

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: P939985

Luminaire Tested: **GALN-SB2D-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939985  
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-SB2D-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

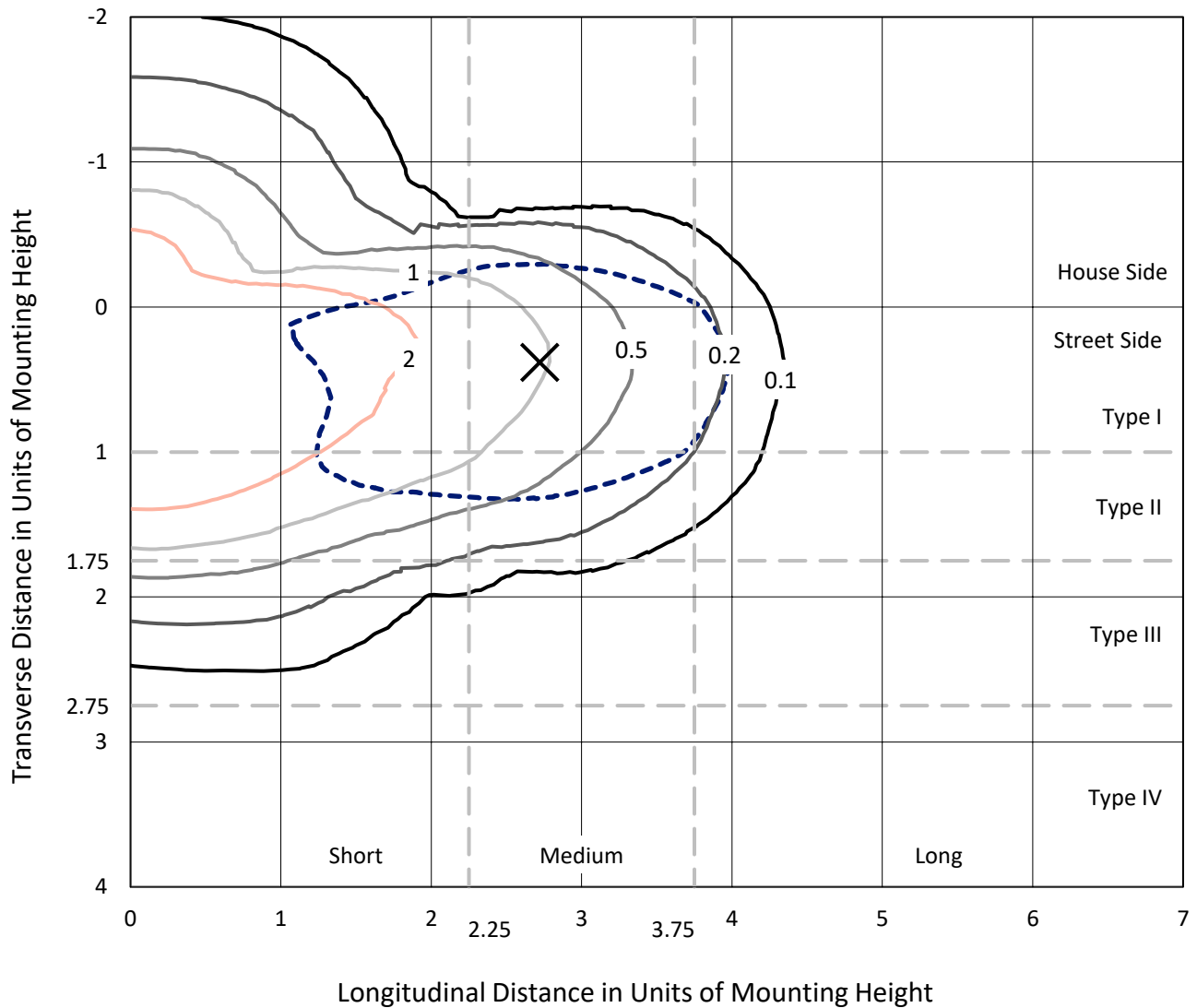
Lumens per Lamp: N/A  
Luminaire Lumens: 18118 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

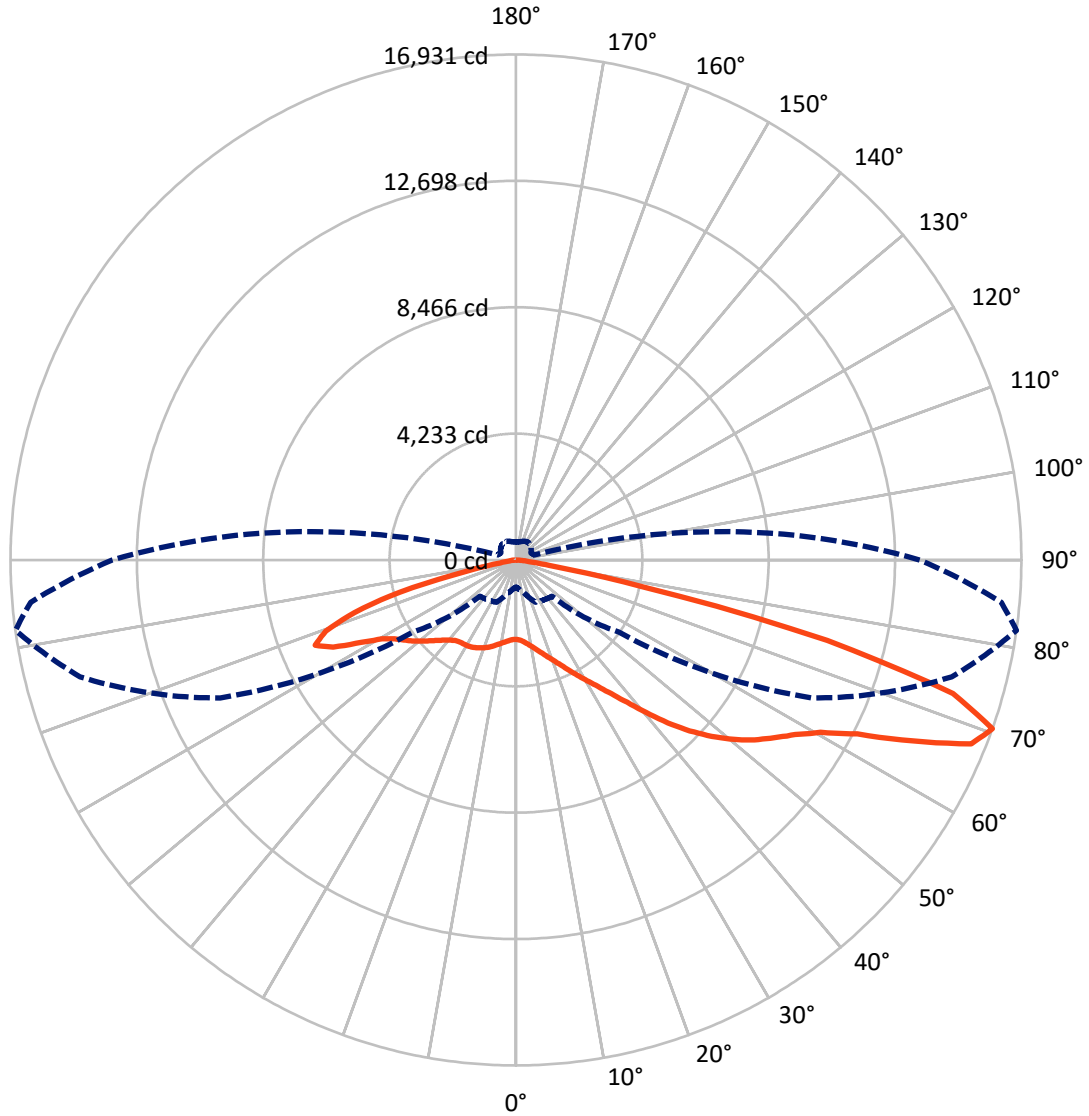
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	4466.5	0.0	4466.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	13651.5	0.0	13651.5
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	18118.0	0.0	18118.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.8	1.4
10°-20°	720.6	4.0
20°-30°	1205.4	6.7
30°-40°	1883.2	10.4
40°-50°	2999.3	16.6
50°-60°	4173.8	23.0
60°-70°	4366.0	24.1
70°-80°	2281.9	12.6
80°-90°	236.9	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°	18118.0	100.0
0°-180°	18118.0	100.0

**Coefficient of Utilization**



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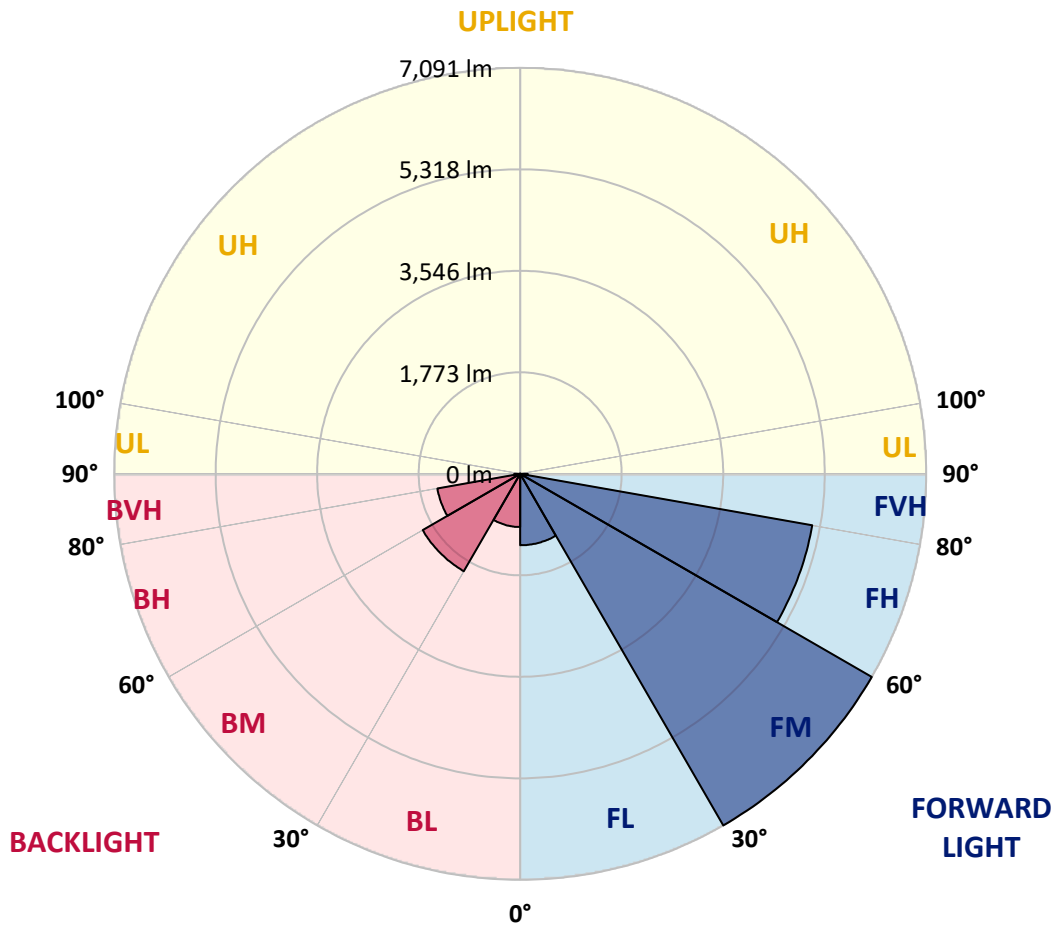
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.6	6.9			
FM (30°-60°)	7091.2	39.1			
FH (60°-80°)	5180.0	28.6			G3/7500
FVH (80°-90°)	132.6	0.7			G2/225
BL (0°-30°)	929.2	5.1	B2/1000		
BM (30°-60°)	1965.1	10.8	B2/2500		
BH (60°-80°)	1467.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	104.3	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°	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3
2.5°	2719.8	2735.2	2730.4	2725.5	2725.5	2718.8	2717.9	2708.2	2700.5	2688.1
5°	2754.4	2770.7	2768.8	2772.7	2785.2	2788.0	2790.9	2785.2	2769.8	2754.4
7.5°	2723.6	2741.9	2747.7	2770.7	2809.2	2843.8	2869.8	2880.3	2865.9	2843.8
10°	2619.8	2640.0	2660.2	2715.0	2783.2	2864.9	2934.2	2975.5	2972.6	2951.5
12.5°	2409.2	2430.4	2473.7	2580.4	2705.4	2849.6	2978.4	3064.9	3094.7	3079.3
15°	2241.0	2259.3	2292.0	2401.6	2564.0	2783.2	2994.7	3163.0	3238.9	3230.3
17.5°	2236.2	2243.9	2264.1	2316.0	2441.0	2679.4	2977.4	3259.1	3404.3	3403.3
20°	2320.8	2323.7	2335.2	2345.8	2416.9	2600.6	2933.2	3338.9	3589.8	3589.8
22.5°	2438.1	2436.2	2447.7	2438.1	2472.7	2593.8	2905.3	3409.1	3796.5	3811.9
25°	2614.0	2604.4	2601.5	2579.4	2586.1	2656.3	2936.1	3488.9	4041.7	4073.4
27.5°	2848.6	2833.2	2822.6	2771.7	2754.4	2785.2	3030.3	3585.0	4314.7	4369.5
30°	3154.3	3126.4	3111.1	3022.6	2960.1	2964.9	3172.6	3712.9	4600.3	4688.7
32.5°	3571.6	3528.3	3487.0	3341.8	3227.4	3189.9	3356.2	3889.8	4909.8	5051.2
35°	4038.8	4004.2	3960.0	3736.0	3560.0	3473.5	3604.3	4136.9	5272.3	5496.3
37.5°	4488.7	4458.9	4480.1	4178.2	3951.3	3825.4	3929.2	4468.5	5719.3	6050.0
40°	4954.1	4931.0	4933.9	4645.4	4381.1	4239.7	4323.4	4884.8	6231.7	6708.6
42.5°	5459.7	5442.4	5384.8	5129.0	4832.0	4700.2	4777.2	5365.5	6781.7	7458.5
45°	6026.0	6015.4	5961.6	5668.4	5328.0	5180.0	5283.8	5896.2	7334.5	8164.1
47.5°	6515.4	6524.0	6517.3	6270.2	5917.4	5700.1	5824.1	6450.0	7848.8	8827.5
50°	6750.9	6796.1	6862.4	6785.5	6566.3	6345.2	6369.2	6984.5	8339.1	9449.5
52.5°	6627.8	6713.4	6894.1	7017.2	7101.8	7055.7	6991.2	7515.2	8800.6	10011.0
55°	6169.3	6289.4	6589.4	6886.4	7318.1	7653.6	7738.2	8103.6	9250.5	10505.1
57.5°	5333.8	5529.0	5798.2	6399.0	7125.8	7943.0	8609.3	8919.8	9727.4	11032.9
60°	3901.3	4162.8	4497.4	5391.5	6452.9	7788.2	9350.5	10173.4	10405.1	11716.5
62.5°	2496.7	2658.2	2965.9	3808.1	5028.1	6995.1	9577.4	11740.5	11554.0	12837.5
65°	1709.4	1813.2	2094.9	2567.9	3250.5	5206.9	8969.8	12915.3	13378.7	14614.1
67.5°	1242.1	1321.0	1561.3	1975.7	2117.9	3081.3	6960.5	12861.5	15152.5	16444.6
70°	905.6	961.4	1163.3	1561.3	1629.6	1714.2	4216.7	10932.9	15114.0	16931.1
72.5°	671.1	709.5	845.1	1211.4	1319.0	1157.5	2087.2	7945.9	12987.4	15314.0
75°	485.5	514.3	614.3	926.8	1055.6	881.6	1041.2	4643.5	9059.2	10772.4
77.5°	371.1	393.2	458.6	678.7	845.1	661.4	646.1	2136.2	4295.5	4316.6
80°	298.0	312.5	348.0	477.8	648.0	495.1	421.1	862.4	1357.5	1148.9
82.5°	219.2	243.2	294.2	335.5	463.4	341.3	256.7	435.5	516.3	444.2
85°	125.0	141.3	177.9	240.3	296.1	208.6	147.1	193.2	240.3	197.1
87.5°	44.2	57.7	62.5	94.2	128.8	86.5	56.7	55.8	78.8	58.6
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°
2656.3	0°	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3	2656.3
2685.2	2.5°	2675.6	2670.7	2651.5	2625.6	2598.6	2572.7	2564.0	2545.8	2533.3	2526.5
2747.7	5°	2729.4	2714.0	2668.8	2611.1	2550.6	2485.2	2439.1	2396.7	2366.0	2337.1
2833.2	7.5°	2806.3	2779.4	2701.5	2600.6	2492.9	2384.3	2303.5	2242.0	2200.6	2173.7
2933.2	10°	2895.7	2854.4	2735.2	2584.2	2417.9	2262.2	2167.0	2114.1	2088.1	2073.7
3047.6	12.5°	2998.6	2939.9	2769.8	2546.7	2303.5	2125.6	2060.3	2044.9	2045.8	2046.8
3191.8	15°	3125.5	3043.8	2797.6	2465.0	2154.5	2020.8	2009.3	2034.3	2060.3	2072.8
3355.3	17.5°	3268.7	3153.4	2802.5	2330.4	2008.3	1953.5	1990.1	2043.9	2083.3	2100.6
3537.9	20°	3422.6	3264.9	2767.8	2140.1	1888.2	1898.7	1964.1	2033.3	2076.6	2098.7
3746.5	22.5°	3598.5	3384.1	2685.2	1940.1	1790.1	1839.1	1916.1	1983.4	2028.5	2050.6
3991.7	25°	3799.4	3517.7	2555.4	1771.8	1705.5	1771.8	1848.8	1904.5	1941.0	1961.2
4265.7	27.5°	4022.5	3657.1	2382.3	1638.2	1631.5	1702.6	1766.1	1809.3	1828.6	1843.9
4557.0	30°	4246.5	3784.0	2172.7	1537.3	1567.1	1634.4	1679.6	1698.8	1704.5	1707.4
4881.9	32.5°	4488.7	3893.6	1952.6	1453.6	1505.5	1568.0	1594.9	1603.6	1576.7	1558.4
5276.1	35°	4782.0	4010.9	1737.2	1387.3	1445.0	1498.8	1507.5	1499.8	1468.0	1430.6
5770.3	37.5°	5144.4	4157.1	1565.1	1340.2	1388.2	1423.8	1413.2	1411.3	1414.2	1370.0
6364.4	40°	5588.6	4347.4	1439.2	1303.6	1342.1	1349.8	1320.0	1336.3	1350.8	1283.5
7016.2	42.5°	6081.8	4577.2	1359.4	1278.7	1303.6	1285.4	1239.2	1257.5	1255.6	1167.1
7670.9	45°	6584.6	4827.1	1331.5	1260.4	1268.1	1231.5	1180.6	1185.4	1145.0	1065.2
8298.7	47.5°	7084.5	5095.4	1348.8	1245.0	1223.9	1182.5	1143.1	1121.9	1062.3	1002.7
8900.6	50°	7574.8	5377.1	1412.3	1214.2	1163.3	1139.2	1110.4	1072.9	1009.5	958.5
9469.7	52.5°	8029.5	5660.7	1483.4	1163.3	1087.3	1101.8	1083.5	1040.2	977.7	925.8
10008.1	55°	8460.2	5944.3	1511.3	1093.1	1016.2	1069.1	1058.5	978.7	903.7	861.4
10571.5	57.5°	8929.4	6285.6	1480.5	1003.7	958.5	1031.6	991.2	902.7	859.5	827.8
11305.0	60°	9579.3	6821.1	1414.2	893.1	903.7	975.8	906.6	870.1	823.0	787.4
12404.8	62.5°	10659.0	7820.0	1307.5	783.5	839.3	893.1	866.2	829.7	781.6	747.0
14285.3	65°	12254.9	9208.2	1106.6	698.0	767.2	812.4	823.0	786.4	736.4	699.9
15933.1	67.5°	13600.8	10079.2	837.4	626.8	693.2	747.0	776.8	741.2	688.4	652.8
16318.7	70°	13526.8	9446.6	639.3	556.6	627.8	682.6	721.0	693.2	636.4	602.8
14822.7	72.5°	12014.5	7902.6	517.2	485.5	561.5	615.3	661.4	640.3	582.6	549.9
10858.9	75°	8826.5	5609.7	413.4	413.4	478.8	545.1	596.1	582.6	529.7	506.7
4558.9	77.5°	3720.6	2353.5	324.0	343.2	398.0	468.2	531.6	536.5	490.3	519.2
1205.6	80°	989.3	648.9	247.1	270.2	312.5	386.5	462.4	460.5	410.5	383.6
448.0	82.5°	376.9	255.7	175.9	190.4	225.9	296.1	366.3	377.8	327.8	283.6
175.9	85°	145.2	109.6	108.6	114.4	131.7	196.1	276.9	286.5	247.1	209.6
49.0	87.5°	37.5	32.7	40.4	38.5	60.6	104.8	158.6	164.4	150.9	87.5
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>
2656.3
2534.2
2348.7
2179.5
2077.6
2048.7
2071.8
2104.5
2104.5
2056.4
1967.0
1849.7
1714.2
1564.2
1432.5
1372.9
1285.4
1166.2
1068.1
1002.7
954.7
926.8
857.6
824.9
785.5
747.0
701.8
653.7
605.7
549.9
499.9
471.1
356.7
283.6
216.3
125.0
0.0

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