

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: P940805

Luminaire Tested: **GALN-SB4A-750-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940805  
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-SB4A-750-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18846 lumens  
Efficiency: N/A  
Efficacy: 165.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

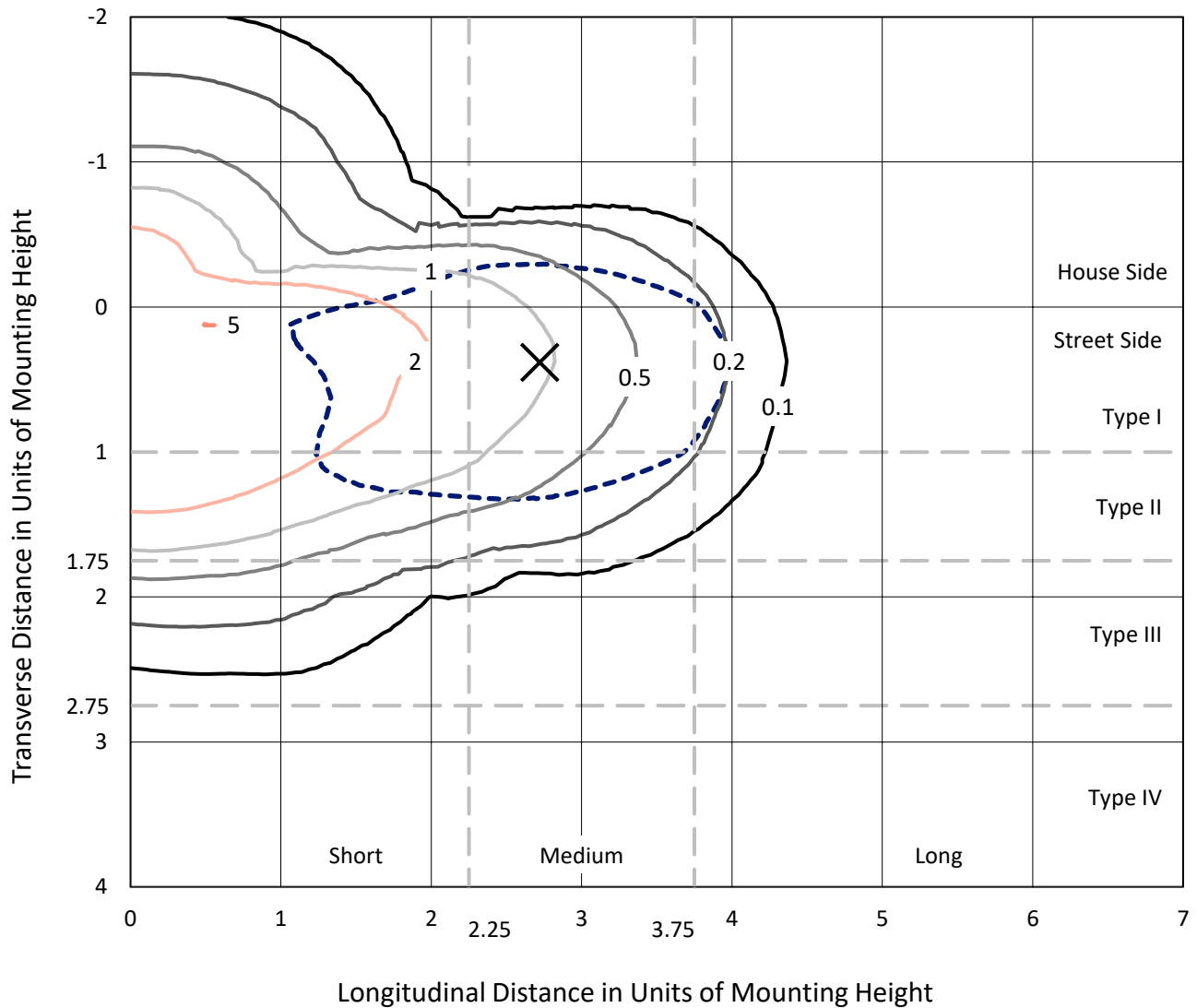
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

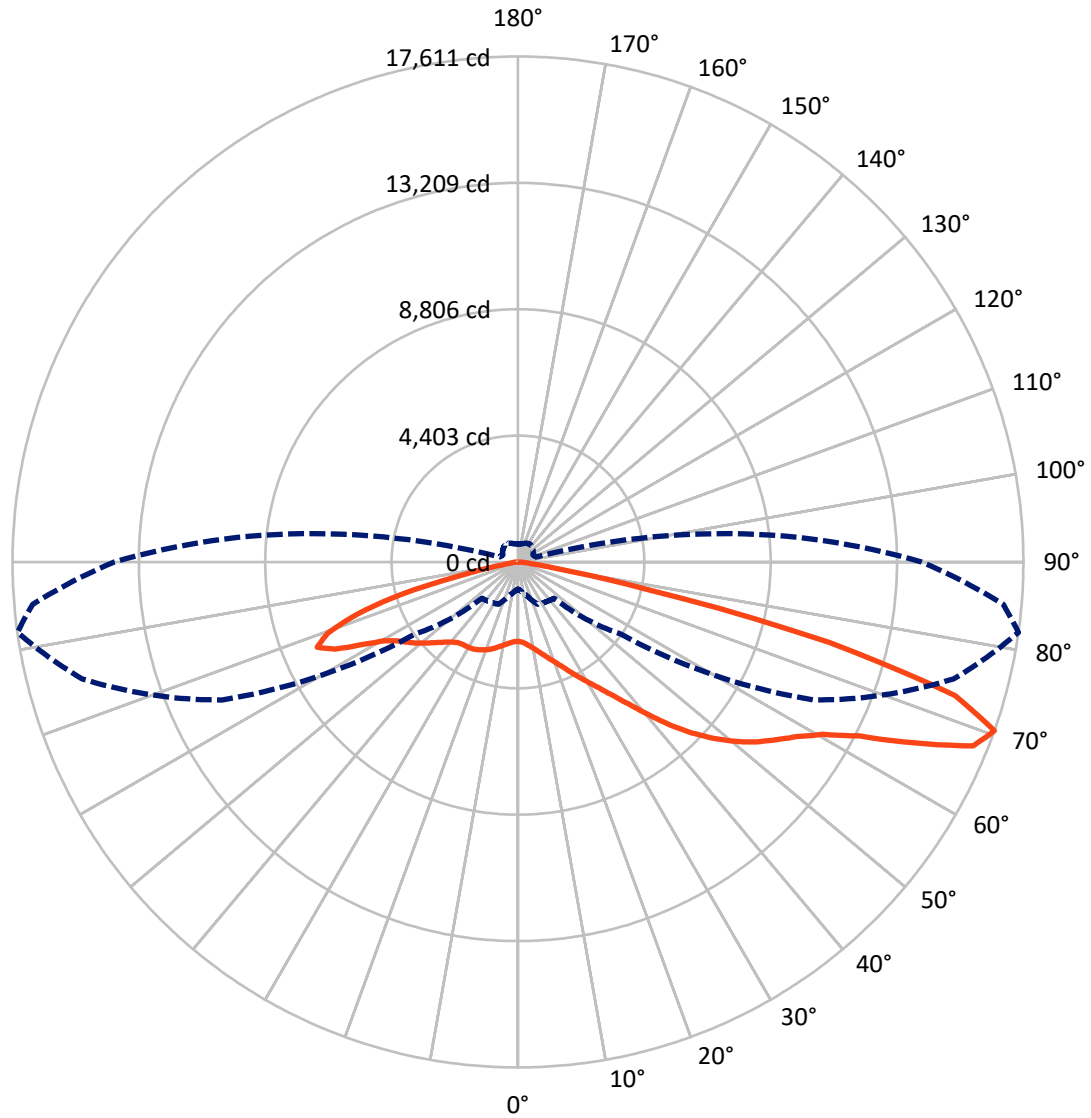
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	4646.0	0.0	4646.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	14200.0	0.0	14200.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	18846.0	0.0	18846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	1.4
10°-20°	749.5	4.0
20°-30°	1253.9	6.7
30°-40°	1958.9	10.4
40°-50°	3119.8	16.6
50°-60°	4341.5	23.0
60°-70°	4541.4	24.1
70°-80°	2373.6	12.6
80°-90°	246.5	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°	18846.0	100.0
0°-180°	18846.0	100.0

**Coefficient of Utilization**



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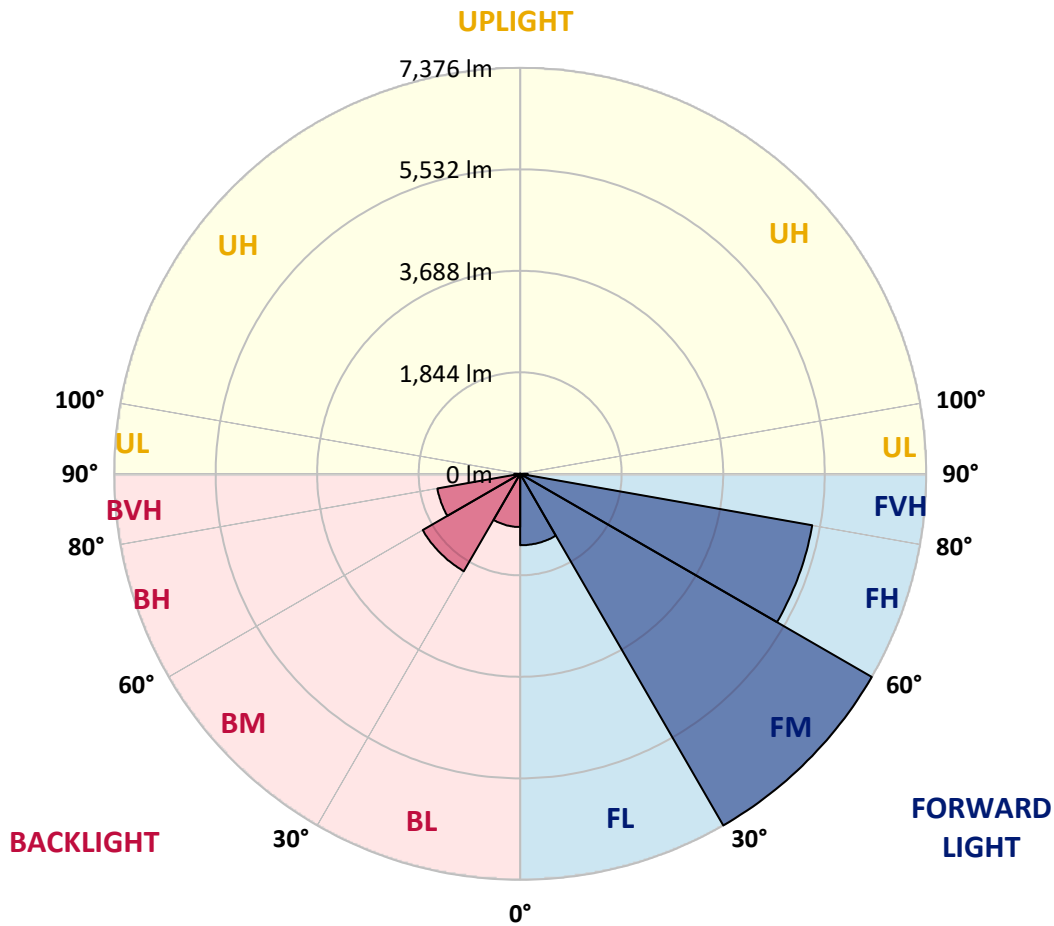
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.8	6.9			
FM (30°-60°)	7376.1	39.1			
FH (60°-80°)	5388.1	28.6			G3/7500
FVH (80°-90°)	138.0	0.7			G2/225
BL (0°-30°)	966.5	5.1	B2/1000		
BM (30°-60°)	2044.0	10.8	B2/2500		
BH (60°-80°)	1526.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	108.5	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°	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1
2.5°	2829.1	2845.1	2840.1	2835.1	2835.1	2828.1	2827.1	2817.1	2809.1	2796.1
5°	2865.1	2882.1	2880.1	2884.1	2897.1	2900.1	2903.1	2897.1	2881.1	2865.1
7.5°	2833.1	2852.1	2858.1	2882.1	2922.1	2958.1	2985.1	2996.1	2981.1	2958.1
10°	2725.1	2746.1	2767.1	2824.1	2895.1	2980.1	3052.1	3095.1	3092.1	3070.1
12.5°	2506.1	2528.1	2573.1	2684.1	2814.1	2964.1	3098.1	3188.1	3219.1	3203.1
15°	2331.0	2350.1	2384.1	2498.1	2667.1	2895.1	3115.1	3290.1	3369.1	3360.1
17.5°	2326.0	2334.1	2355.1	2409.1	2539.1	2787.1	3097.1	3390.1	3541.1	3540.1
20°	2414.1	2417.1	2429.1	2440.1	2514.1	2705.1	3051.1	3473.1	3734.1	3734.1
22.5°	2536.1	2534.1	2546.1	2536.1	2572.1	2698.1	3022.1	3546.1	3949.1	3965.1
25°	2719.1	2709.1	2706.1	2683.1	2690.1	2763.1	3054.1	3629.1	4204.1	4237.1
27.5°	2963.1	2947.1	2936.1	2883.1	2865.1	2897.1	3152.1	3729.1	4488.1	4545.1
30°	3281.1	3252.1	3236.1	3144.1	3079.1	3084.1	3300.1	3862.1	4785.1	4877.1
32.5°	3715.1	3670.1	3627.1	3476.1	3357.1	3318.1	3491.1	4046.1	5107.1	5254.1
35°	4201.1	4165.1	4119.1	3886.1	3703.1	3613.1	3749.1	4303.1	5484.1	5717.1
37.5°	4669.1	4638.1	4660.1	4346.1	4110.1	3979.1	4087.1	4648.1	5949.1	6293.1
40°	5153.1	5129.1	5132.1	4832.1	4557.1	4410.1	4497.1	5081.1	6482.1	6978.1
42.5°	5679.1	5661.1	5601.1	5335.1	5026.1	4889.1	4969.1	5581.1	7054.2	7758.2
45°	6268.1	6257.1	6201.1	5896.1	5542.1	5388.1	5496.1	6133.1	7629.2	8492.2
47.5°	6777.1	6786.1	6779.1	6522.1	6155.1	5929.1	6058.1	6709.1	8164.2	9182.2
50°	7022.2	7069.2	7138.2	7058.2	6830.1	6600.1	6625.1	7265.2	8674.2	9829.2
52.5°	6894.1	6983.1	7171.2	7299.2	7387.2	7339.2	7272.2	7817.2	9154.2	10413.2
55°	6417.1	6542.1	6854.1	7163.2	7612.2	7961.2	8049.2	8429.2	9622.2	10927.2
57.5°	5548.1	5751.1	6031.1	6656.1	7412.2	8262.2	8955.2	9278.2	10118.2	11476.2
60°	4058.1	4330.1	4678.1	5608.1	6712.1	8101.2	9726.2	10582.2	10823.2	12187.3
62.5°	2597.1	2765.1	3085.1	3961.1	5230.1	7276.2	9962.2	12212.3	12018.3	13353.3
65°	1778.0	1886.0	2179.0	2671.1	3381.1	5416.1	9330.2	13434.3	13916.3	15201.3
67.5°	1292.0	1374.0	1624.0	2055.0	2203.0	3205.1	7240.2	13378.3	15761.3	17105.4
70°	942.0	1000.0	1210.0	1624.0	1695.0	1783.0	4386.1	11372.2	15721.3	17611.4
72.5°	698.0	738.0	879.0	1260.0	1372.0	1204.0	2171.0	8265.2	13509.3	15929.3
75°	505.0	535.0	639.0	964.0	1098.0	917.0	1083.0	4830.1	9423.2	11205.2
77.5°	386.0	409.0	477.0	706.0	879.0	688.0	672.0	2222.0	4468.1	4490.1
80°	310.0	325.0	362.0	497.0	674.0	515.0	438.0	897.0	1412.0	1195.0
82.5°	228.0	253.0	306.0	349.0	482.0	355.0	267.0	453.0	537.0	462.0
85°	130.0	147.0	185.0	250.0	308.0	217.0	153.0	201.0	250.0	205.0
87.5°	46.0	60.0	65.0	98.0	134.0	90.0	59.0	58.0	82.0	61.0
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°
2763.1	0°	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1
2793.1	2.5°	2783.1	2778.1	2758.1	2731.1	2703.1	2676.1	2667.1	2648.1	2635.1	2628.1
2858.1	5°	2839.1	2823.1	2776.1	2716.1	2653.1	2585.1	2537.1	2493.1	2461.1	2431.1
2947.1	7.5°	2919.1	2891.1	2810.1	2705.1	2593.1	2480.1	2396.1	2332.1	2289.0	2261.0
3051.1	10°	3012.1	2969.1	2845.1	2688.1	2515.1	2353.1	2254.0	2199.0	2172.0	2157.0
3170.1	12.5°	3119.1	3058.1	2881.1	2649.1	2396.1	2211.0	2143.0	2127.0	2128.0	2129.0
3320.1	15°	3251.1	3166.1	2910.1	2564.1	2241.0	2102.0	2090.0	2116.0	2143.0	2156.0
3490.1	17.5°	3400.1	3280.1	2915.1	2424.1	2089.0	2032.0	2070.0	2126.0	2167.0	2185.0
3680.1	20°	3560.1	3396.1	2879.1	2226.0	1964.0	1975.0	2043.0	2115.0	2160.0	2183.0
3897.1	22.5°	3743.1	3520.1	2793.1	2018.0	1862.0	1913.0	1993.0	2063.0	2110.0	2133.0
4152.1	25°	3952.1	3659.1	2658.1	1843.0	1774.0	1843.0	1923.0	1981.0	2019.0	2040.0
4437.1	27.5°	4184.1	3804.1	2478.1	1704.0	1697.0	1771.0	1837.0	1882.0	1902.0	1918.0
4740.1	30°	4417.1	3936.1	2260.0	1599.0	1630.0	1700.0	1747.0	1767.0	1773.0	1776.0
5078.1	32.5°	4669.1	4050.1	2031.0	1512.0	1566.0	1631.0	1659.0	1668.0	1640.0	1621.0
5488.1	35°	4974.1	4172.1	1807.0	1443.0	1503.0	1559.0	1568.0	1560.0	1527.0	1488.0
6002.1	37.5°	5351.1	4324.1	1628.0	1394.0	1444.0	1481.0	1470.0	1468.0	1471.0	1425.0
6620.1	40°	5813.1	4522.1	1497.0	1356.0	1396.0	1404.0	1373.0	1390.0	1405.0	1335.0
7298.2	42.5°	6326.1	4761.1	1414.0	1330.0	1356.0	1337.0	1289.0	1308.0	1306.0	1214.0
7979.2	45°	6849.1	5021.1	1385.0	1311.0	1319.0	1281.0	1228.0	1233.0	1191.0	1108.0
8632.2	47.5°	7369.2	5300.1	1403.0	1295.0	1273.0	1230.0	1189.0	1167.0	1105.0	1043.0
9258.2	50°	7879.2	5593.1	1469.0	1263.0	1210.0	1185.0	1155.0	1116.0	1050.0	997.0
9850.2	52.5°	8352.2	5888.1	1543.0	1210.0	1131.0	1146.0	1127.0	1082.0	1017.0	963.0
10410.2	55°	8800.2	6183.1	1572.0	1137.0	1057.0	1112.0	1101.0	1018.0	940.0	896.0
10996.2	57.5°	9288.2	6538.1	1540.0	1044.0	997.0	1073.0	1031.0	939.0	894.0	861.0
11759.3	60°	9964.2	7095.2	1471.0	929.0	940.0	1015.0	943.0	905.0	856.0	819.0
12903.3	62.5°	11087.2	8134.2	1360.0	815.0	873.0	929.0	901.0	863.0	813.0	777.0
14859.3	65°	12747.3	9578.2	1151.0	726.0	798.0	845.0	856.0	818.0	766.0	728.0
16573.4	67.5°	14147.3	10484.2	871.0	652.0	721.0	777.0	808.0	771.0	716.0	679.0
16974.4	70°	14070.3	9826.2	665.0	579.0	653.0	710.0	750.0	721.0	662.0	627.0
15418.3	72.5°	12497.3	8220.2	538.0	505.0	584.0	640.0	688.0	666.0	606.0	572.0
11295.2	75°	9181.2	5835.1	430.0	430.0	498.0	567.0	620.0	606.0	551.0	527.0
4742.1	77.5°	3870.1	2448.1	337.0	357.0	414.0	487.0	553.0	558.0	510.0	540.0
1254.0	80°	1029.0	675.0	257.0	281.0	325.0	402.0	481.0	479.0	427.0	399.0
466.0	82.5°	392.0	266.0	183.0	198.0	235.0	308.0	381.0	393.0	341.0	295.0
183.0	85°	151.0	114.0	113.0	119.0	137.0	204.0	288.0	298.0	257.0	218.0
51.0	87.5°	39.0	34.0	42.0	40.0	63.0	109.0	165.0	171.0	157.0	91.0
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>
2763.1
2636.1
2443.1
2267.0
2161.0
2131.0
2155.0
2189.0
2189.0
2139.0
2046.0
1924.0
1783.0
1627.0
1490.0
1428.0
1337.0
1213.0
1111.0
1043.0
993.0
964.0
892.0
858.0
817.0
777.0
730.0
680.0
630.0
572.0
520.0
490.0
371.0
295.0
225.0
130.0
0.0

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