

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: P941515

Luminaire Tested: **GALN-SB5A-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941515
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-SB5A-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20174 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

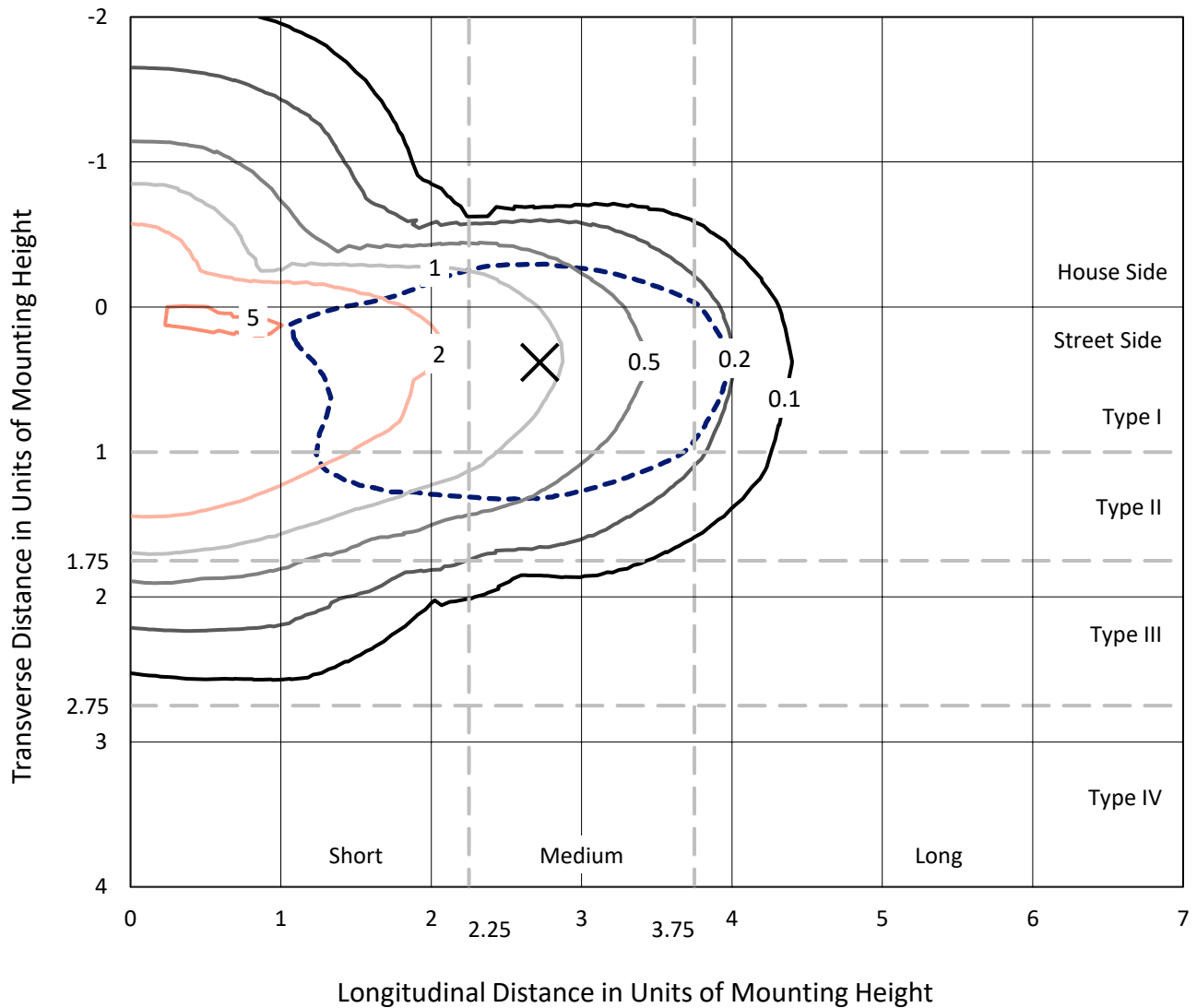
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

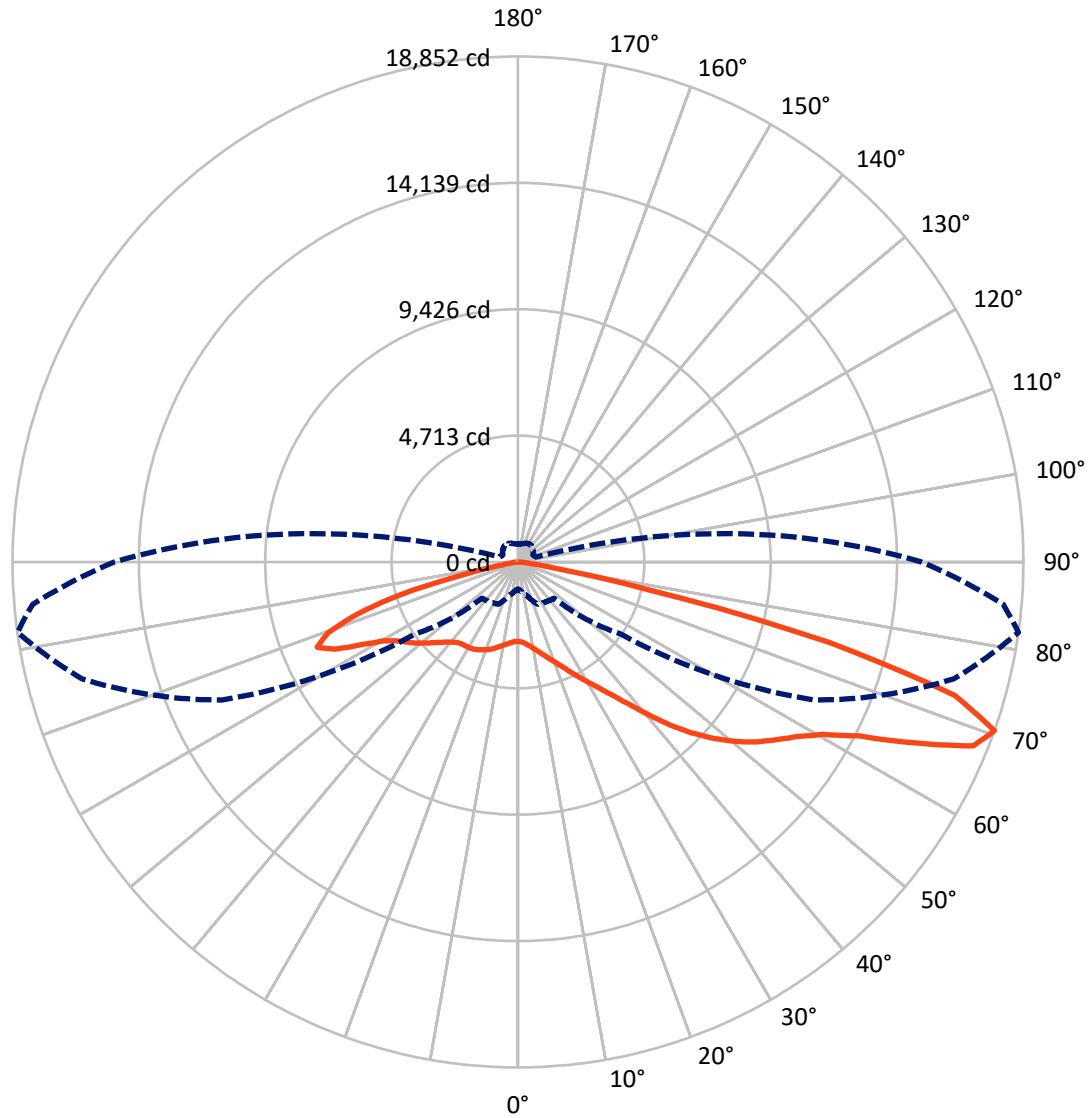
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	4973.4	0.0	4973.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15200.6	0.0	15200.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	20174.0	0.0	20174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	1.4
10°-20°	802.3	4.0
20°-30°	1342.2	6.7
30°-40°	2096.9	10.4
40°-50°	3339.6	16.6
50°-60°	4647.5	23.0
60°-70°	4861.5	24.1
70°-80°	2540.9	12.6
80°-90°	263.8	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°	20174.0	100.0
0°-180°	20174.0	100.0

Coefficient of Utilization



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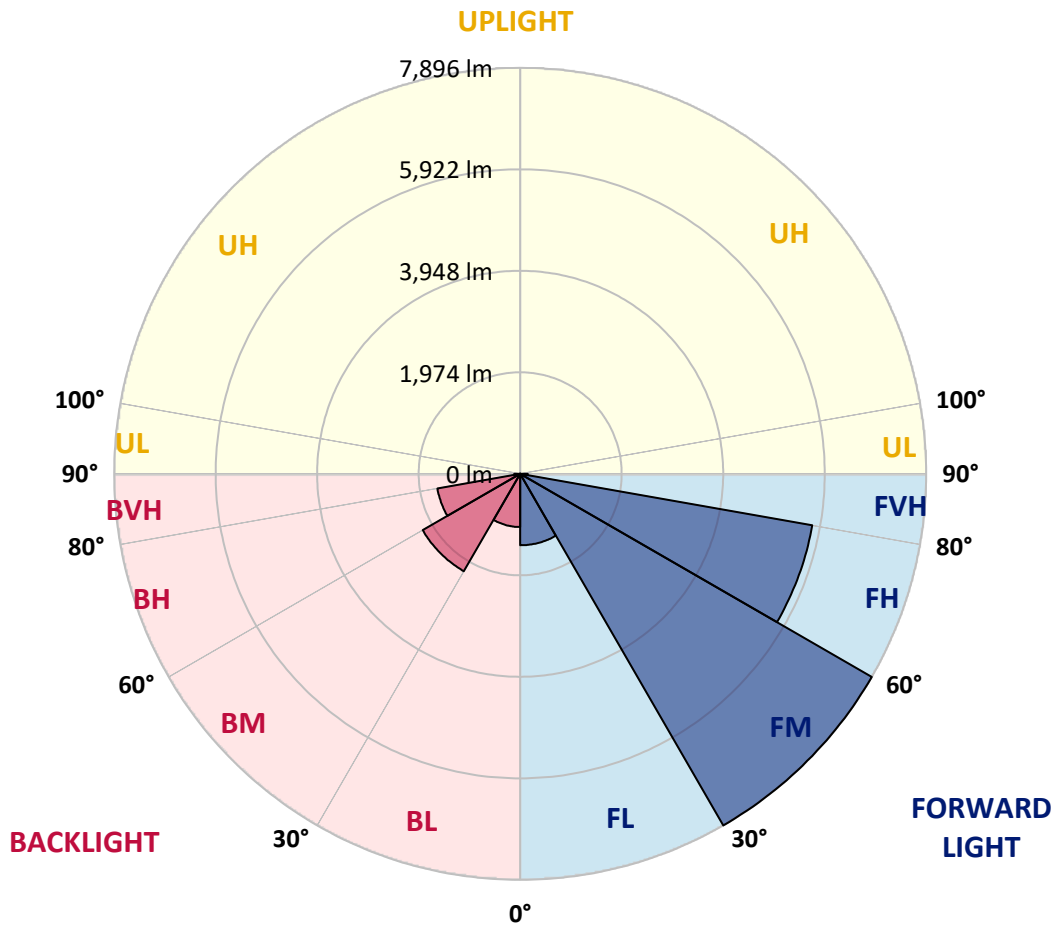
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.2	6.9			
FM (30°-60°)	7895.9	39.1			
FH (60°-80°)	5767.8	28.6			G3/7500
FVH (80°-90°)	147.7	0.7			G2/225
BL (0°-30°)	1034.6	5.1	B3/2500		
BM (30°-60°)	2188.1	10.8	B2/2500		
BH (60°-80°)	1634.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	116.1	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°	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8
2.5°	3028.4	3045.5	3040.2	3034.8	3034.8	3027.3	3026.3	3015.6	3007.0	2993.1
5°	3067.0	3085.1	3083.0	3087.3	3101.2	3104.4	3107.6	3101.2	3084.1	3067.0
7.5°	3032.7	3053.0	3059.5	3085.1	3128.0	3166.5	3195.4	3207.2	3191.1	3166.5
10°	2917.1	2939.6	2962.0	3023.1	3099.1	3190.1	3267.1	3313.2	3310.0	3286.4
12.5°	2682.6	2706.2	2754.4	2873.2	3012.4	3172.9	3316.4	3412.7	3445.9	3428.8
15°	2495.3	2515.6	2552.0	2674.1	2855.0	3099.1	3334.6	3521.9	3606.5	3596.8
17.5°	2490.0	2498.5	2521.0	2578.8	2718.0	2983.5	3315.3	3629.0	3790.6	3789.5
20°	2584.2	2587.4	2600.2	2612.0	2691.2	2895.7	3266.1	3717.8	3997.2	3997.2
22.5°	2714.8	2712.6	2725.5	2714.8	2753.3	2888.2	3235.0	3796.0	4227.4	4244.5
25°	2910.7	2900.0	2896.7	2872.1	2879.6	2957.8	3269.3	3884.8	4500.3	4535.7
27.5°	3171.9	3154.7	3143.0	3086.2	3067.0	3101.2	3374.2	3991.9	4804.4	4865.4
30°	3512.3	3481.2	3464.1	3365.6	3296.0	3301.4	3532.6	4134.2	5122.3	5220.8
32.5°	3976.9	3928.7	3882.7	3721.0	3593.6	3551.9	3737.1	4331.2	5467.0	5624.3
35°	4497.1	4458.6	4409.3	4159.9	3964.0	3867.7	4013.3	4606.3	5870.6	6120.0
37.5°	4998.1	4964.9	4988.5	4652.3	4399.7	4259.5	4375.1	4975.6	6368.3	6736.6
40°	5516.2	5490.5	5493.7	5172.6	4878.2	4720.9	4814.0	5439.2	6938.9	7469.9
42.5°	6079.3	6060.0	5995.8	5711.1	5380.3	5233.6	5319.3	5974.4	7551.2	8304.9
45°	6709.8	6698.0	6638.1	6311.6	5932.6	5767.8	5883.4	6565.3	8166.8	9090.6
47.5°	7254.7	7264.3	7256.8	6981.7	6588.9	6346.9	6485.0	7181.9	8739.5	9829.2
50°	7517.0	7567.3	7641.1	7555.5	7311.4	7065.2	7092.0	7777.1	9285.4	10521.8
52.5°	7380.0	7475.2	7676.5	7813.5	7907.7	7856.3	7784.6	8368.0	9799.3	11147.0
55°	6869.3	7003.1	7337.1	7667.9	8148.6	8522.2	8616.4	9023.2	10300.2	11697.2
57.5°	5939.1	6156.4	6456.1	7125.2	7934.5	8844.4	9586.2	9932.0	10831.2	12284.9
60°	4344.0	4635.2	5007.7	6003.3	7185.1	8672.0	10411.6	11327.9	11585.9	13046.0
62.5°	2780.1	2959.9	3302.5	4240.2	5598.7	7788.9	10664.2	13072.8	12865.1	14294.2
65°	1903.3	2018.9	2332.6	2859.3	3619.3	5797.8	9987.7	14380.9	14896.9	16272.5
67.5°	1383.1	1470.9	1738.5	2199.9	2358.3	3430.9	7750.3	14321.0	16872.0	18310.7
70°	1008.4	1070.5	1295.3	1738.5	1814.5	1908.7	4695.2	12173.6	16829.2	18852.4
72.5°	747.2	790.0	941.0	1348.8	1468.7	1288.9	2324.0	8847.6	14461.2	17051.8
75°	540.6	572.7	684.0	1032.0	1175.4	981.6	1159.3	5170.5	10087.2	11994.8
77.5°	413.2	437.8	510.6	755.8	941.0	736.5	719.4	2378.6	4782.9	4806.5
80°	331.9	347.9	387.5	532.0	721.5	551.3	468.9	960.2	1511.5	1279.2
82.5°	244.1	270.8	327.6	373.6	516.0	380.0	285.8	484.9	574.9	494.6
85°	139.2	157.4	198.0	267.6	329.7	232.3	163.8	215.2	267.6	219.5
87.5°	49.2	64.2	69.6	104.9	143.4	96.3	63.2	62.1	87.8	65.3
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°
2957.8	0°	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8
2989.9	2.5°	2979.2	2973.8	2952.4	2923.5	2893.5	2864.6	2855.0	2834.7	2820.7	2813.2
3059.5	5°	3039.1	3022.0	2971.7	2907.4	2840.0	2767.2	2715.8	2668.7	2634.5	2602.4
3154.7	7.5°	3124.8	3094.8	3008.1	2895.7	2775.8	2654.8	2564.9	2496.4	2450.3	2420.4
3266.1	10°	3224.3	3178.3	3045.5	2877.5	2692.3	2518.9	2412.9	2354.0	2325.1	2309.0
3393.4	12.5°	3338.9	3273.6	3084.1	2835.7	2564.9	2366.9	2294.1	2276.9	2278.0	2279.1
3554.0	15°	3480.2	3389.2	3115.1	2744.7	2399.0	2250.2	2237.3	2265.2	2294.1	2308.0
3736.0	17.5°	3639.7	3511.2	3120.5	2594.9	2236.3	2175.2	2215.9	2275.9	2319.7	2339.0
3939.4	20°	3810.9	3635.4	3081.9	2382.9	2102.4	2114.2	2187.0	2264.1	2312.3	2336.9
4171.7	22.5°	4006.8	3768.1	2989.9	2160.2	1993.3	2047.8	2133.5	2208.4	2258.7	2283.4
4444.7	25°	4230.6	3916.9	2845.4	1972.9	1899.0	1972.9	2058.6	2120.6	2161.3	2183.8
4749.8	27.5°	4478.9	4072.1	2652.7	1824.1	1816.6	1895.8	1966.5	2014.7	2036.1	2053.2
5074.1	30°	4728.3	4213.4	2419.3	1711.7	1744.9	1819.8	1870.1	1891.6	1898.0	1901.2
5435.9	32.5°	4998.1	4335.5	2174.2	1618.6	1676.4	1746.0	1775.9	1785.6	1755.6	1735.3
5874.8	35°	5324.6	4466.1	1934.4	1544.7	1608.9	1668.9	1678.5	1670.0	1634.6	1592.9
6425.1	37.5°	5728.2	4628.8	1742.8	1492.3	1545.8	1585.4	1573.6	1571.5	1574.7	1525.4
7086.6	40°	6222.8	4840.8	1602.5	1451.6	1494.4	1503.0	1469.8	1488.0	1504.0	1429.1
7812.4	42.5°	6771.9	5096.6	1513.7	1423.8	1451.6	1431.2	1379.9	1400.2	1398.1	1299.6
8541.4	45°	7331.8	5374.9	1482.6	1403.4	1412.0	1371.3	1314.6	1319.9	1275.0	1186.1
9240.5	47.5°	7888.4	5673.6	1501.9	1386.3	1362.7	1316.7	1272.8	1249.3	1182.9	1116.5
9910.6	50°	8434.4	5987.2	1572.5	1352.0	1295.3	1268.5	1236.4	1194.7	1124.0	1067.3
10544.3	52.5°	8940.7	6303.0	1651.8	1295.3	1210.7	1226.8	1206.4	1158.3	1088.7	1030.9
11143.8	55°	9420.3	6618.8	1682.8	1217.1	1131.5	1190.4	1178.6	1089.8	1006.3	959.2
11771.1	57.5°	9942.7	6998.9	1648.6	1117.6	1067.3	1148.6	1103.7	1005.2	957.0	921.7
12587.9	60°	10666.4	7595.1	1574.7	994.5	1006.3	1086.5	1009.5	968.8	916.3	876.7
13812.5	62.5°	11868.5	8707.4	1455.9	872.4	934.5	994.5	964.5	923.8	870.3	831.8
15906.4	65°	13645.5	10253.1	1232.1	777.2	854.3	904.6	916.3	875.7	820.0	779.3
17741.2	67.5°	15144.2	11223.0	932.4	698.0	771.8	831.8	865.0	825.3	766.5	726.9
18170.5	70°	15061.8	10518.6	711.9	619.8	699.0	760.0	802.9	771.8	708.7	671.2
16504.8	72.5°	13377.9	8799.4	575.9	540.6	625.2	685.1	736.5	712.9	648.7	612.3
12091.2	75°	9828.2	6246.3	460.3	460.3	533.1	607.0	663.7	648.7	589.8	564.1
5076.3	77.5°	4142.8	2620.6	360.8	382.2	443.2	521.3	592.0	597.3	545.9	578.1
1342.4	80°	1101.5	722.6	275.1	300.8	347.9	430.3	514.9	512.8	457.1	427.1
498.8	82.5°	419.6	284.8	195.9	212.0	251.6	329.7	407.9	420.7	365.0	315.8
195.9	85°	161.6	122.0	121.0	127.4	146.7	218.4	308.3	319.0	275.1	233.4
54.6	87.5°	41.7	36.4	45.0	42.8	67.4	116.7	176.6	183.1	168.1	97.4
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>
2957.8
2821.8
2615.2
2426.8
2313.3
2281.2
2306.9
2343.3
2343.3
2289.8
2190.2
2059.6
1908.7
1741.7
1595.0
1528.7
1431.2
1298.5
1189.3
1116.5
1063.0
1032.0
954.9
918.5
874.6
831.8
781.5
727.9
674.4
612.3
556.7
524.5
397.2
315.8
240.9
139.2
0.0

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