

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: P942265

Luminaire Tested: **GALN-SB6A-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942265
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-SB6A-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19531 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

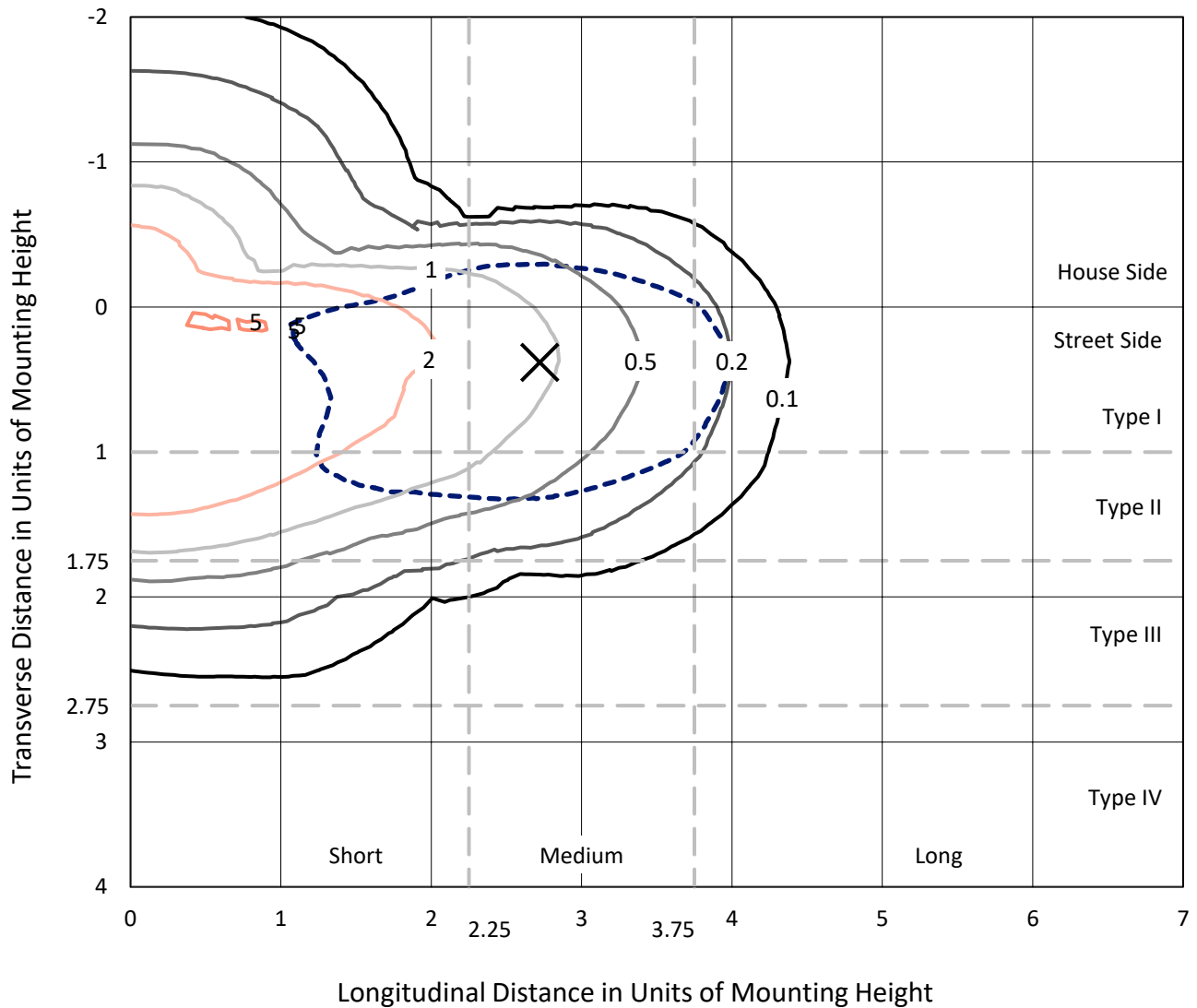
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

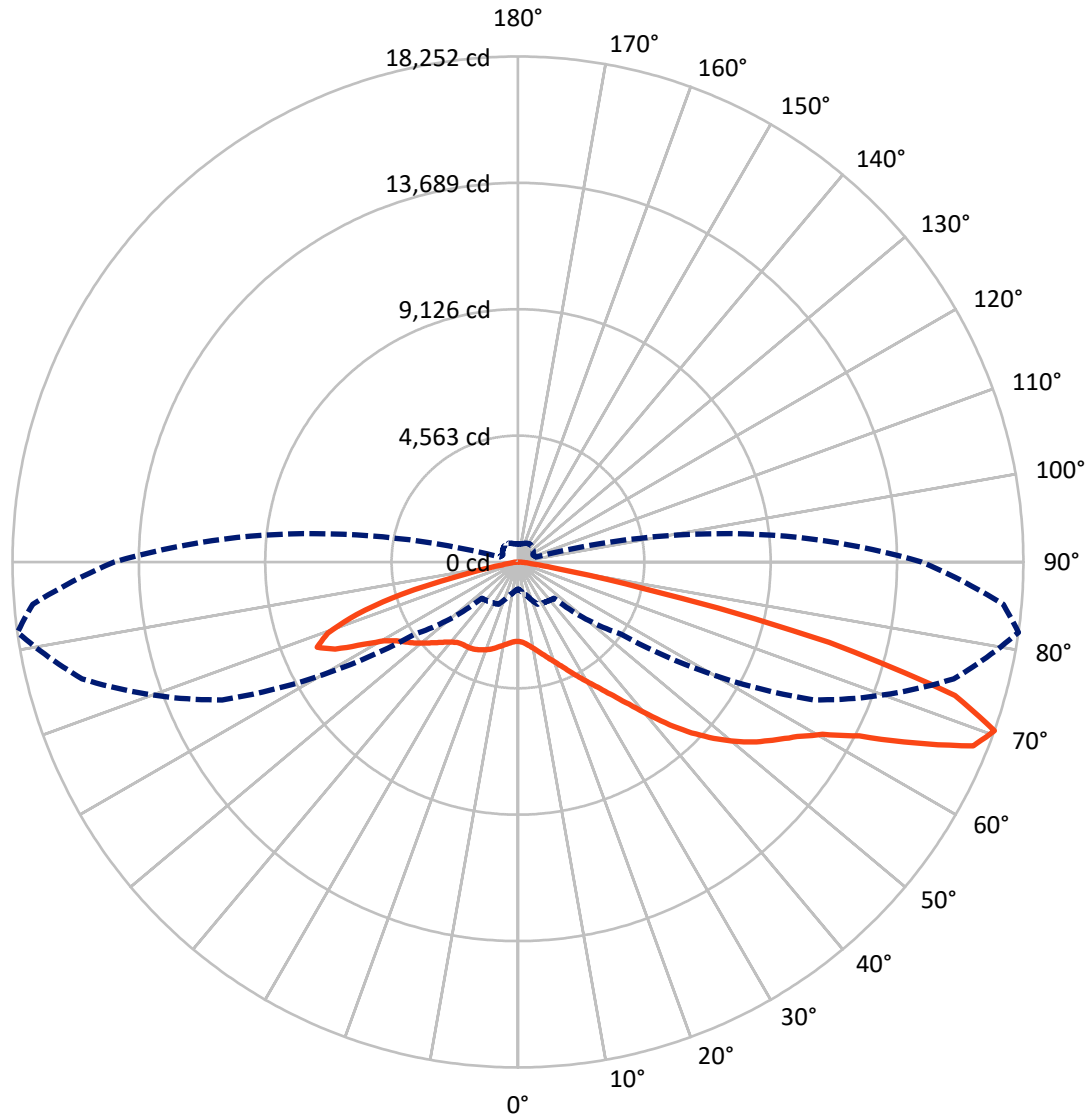
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	4814.9	0.0	4814.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14716.1	0.0	14716.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	19531.0	0.0	19531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.4
10°-20°	776.8	4.0
20°-30°	1299.5	6.7
30°-40°	2030.1	10.4
40°-50°	3233.2	16.6
50°-60°	4499.3	23.0
60°-70°	4706.5	24.1
70°-80°	2459.9	12.6
80°-90°	255.4	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°	19531.0	100.0
0°-180°	19531.0	100.0

Coefficient of Utilization



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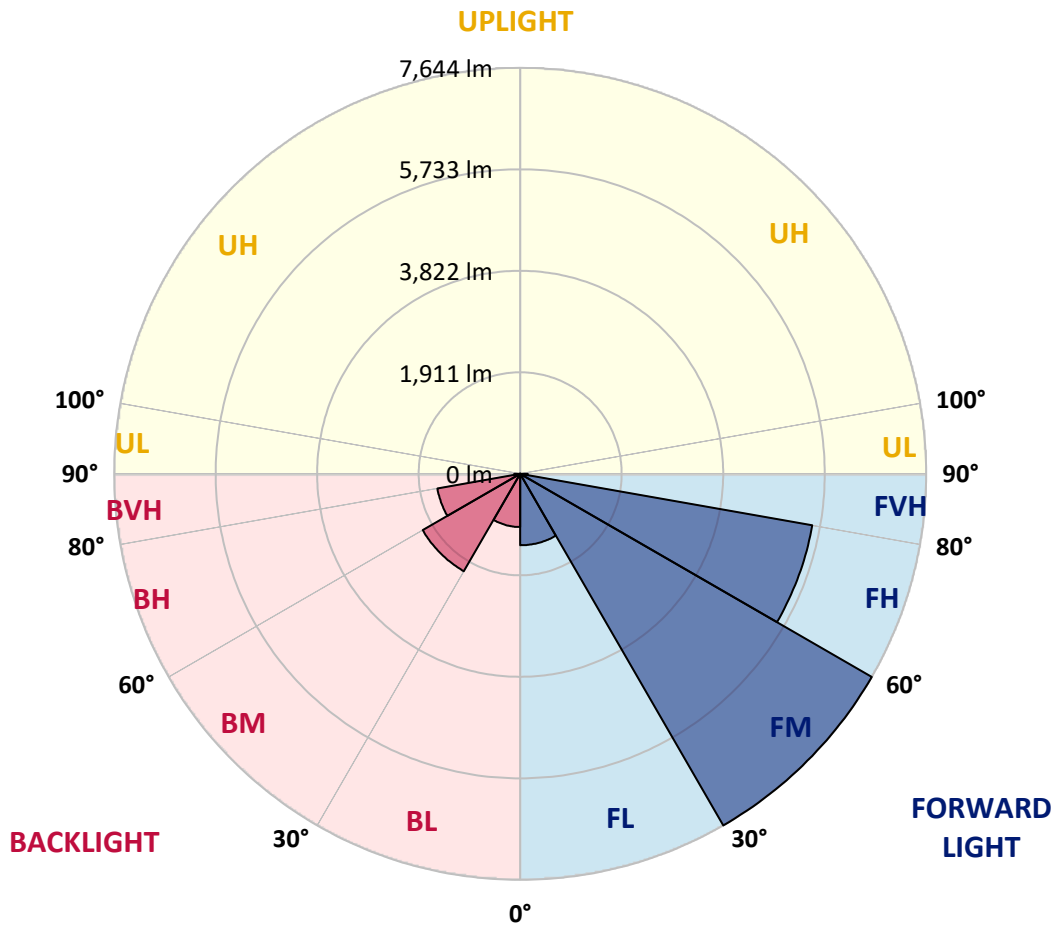
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.9	6.9			
FM (30°-60°)	7644.2	39.1			
FH (60°-80°)	5584.0	28.6			G3/7500
FVH (80°-90°)	143.0	0.7			G2/225
BL (0°-30°)	1001.7	5.1	B3/2500		
BM (30°-60°)	2118.4	10.8	B2/2500		
BH (60°-80°)	1582.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	112.4	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°	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5
2.5°	2931.9	2948.5	2943.3	2938.1	2938.1	2930.9	2929.8	2919.5	2911.2	2897.7
5°	2969.2	2986.8	2984.7	2988.9	3002.4	3005.5	3008.6	3002.4	2985.8	2969.2
7.5°	2936.0	2955.7	2961.9	2986.8	3028.3	3065.6	3093.6	3105.0	3089.4	3065.6
10°	2824.1	2845.9	2867.6	2926.7	3000.3	3088.4	3163.0	3207.6	3204.5	3181.7
12.5°	2597.1	2619.9	2666.6	2781.6	2916.3	3071.8	3210.7	3303.9	3336.1	3319.5
15°	2415.8	2435.5	2470.7	2588.9	2764.0	3000.3	3228.3	3409.7	3491.5	3482.2
17.5°	2410.6	2418.9	2440.7	2496.6	2631.3	2888.4	3209.6	3513.3	3669.8	3668.7
20°	2501.8	2504.9	2517.3	2528.7	2605.4	2803.4	3162.0	3599.3	3869.8	3869.8
22.5°	2628.2	2626.2	2638.6	2628.2	2665.5	2796.1	3131.9	3675.0	4092.6	4109.2
25°	2817.9	2807.5	2804.4	2780.6	2787.8	2863.5	3165.1	3761.0	4356.9	4391.1
27.5°	3070.8	3054.2	3042.8	2987.9	2969.2	3002.4	3266.6	3864.6	4651.2	4710.3
30°	3400.3	3370.3	3353.7	3258.3	3191.0	3196.2	3420.0	4002.5	4959.0	5054.4
32.5°	3850.1	3803.5	3758.9	3602.4	3479.1	3438.7	3618.0	4193.2	5292.7	5445.1
35°	4353.8	4316.5	4268.8	4027.3	3837.7	3744.4	3885.3	4459.5	5683.5	5924.9
37.5°	4838.8	4806.7	4829.5	4504.1	4259.5	4123.7	4235.6	4817.0	6165.4	6521.9
40°	5340.4	5315.5	5318.6	5007.7	4722.7	4570.4	4660.6	5265.8	6717.7	7231.8
42.5°	5885.5	5866.9	5804.7	5529.0	5208.8	5066.8	5149.7	5784.0	7310.6	8040.2
45°	6496.0	6484.6	6426.5	6110.4	5743.6	5584.0	5695.9	6356.1	7906.5	8800.8
47.5°	7023.5	7032.8	7025.5	6759.2	6378.9	6144.6	6278.3	6953.0	8460.9	9515.9
50°	7277.4	7326.1	7397.6	7314.7	7078.4	6840.0	6865.9	7529.2	8989.5	10186.5
52.5°	7144.7	7237.0	7431.8	7564.5	7655.7	7605.9	7536.5	8101.3	9486.9	10791.7
55°	6650.4	6779.9	7103.3	7423.5	7888.8	8250.5	8341.7	8735.6	9971.9	11324.4
57.5°	5749.8	5960.2	6250.3	6898.1	7681.6	8562.5	9280.7	9615.4	10486.0	11893.4
60°	4205.6	4487.5	4848.1	5812.0	6956.1	8395.6	10079.7	10966.9	11216.6	12630.2
62.5°	2691.5	2865.6	3197.2	4105.1	5420.2	7540.6	10324.3	12656.1	12455.1	13838.6
65°	1842.7	1954.6	2258.2	2768.1	3504.0	5613.0	9669.3	13922.6	14422.1	15753.9
67.5°	1339.0	1424.0	1683.1	2129.7	2283.1	3321.6	7503.3	13864.6	16334.2	17727.1
70°	976.3	1036.4	1254.0	1683.1	1756.6	1847.8	4545.5	11785.6	16292.8	18251.5
72.5°	723.4	764.8	911.0	1305.8	1421.9	1247.8	2250.0	8565.6	14000.3	16508.3
75°	523.4	554.5	662.2	999.1	1137.9	950.4	1122.4	5005.7	9765.7	11612.5
77.5°	400.0	423.9	494.3	731.7	911.0	713.0	696.4	2302.8	4630.5	4653.3
80°	321.3	336.8	375.2	515.1	698.5	533.7	453.9	929.6	1463.4	1238.5
82.5°	236.3	262.2	317.1	361.7	499.5	367.9	276.7	469.5	556.5	478.8
85°	134.7	152.3	191.7	259.1	319.2	224.9	158.6	208.3	259.1	212.5
87.5°	47.7	62.2	67.4	101.6	138.9	93.3	61.1	60.1	85.0	63.2
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°
2863.5	0°	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5
2894.6	2.5°	2884.2	2879.0	2858.3	2830.3	2801.3	2773.3	2764.0	2744.3	2730.8	2723.6
2961.9	5°	2942.3	2925.7	2877.0	2814.8	2749.5	2679.0	2629.3	2583.7	2550.5	2519.4
3054.2	7.5°	3025.2	2996.1	2912.2	2803.4	2687.3	2570.2	2483.1	2416.8	2372.2	2343.2
3162.0	10°	3121.5	3077.0	2948.5	2785.8	2606.5	2438.6	2336.0	2279.0	2251.0	2235.4
3285.3	12.5°	3232.4	3169.2	2985.8	2745.3	2483.1	2291.4	2220.9	2204.4	2205.4	2206.4
3440.7	15°	3369.2	3281.1	3015.8	2657.3	2322.5	2178.4	2166.0	2193.0	2220.9	2234.4
3616.9	17.5°	3523.7	3399.3	3021.0	2512.2	2165.0	2105.9	2145.3	2203.3	2245.8	2264.5
3813.8	20°	3689.5	3519.5	2983.7	2307.0	2035.4	2046.8	2117.3	2191.9	2238.6	2262.4
4038.7	22.5°	3879.1	3648.0	2894.6	2091.4	1929.7	1982.6	2065.5	2138.0	2186.7	2210.6
4303.0	25°	4095.7	3792.1	2754.7	1910.0	1838.5	1910.0	1992.9	2053.0	2092.4	2114.2
4598.4	27.5°	4336.2	3942.3	2568.1	1766.0	1758.7	1835.4	1903.8	1950.4	1971.2	1987.8
4912.4	30°	4577.6	4079.2	2342.2	1657.2	1689.3	1761.8	1810.5	1831.3	1837.5	1840.6
5262.7	32.5°	4838.8	4197.3	2104.9	1567.0	1623.0	1690.3	1719.3	1728.7	1699.6	1680.0
5687.6	35°	5154.9	4323.7	1872.7	1495.5	1557.7	1615.7	1625.0	1616.7	1582.5	1542.1
6220.3	37.5°	5545.6	4481.3	1687.2	1444.7	1496.5	1534.9	1523.5	1521.4	1524.5	1476.8
6860.8	40°	6024.4	4686.5	1551.4	1405.3	1446.8	1455.1	1422.9	1440.6	1456.1	1383.6
7563.4	42.5°	6556.1	4934.2	1465.4	1378.4	1405.3	1385.6	1335.9	1355.6	1353.5	1258.2
8269.2	45°	7098.1	5203.6	1435.4	1358.7	1367.0	1327.6	1272.7	1277.8	1234.3	1148.3
8945.9	47.5°	7637.0	5492.8	1454.0	1342.1	1319.3	1274.7	1232.2	1209.4	1145.2	1080.9
9594.7	50°	8165.6	5796.4	1522.4	1308.9	1254.0	1228.1	1197.0	1156.6	1088.2	1033.3
10208.2	52.5°	8655.8	6102.1	1599.1	1254.0	1172.1	1187.7	1168.0	1121.4	1054.0	998.0
10788.6	55°	9120.1	6407.9	1629.2	1178.4	1095.4	1152.4	1141.0	1055.0	974.2	928.6
11395.9	57.5°	9625.8	6775.8	1596.0	1082.0	1033.3	1112.0	1068.5	973.2	926.5	892.3
12186.7	60°	10326.4	7353.0	1524.5	962.8	974.2	1051.9	977.3	937.9	887.1	848.8
13372.3	62.5°	11490.2	8429.8	1409.5	844.6	904.8	962.8	933.8	894.4	842.6	805.3
15399.4	65°	13210.6	9926.3	1192.9	752.4	827.0	875.7	887.1	847.8	793.9	754.5
17175.8	67.5°	14661.5	10865.3	902.7	675.7	747.2	805.3	837.4	799.0	742.0	703.7
17591.3	70°	14581.7	10183.4	689.2	600.1	676.7	735.8	777.3	747.2	686.1	649.8
15978.7	72.5°	12951.5	8519.0	557.6	523.4	605.2	663.3	713.0	690.2	628.0	592.8
11705.8	75°	9514.9	6047.2	445.6	445.6	516.1	587.6	642.5	628.0	571.0	546.2
4914.5	77.5°	4010.7	2537.0	349.3	370.0	429.1	504.7	573.1	578.3	528.5	559.6
1299.6	80°	1066.4	699.5	266.3	291.2	336.8	416.6	498.5	496.4	442.5	413.5
482.9	82.5°	406.3	275.7	189.7	205.2	243.5	319.2	394.9	407.3	353.4	305.7
189.7	85°	156.5	118.1	117.1	123.3	142.0	211.4	298.5	308.8	266.3	225.9
52.9	87.5°	40.4	35.2	43.5	41.5	65.3	113.0	171.0	177.2	162.7	94.3
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>
2863.5
2731.9
2531.9
2349.4
2239.6
2208.5
2233.4
2268.6
2268.6
2216.8
2120.4
1994.0
1847.8
1686.2
1544.2
1479.9
1385.6
1257.1
1151.4
1080.9
1029.1
999.1
924.4
889.2
846.7
805.3
756.5
704.7
652.9
592.8
538.9
507.8
384.5
305.7
233.2
134.7
0.0

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