

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: P939475

Luminaire Tested: **GALN-SB2A-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939475  
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-SB2A-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 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: 7987 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

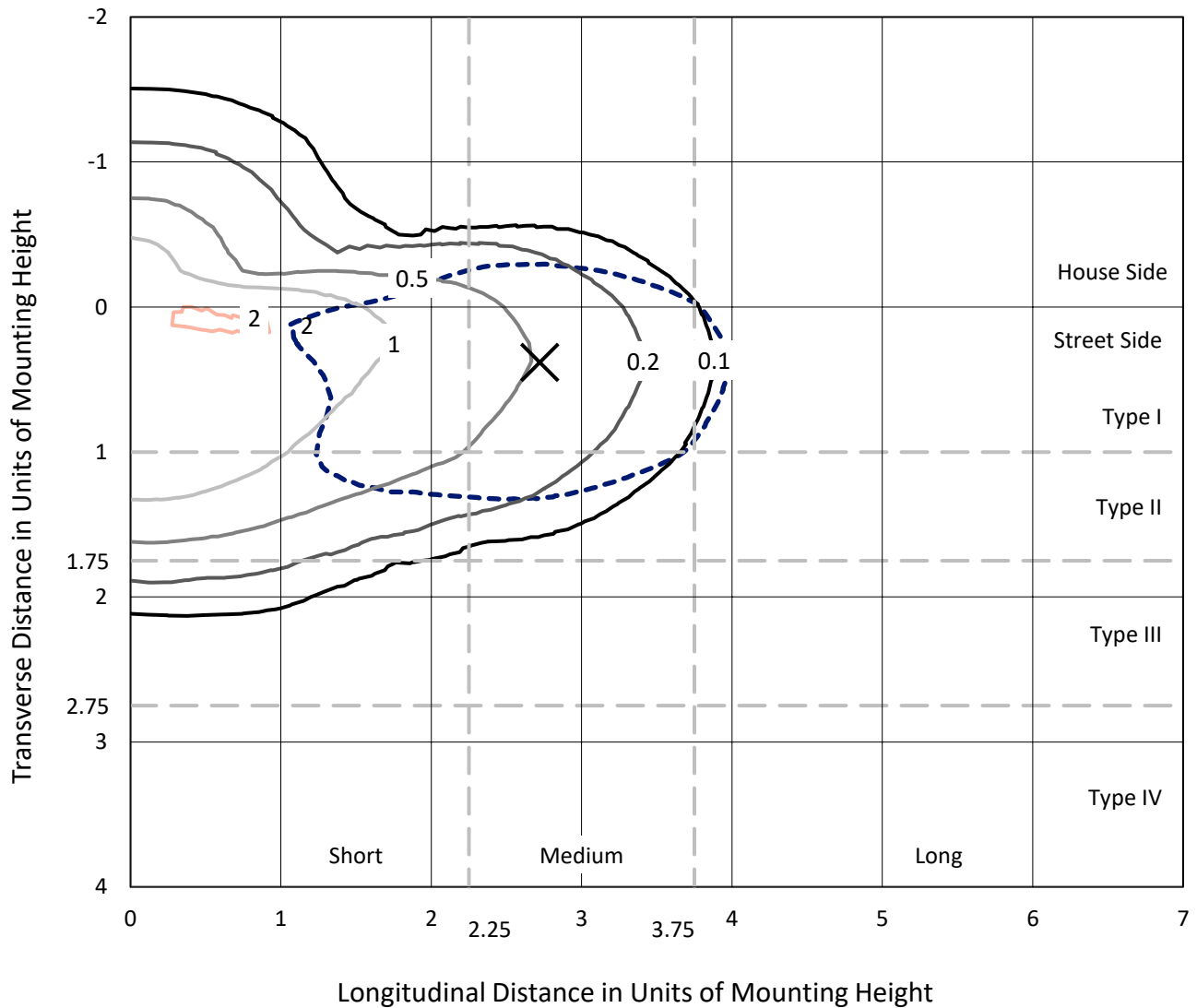
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

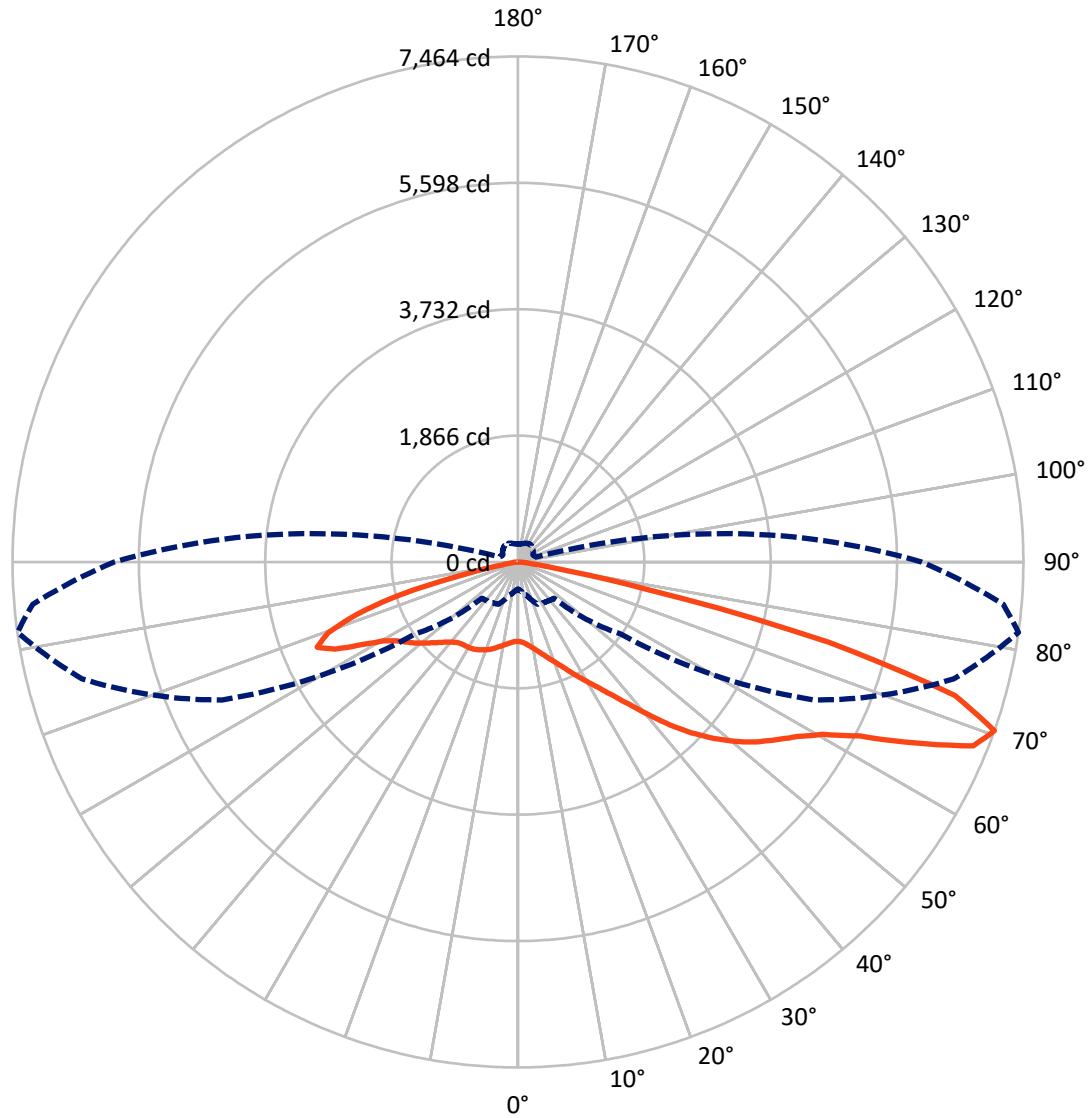
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1969.0	0.0	1969.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	6018.0	0.0	6018.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	7987.0	0.0	7987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	1.4
10°-20°	317.7	4.0
20°-30°	531.4	6.7
30°-40°	830.2	10.4
40°-50°	1322.2	16.6
50°-60°	1840.0	23.0
60°-70°	1924.7	24.1
70°-80°	1005.9	12.6
80°-90°	104.5	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°	7987.0	100.0
0°-180°	7987.0	100.0

**Coefficient of Utilization**



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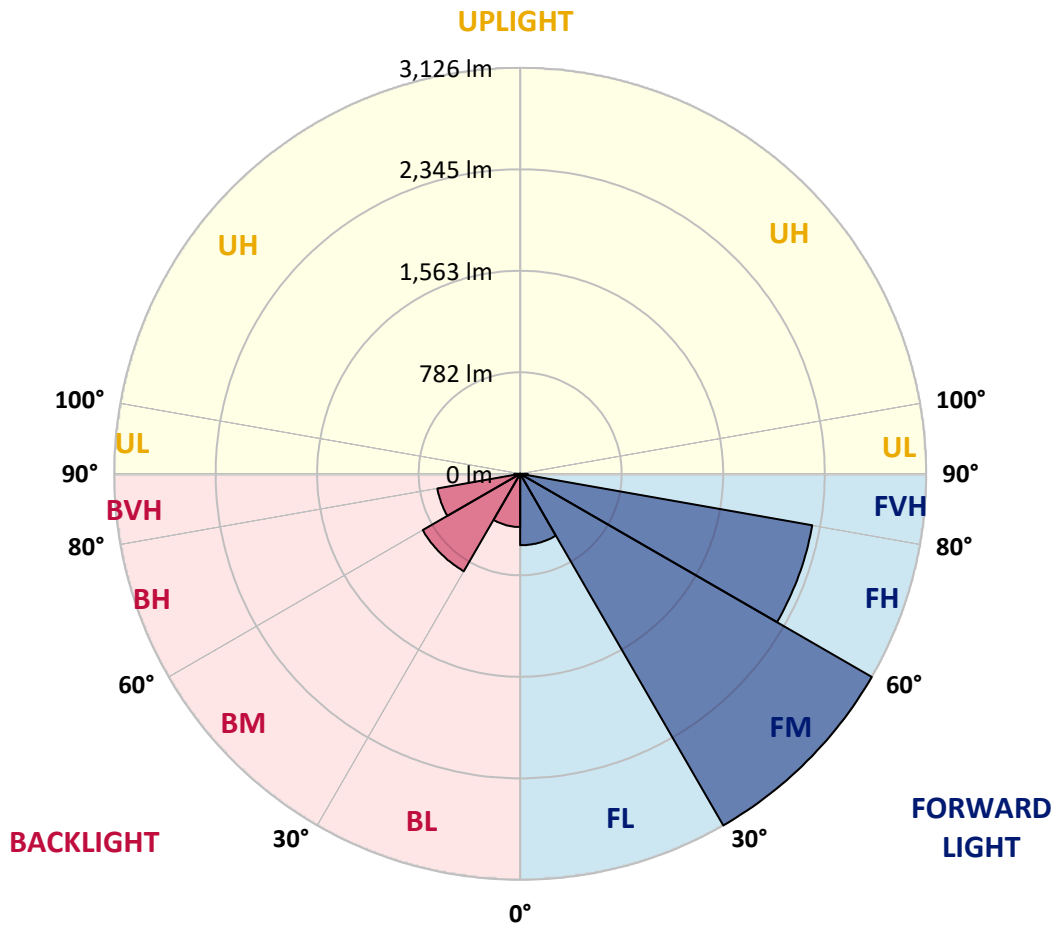
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.0	6.9			
FM (30°-60°)	3126.0	39.1			
FH (60°-80°)	2283.5	28.6			G2/5000
FVH (80°-90°)	58.5	0.7			G1/100
BL (0°-30°)	409.6	5.1	B1/500		
BM (30°-60°)	866.3	10.8	B1/1000		
BH (60°-80°)	647.1	8.1	B2/1000		G2/1000
BVH (80°-90°)	46.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0
2.5°	1199.0	1205.7	1203.6	1201.5	1201.5	1198.5	1198.1	1193.9	1190.5	1185.0
5°	1214.2	1221.4	1220.6	1222.3	1227.8	1229.1	1230.3	1227.8	1221.0	1214.2
7.5°	1200.7	1208.7	1211.3	1221.4	1238.4	1253.6	1265.1	1269.7	1263.4	1253.6
10°	1154.9	1163.8	1172.7	1196.8	1226.9	1263.0	1293.5	1311.7	1310.4	1301.1
12.5°	1062.1	1071.4	1090.5	1137.5	1192.6	1256.2	1313.0	1351.1	1364.3	1357.5
15°	987.9	996.0	1010.4	1058.7	1130.3	1226.9	1320.2	1394.3	1427.8	1424.0
17.5°	985.8	989.2	998.1	1021.0	1076.1	1181.2	1312.5	1436.7	1500.7	1500.3
20°	1023.1	1024.4	1029.4	1034.1	1065.5	1146.4	1293.1	1471.9	1582.5	1582.5
22.5°	1074.8	1073.9	1079.0	1074.8	1090.0	1143.4	1280.8	1502.8	1673.6	1680.4
25°	1152.3	1148.1	1146.8	1137.1	1140.1	1171.0	1294.3	1538.0	1781.7	1795.7
27.5°	1255.8	1249.0	1244.3	1221.9	1214.2	1227.8	1335.9	1580.4	1902.1	1926.2
30°	1390.5	1378.2	1371.5	1332.5	1304.9	1307.0	1398.6	1636.8	2027.9	2066.9
32.5°	1574.5	1555.4	1537.2	1473.2	1422.7	1406.2	1479.5	1714.7	2164.4	2226.7
35°	1780.4	1765.2	1745.7	1646.9	1569.4	1531.2	1588.9	1823.7	2324.2	2422.9
37.5°	1978.8	1965.6	1975.0	1841.9	1741.9	1686.4	1732.1	1969.9	2521.3	2667.1
40°	2183.9	2173.7	2175.0	2047.9	1931.3	1869.0	1905.9	2153.4	2747.2	2957.4
42.5°	2406.8	2399.2	2373.8	2261.0	2130.1	2072.0	2105.9	2365.3	2989.6	3287.9
45°	2656.5	2651.8	2628.1	2498.8	2348.8	2283.5	2329.3	2599.2	3233.3	3599.0
47.5°	2872.2	2876.0	2873.0	2764.1	2608.6	2512.8	2567.5	2843.4	3460.0	3891.4
50°	2976.0	2995.9	3025.2	2991.3	2894.6	2797.2	2807.8	3079.0	3676.2	4165.7
52.5°	2921.8	2959.5	3039.2	3093.4	3130.7	3110.4	3082.0	3312.9	3879.6	4413.2
55°	2719.6	2772.6	2904.8	3035.8	3226.1	3374.0	3411.3	3572.3	4077.9	4631.0
57.5°	2351.3	2437.3	2556.0	2820.9	3141.3	3501.5	3795.2	3932.1	4288.1	4863.7
60°	1719.8	1835.1	1982.6	2376.7	2844.6	3433.3	4122.0	4484.8	4586.9	5165.0
62.5°	1100.6	1171.8	1307.5	1678.7	2216.5	3083.7	4222.0	5175.6	5093.4	5659.2
65°	753.5	799.3	923.5	1132.0	1432.9	2295.4	3954.2	5693.5	5897.8	6442.4
67.5°	547.6	582.3	688.3	870.9	933.7	1358.3	3068.4	5669.8	6679.7	7249.3
70°	399.2	423.8	512.8	688.3	718.4	755.7	1858.8	4819.6	6662.8	7463.8
72.5°	295.8	312.8	372.5	534.0	581.5	510.3	920.1	3502.8	5725.3	6750.9
75°	214.0	226.7	270.8	408.6	465.3	388.6	459.0	2047.0	3993.6	4748.8
77.5°	163.6	173.3	202.2	299.2	372.5	291.6	284.8	941.7	1893.6	1902.9
80°	131.4	137.7	153.4	210.6	285.6	218.3	185.6	380.2	598.4	506.5
82.5°	96.6	107.2	129.7	147.9	204.3	150.5	113.2	192.0	227.6	195.8
85°	55.1	62.3	78.4	106.0	130.5	92.0	64.8	85.2	106.0	86.9
87.5°	19.5	25.4	27.5	41.5	56.8	38.1	25.0	24.6	34.8	25.9
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°
1171.0	0°	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0	1171.0
1183.7	2.5°	1179.5	1177.4	1168.9	1157.4	1145.6	1134.1	1130.3	1122.3	1116.7	1113.8
1211.3	5°	1203.2	1196.4	1176.5	1151.1	1124.4	1095.6	1075.2	1056.6	1043.0	1030.3
1249.0	7.5°	1237.1	1225.2	1190.9	1146.4	1098.9	1051.1	1015.5	988.3	970.1	958.2
1293.1	10°	1276.5	1258.3	1205.7	1139.2	1065.9	997.2	955.3	932.0	920.5	914.2
1343.5	12.5°	1321.9	1296.0	1221.0	1122.7	1015.5	937.0	908.2	901.4	901.9	902.3
1407.1	15°	1377.8	1341.8	1233.3	1086.7	949.8	890.9	885.8	896.8	908.2	913.7
1479.1	17.5°	1441.0	1390.1	1235.4	1027.3	885.3	861.2	877.3	901.0	918.4	926.0
1559.6	20°	1508.8	1439.3	1220.2	943.4	832.4	837.0	865.8	896.4	915.4	925.2
1651.6	22.5°	1586.3	1491.8	1183.7	855.3	789.1	810.8	844.7	874.3	894.2	904.0
1759.7	25°	1674.9	1550.7	1126.5	781.1	751.8	781.1	815.0	839.6	855.7	864.6
1880.5	27.5°	1773.2	1612.2	1050.2	722.2	719.2	750.6	778.5	797.6	806.1	812.9
2008.9	30°	1872.0	1668.1	957.8	677.7	690.8	720.5	740.4	748.9	751.4	752.7
2152.1	32.5°	1978.8	1716.4	860.8	640.8	663.7	691.2	703.1	706.9	695.1	687.0
2325.9	35°	2108.0	1768.1	765.8	611.6	637.0	660.7	664.5	661.1	647.2	630.6
2543.7	37.5°	2267.8	1832.6	690.0	590.8	612.0	627.7	623.0	622.2	623.4	603.9
2805.6	40°	2463.6	1916.5	634.4	574.7	591.6	595.0	581.9	589.1	595.5	565.8
3093.0	42.5°	2681.0	2017.8	599.3	563.7	574.7	566.6	546.3	554.3	553.5	514.5
3381.6	45°	2902.7	2128.0	587.0	555.6	559.0	542.9	520.4	522.6	504.8	469.6
3658.3	47.5°	3123.1	2246.2	594.6	548.8	539.5	521.3	503.9	494.6	468.3	442.0
3923.7	50°	3339.2	2370.4	622.6	535.3	512.8	502.2	489.5	473.0	445.0	422.5
4174.6	52.5°	3539.7	2495.4	653.9	512.8	479.3	485.7	477.6	458.6	431.0	408.1
4411.9	55°	3729.6	2620.4	666.2	481.9	448.0	471.3	466.6	431.4	398.4	379.7
4660.2	57.5°	3936.4	2770.9	652.7	442.5	422.5	454.8	437.0	398.0	378.9	364.9
4983.6	60°	4222.9	3007.0	623.4	393.7	398.4	430.2	399.7	383.6	362.8	347.1
5468.5	62.5°	4698.8	3447.3	576.4	345.4	370.0	393.7	381.9	365.8	344.6	329.3
6297.4	65°	5402.3	4059.3	487.8	307.7	338.2	358.1	362.8	346.7	324.6	308.5
7023.8	67.5°	5995.7	4443.3	369.1	276.3	305.6	329.3	342.4	326.8	303.4	287.8
7193.8	70°	5963.0	4164.4	281.8	245.4	276.7	300.9	317.9	305.6	280.6	265.7
6534.3	72.5°	5296.4	3483.7	228.0	214.0	247.5	271.2	291.6	282.3	256.8	242.4
4787.0	75°	3891.0	2472.9	182.2	182.2	211.1	240.3	262.8	256.8	233.5	223.3
2009.7	77.5°	1640.2	1037.5	142.8	151.3	175.5	206.4	234.4	236.5	216.1	228.9
531.5	80°	436.1	286.1	108.9	119.1	137.7	170.4	203.9	203.0	181.0	169.1
197.5	82.5°	166.1	112.7	77.6	83.9	99.6	130.5	161.5	166.6	144.5	125.0
77.6	85°	64.0	48.3	47.9	50.4	58.1	86.5	122.1	126.3	108.9	92.4
21.6	87.5°	16.5	14.4	17.8	17.0	26.7	46.2	69.9	72.5	66.5	38.6
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>
1171.0
1117.2
1035.4
960.8
915.9
903.1
913.3
927.7
927.7
906.5
867.1
815.4
755.7
689.5
631.5
605.2
566.6
514.1
470.9
442.0
420.8
408.6
378.0
363.6
346.3
329.3
309.4
288.2
267.0
242.4
220.4
207.7
157.2
125.0
95.4
55.1
0.0

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