206.7	1142.6
12351.9	55°	10441.5	7336.4	1865.2	1349.1	1254.2	1319.4	1306.4	1207.9	1115.3	1063.1
13047.2	57.5°	11020.6	7757.6	1827.3	1238.7	1183.0	1273.2	1223.3	1114.2	1060.8	1021.6
13952.5	60°	11822.7	8418.5	1745.4	1102.3	1115.3	1204.3	1118.9	1073.8	1015.7	971.8
15309.9	62.5°	13155.1	9651.3	1613.7	967.0	1035.8	1102.3	1069.1	1024.0	964.7	921.9
17630.8	65°	15124.8	11364.7	1365.7	861.4	946.9	1002.6	1015.7	970.6	908.9	863.8
19664.5	67.5°	16785.9	12439.7	1033.5	773.6	855.5	921.9	958.7	914.8	849.6	805.7
20140.3	70°	16694.6	11658.9	789.0	687.0	774.8	842.4	889.9	855.5	785.5	744.0
18294.0	72.5°	14828.2	9753.3	638.4	599.2	692.9	759.4	816.3	790.2	719.0	678.7
13401.9	75°	10893.6	6923.4	510.2	510.2	590.9	672.8	735.7	719.0	653.8	625.3
5626.6	77.5°	4591.9	2904.6	399.9	423.6	491.2	577.8	656.2	662.1	605.1	640.7
1487.9	80°	1220.9	800.9	304.9	333.4	385.6	477.0	570.7	568.4	506.7	473.4
552.9	82.5°	465.1	315.6	217.1	234.9	278.8	365.5	452.1	466.3	404.6	350.0
217.1	85°	179.2	135.3	134.1	141.2	162.6	242.1	341.7	353.6	304.9	258.7
60.5	87.5°	46.3	40.3	49.8	47.5	74.8	129.3	195.8	202.9	186.3	108.0
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>
3278.4
3127.7
2898.7
2689.9
2564.1
2528.5
2557.0
2597.3
2597.3
2538.0
2427.7
2282.9
2115.6
1930.5
1767.9
1694.4
1586.4
1439.3
1318.2
1237.6
1178.2
1143.8
1058.4
1018.0
969.4
921.9
866.2
806.8
747.5
678.7
617.0
581.4
440.2
350.0
267.0
154.2
0.0

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