

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: P940995

Luminaire Tested: **GALN-SB4B-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940995
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-SB4B-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19445 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

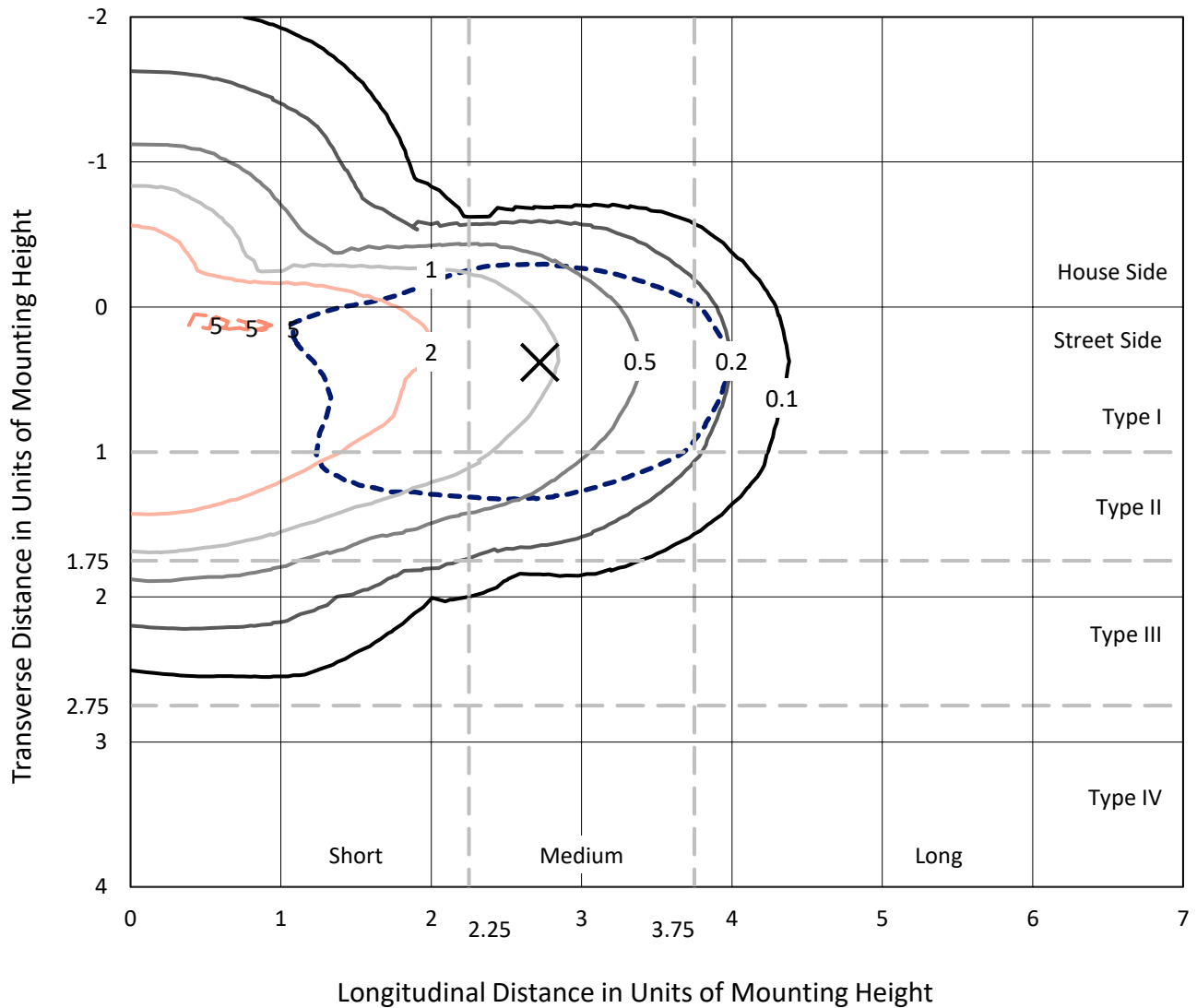
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

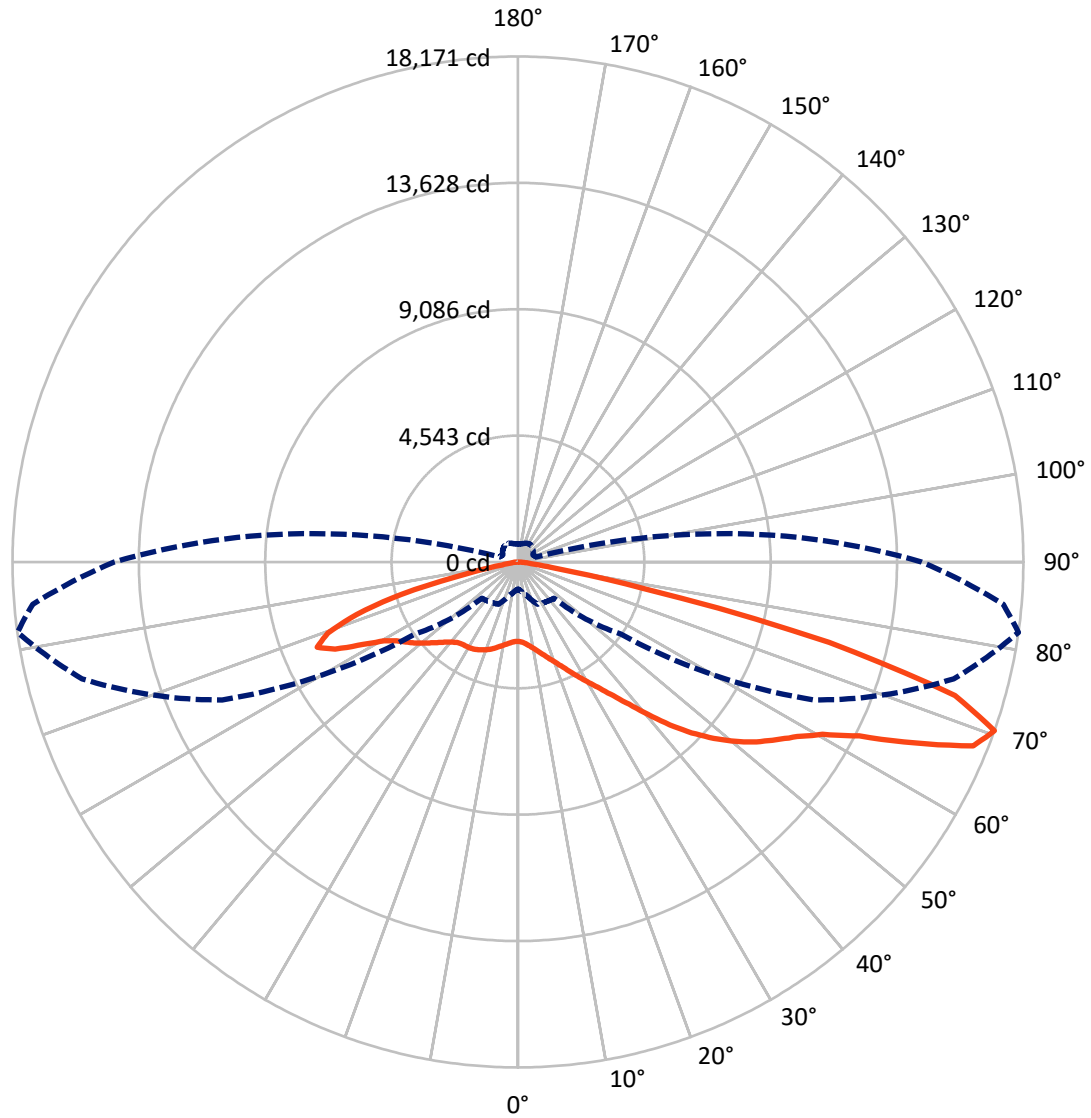
× Max cd
 - - - 1/2 Max cd



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	4793.7	0.0	4793.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14651.3	0.0	14651.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	19445.0	0.0	19445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	1.4
10°-20°	773.3	4.0
20°-30°	1293.7	6.7
30°-40°	2021.2	10.4
40°-50°	3218.9	16.6
50°-60°	4479.5	23.0
60°-70°	4685.8	24.1
70°-80°	2449.0	12.6
80°-90°	254.3	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°	19445.0	100.0
0°-180°	19445.0	100.0

Coefficient of Utilization



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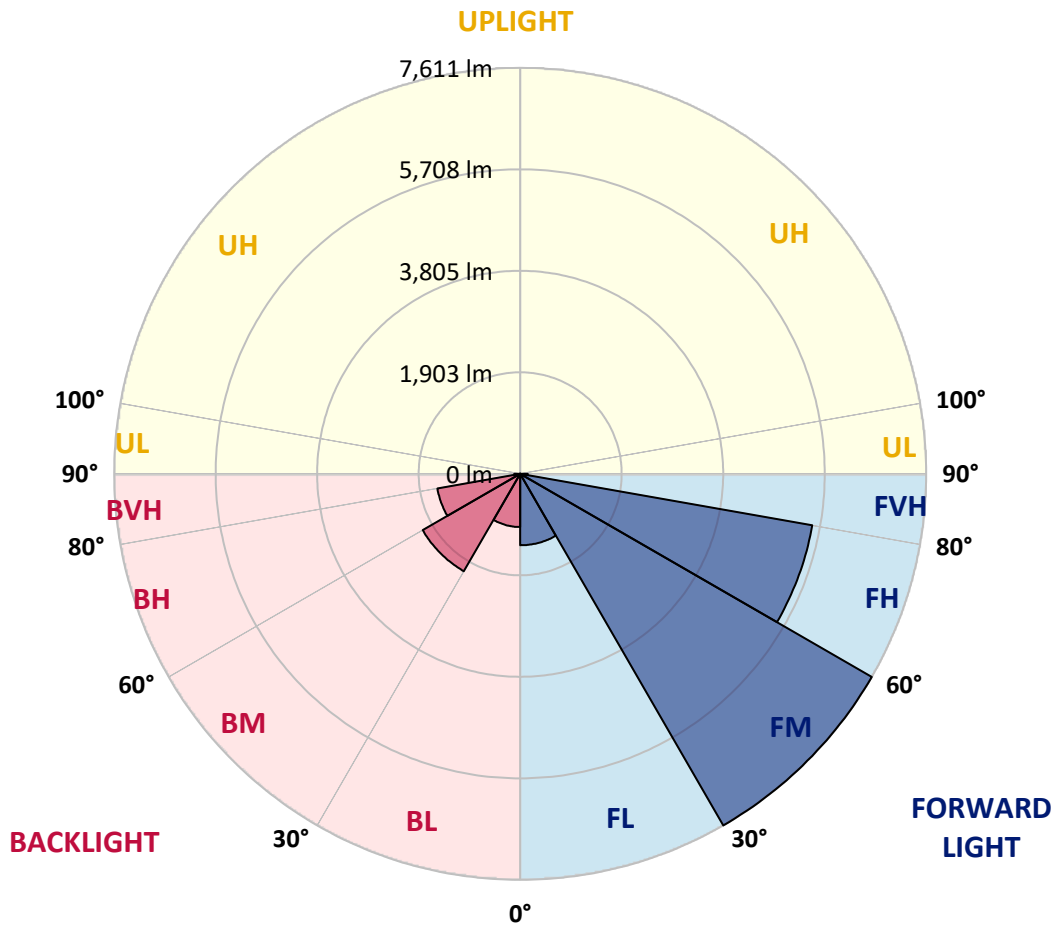
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.0	6.9			
FM (30°-60°)	7610.6	39.1			
FH (60°-80°)	5559.4	28.6			G3/7500
FVH (80°-90°)	142.4	0.7			G2/225
BL (0°-30°)	997.3	5.1	B2/1000		
BM (30°-60°)	2109.0	10.8	B2/2500		
BH (60°-80°)	1575.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	111.9	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°	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9
2.5°	2919.0	2935.5	2930.3	2925.2	2925.2	2917.9	2916.9	2906.6	2898.3	2884.9
5°	2956.1	2973.7	2971.6	2975.7	2989.1	2992.2	2995.3	2989.1	2972.6	2956.1
7.5°	2923.1	2942.7	2948.9	2973.7	3014.9	3052.1	3079.9	3091.3	3075.8	3052.1
10°	2811.7	2833.3	2855.0	2913.8	2987.1	3074.8	3149.1	3193.4	3190.3	3167.6
12.5°	2585.7	2608.4	2654.8	2769.4	2903.5	3058.3	3196.5	3289.4	3321.4	3304.9
15°	2405.1	2424.7	2459.8	2577.5	2751.8	2987.1	3214.1	3394.6	3476.2	3466.9
17.5°	2400.0	2408.2	2429.9	2485.6	2619.8	2875.6	3195.5	3497.8	3653.6	3652.6
20°	2490.8	2493.9	2506.3	2517.6	2594.0	2791.0	3148.0	3583.5	3852.8	3852.8
22.5°	2616.7	2614.6	2627.0	2616.7	2653.8	2783.8	3118.1	3658.8	4074.6	4091.1
25°	2805.5	2795.2	2792.1	2768.3	2775.6	2850.9	3151.1	3744.4	4337.7	4371.8
27.5°	3057.2	3040.7	3029.4	2974.7	2956.1	2989.1	3252.3	3847.6	4630.7	4689.6
30°	3385.4	3355.4	3338.9	3244.0	3176.9	3182.1	3405.0	3984.8	4937.2	5032.1
32.5°	3833.2	3786.7	3742.4	3586.6	3463.8	3423.5	3602.0	4174.7	5269.4	5421.1
35°	4334.6	4297.5	4250.0	4009.6	3820.8	3727.9	3868.2	4439.9	5658.4	5898.8
37.5°	4817.5	4785.5	4808.2	4484.2	4240.7	4105.6	4217.0	4795.8	6138.2	6493.2
40°	5316.9	5292.1	5295.2	4985.7	4701.9	4550.3	4640.0	5242.6	6688.2	7199.9
42.5°	5859.6	5841.1	5779.1	5504.7	5185.9	5044.5	5127.0	5758.5	7278.4	8004.8
45°	6467.4	6456.0	6398.2	6083.5	5718.3	5559.4	5670.8	6328.1	7871.6	8762.1
47.5°	6992.5	7001.8	6994.6	6729.4	6350.8	6117.6	6250.7	6922.4	8423.7	9474.0
50°	7245.3	7293.8	7365.0	7282.5	7047.2	6809.9	6835.7	7496.1	8949.9	10141.6
52.5°	7113.3	7205.1	7399.1	7531.2	7622.0	7572.4	7503.3	8065.6	9445.2	10744.2
55°	6621.1	6750.1	7072.0	7390.8	7854.1	8214.2	8305.0	8697.1	9928.0	11274.5
57.5°	5724.5	5933.9	6222.8	6867.7	7647.7	8524.8	9239.8	9573.1	10439.8	11841.0
60°	4187.1	4467.7	4826.8	5786.4	6925.5	8358.7	10035.3	10918.6	11167.2	12574.6
62.5°	2679.6	2852.9	3183.1	4087.0	5396.3	7507.4	10278.9	12600.4	12400.2	13777.7
65°	1834.6	1946.0	2248.3	2756.0	3488.5	5588.3	9626.8	13861.3	14358.6	15684.5
67.5°	1333.1	1417.7	1675.7	2120.4	2273.1	3306.9	7470.3	13803.5	16262.3	17649.0
70°	972.0	1031.8	1248.5	1675.7	1748.9	1839.7	4525.5	11733.7	16221.0	18171.1
72.5°	720.2	761.5	907.0	1300.1	1415.6	1242.3	2240.1	8527.9	13938.7	16435.6
75°	521.1	552.0	659.3	994.7	1132.9	946.2	1117.4	4983.6	9722.7	11561.4
77.5°	398.3	422.0	492.2	728.5	907.0	709.9	693.4	2292.7	4610.1	4632.8
80°	319.9	335.3	373.5	512.8	695.4	531.4	451.9	925.5	1456.9	1233.0
82.5°	235.3	261.0	315.7	360.1	497.3	366.3	275.5	467.4	554.1	476.7
85°	134.1	151.7	190.9	258.0	317.8	223.9	157.9	207.4	258.0	211.5
87.5°	47.5	61.9	67.1	101.1	138.3	92.9	60.9	59.8	84.6	62.9
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°
2850.9	0°	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9	2850.9
2881.8	2.5°	2871.5	2866.4	2845.7	2817.9	2789.0	2761.1	2751.8	2732.2	2718.8	2711.6
2948.9	5°	2929.3	2912.8	2864.3	2802.4	2737.4	2667.2	2617.7	2572.3	2539.3	2508.3
3040.7	7.5°	3011.8	2983.0	2899.4	2791.0	2675.5	2558.9	2472.2	2406.2	2361.8	2332.9
3148.0	10°	3107.8	3063.4	2935.5	2773.5	2595.0	2427.8	2325.7	2268.9	2241.1	2225.6
3270.8	12.5°	3218.2	3155.3	2972.6	2733.3	2472.2	2281.3	2211.2	2194.7	2195.7	2196.7
3425.6	15°	3354.4	3266.7	3002.6	2645.6	2312.3	2168.9	2156.5	2183.3	2211.2	2224.6
3601.0	17.5°	3508.1	3384.3	3007.7	2501.1	2155.4	2096.6	2135.8	2193.6	2235.9	2254.5
3797.0	20°	3673.2	3504.0	2970.6	2296.8	2026.5	2037.8	2108.0	2182.3	2228.7	2252.4
4020.9	22.5°	3862.1	3632.0	2881.8	2082.2	1921.2	1973.8	2056.4	2128.6	2177.1	2200.8
4284.1	25°	4077.7	3775.4	2742.5	1901.6	1830.4	1901.6	1984.2	2044.0	2083.2	2104.9
4578.1	27.5°	4317.1	3925.0	2556.8	1758.2	1751.0	1827.3	1895.4	1941.9	1962.5	1979.0
4890.8	30°	4557.5	4061.2	2331.9	1649.9	1681.8	1754.1	1802.6	1823.2	1829.4	1832.5
5239.5	32.5°	4817.5	4178.8	2095.6	1560.1	1615.8	1682.9	1711.8	1721.1	1692.2	1672.6
5662.6	35°	5132.2	4304.7	1864.5	1488.9	1550.8	1608.6	1617.9	1609.6	1575.6	1535.3
6192.9	37.5°	5521.2	4461.5	1679.8	1438.3	1489.9	1528.1	1516.8	1514.7	1517.8	1470.3
6830.6	40°	5997.9	4665.8	1544.6	1399.1	1440.4	1448.7	1416.7	1434.2	1449.7	1377.5
7530.1	42.5°	6527.2	4912.4	1459.0	1372.3	1399.1	1379.5	1330.0	1349.6	1347.5	1252.6
8232.8	45°	7066.8	5180.7	1429.1	1352.7	1361.0	1321.7	1267.1	1272.2	1228.9	1143.2
8906.5	47.5°	7603.4	5468.6	1447.6	1336.2	1313.5	1269.1	1226.8	1204.1	1140.1	1076.2
9552.5	50°	8129.6	5770.9	1515.7	1303.2	1248.5	1222.7	1191.7	1151.5	1083.4	1028.7
10163.3	52.5°	8617.6	6075.3	1592.1	1248.5	1167.0	1182.4	1162.8	1116.4	1049.3	993.6
10741.1	55°	9079.9	6379.7	1622.0	1173.2	1090.6	1147.4	1136.0	1050.4	969.9	924.5
11345.7	57.5°	9583.4	6745.9	1589.0	1077.2	1028.7	1107.1	1063.8	968.9	922.4	888.4
12133.0	60°	10280.9	7320.7	1517.8	958.5	969.9	1047.3	973.0	933.8	883.2	845.0
13313.4	62.5°	11439.6	8392.7	1403.3	840.9	900.8	958.5	929.7	890.4	838.9	801.7
15331.6	65°	13152.4	9882.6	1187.6	749.1	823.4	871.9	883.2	844.0	790.4	751.2
17100.1	67.5°	14597.0	10817.5	898.7	672.7	743.9	801.7	833.7	795.5	738.8	700.6
17513.9	70°	14517.5	10138.5	686.2	597.4	673.8	732.6	773.9	743.9	683.1	646.9
15908.4	72.5°	12894.5	8481.4	555.1	521.1	602.6	660.4	709.9	687.2	625.3	590.2
11654.2	75°	9473.0	6020.6	443.7	443.7	513.8	585.0	639.7	625.3	568.5	543.8
4892.8	77.5°	3993.1	2525.9	347.7	368.4	427.2	502.5	570.6	575.7	526.2	557.2
1293.9	80°	1061.7	696.5	265.2	289.9	335.3	414.8	496.3	494.2	440.6	411.7
480.8	82.5°	404.5	274.5	188.8	204.3	242.5	317.8	393.1	405.5	351.8	304.4
188.8	85°	155.8	117.6	116.6	122.8	141.4	210.5	297.2	307.5	265.2	224.9
52.6	87.5°	40.2	35.1	43.3	41.3	65.0	112.5	170.2	176.4	162.0	93.9
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>
2850.9
2719.8
2520.7
2339.1
2229.7
2198.8
2223.5
2258.6
2258.6
2207.0
2111.1
1985.2
1839.7
1678.7
1537.4
1473.4
1379.5
1251.6
1146.3
1076.2
1024.6
994.7
920.4
885.3
843.0
801.7
753.2
701.6
650.0
590.2
536.5
505.6
382.8
304.4
232.2
134.1
0.0

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