

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: P940485

Luminaire Tested: **GALN-SB3C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940485
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-SB3C-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19360 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

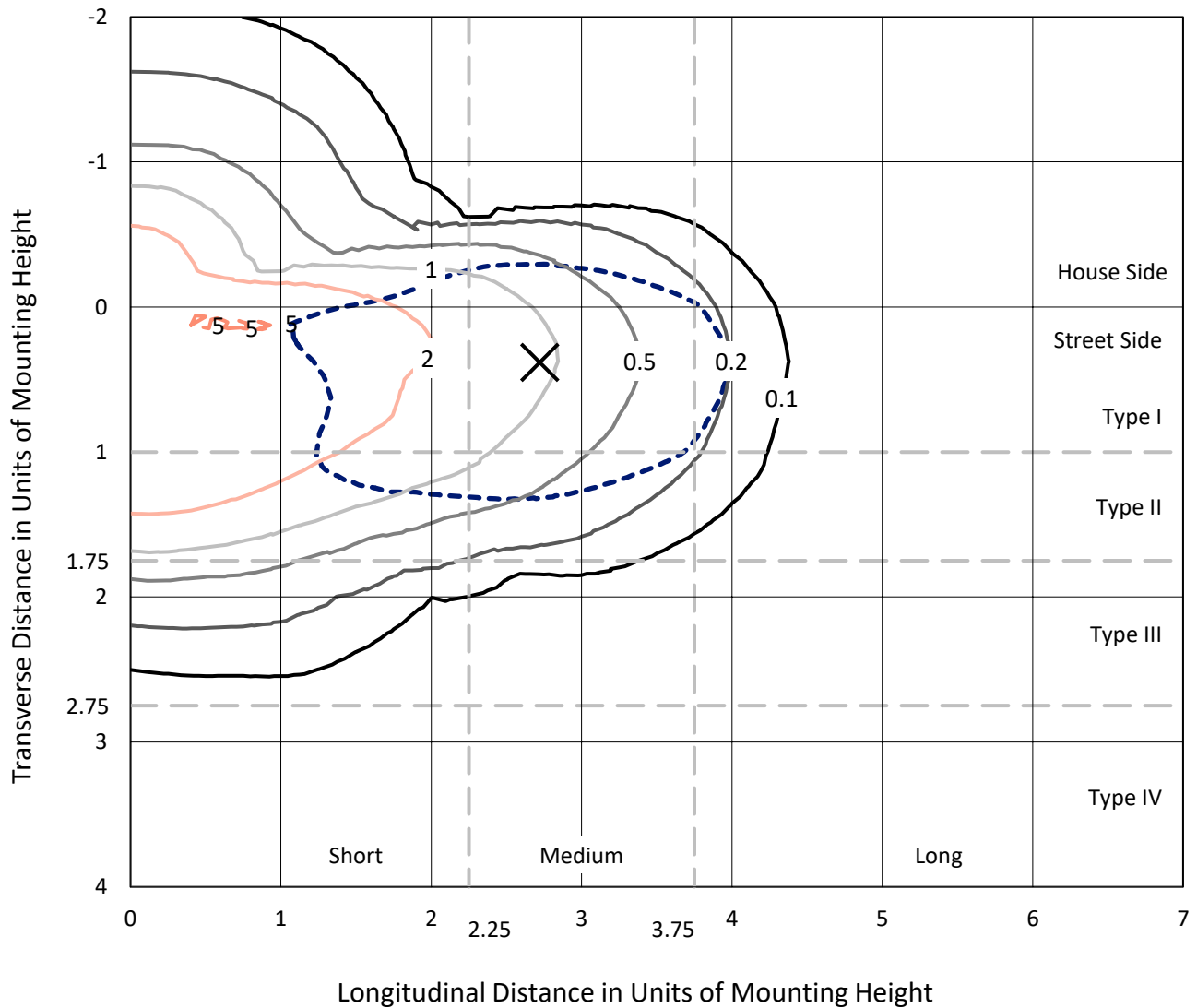
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

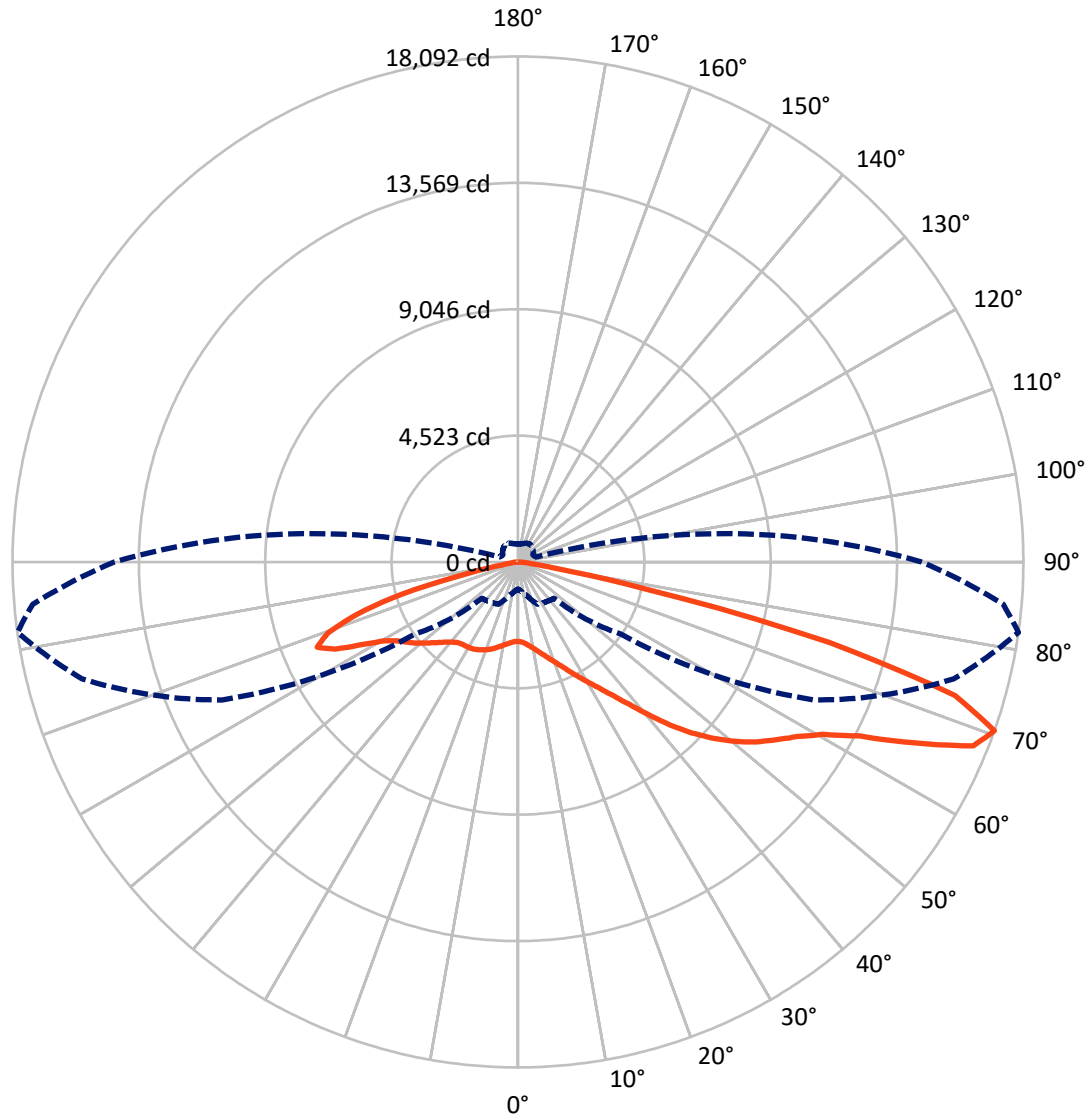
✕ Max cd
 - - - 1/2 Max cd



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	4772.7	0.0	4772.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14587.3	0.0	14587.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	19360.0	0.0	19360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.4
10°-20°	770.0	4.0
20°-30°	1288.1	6.7
30°-40°	2012.3	10.4
40°-50°	3204.9	16.6
50°-60°	4459.9	23.0
60°-70°	4665.3	24.1
70°-80°	2438.3	12.6
80°-90°	253.2	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°	19360.0	100.0
0°-180°	19360.0	100.0

Coefficient of Utilization



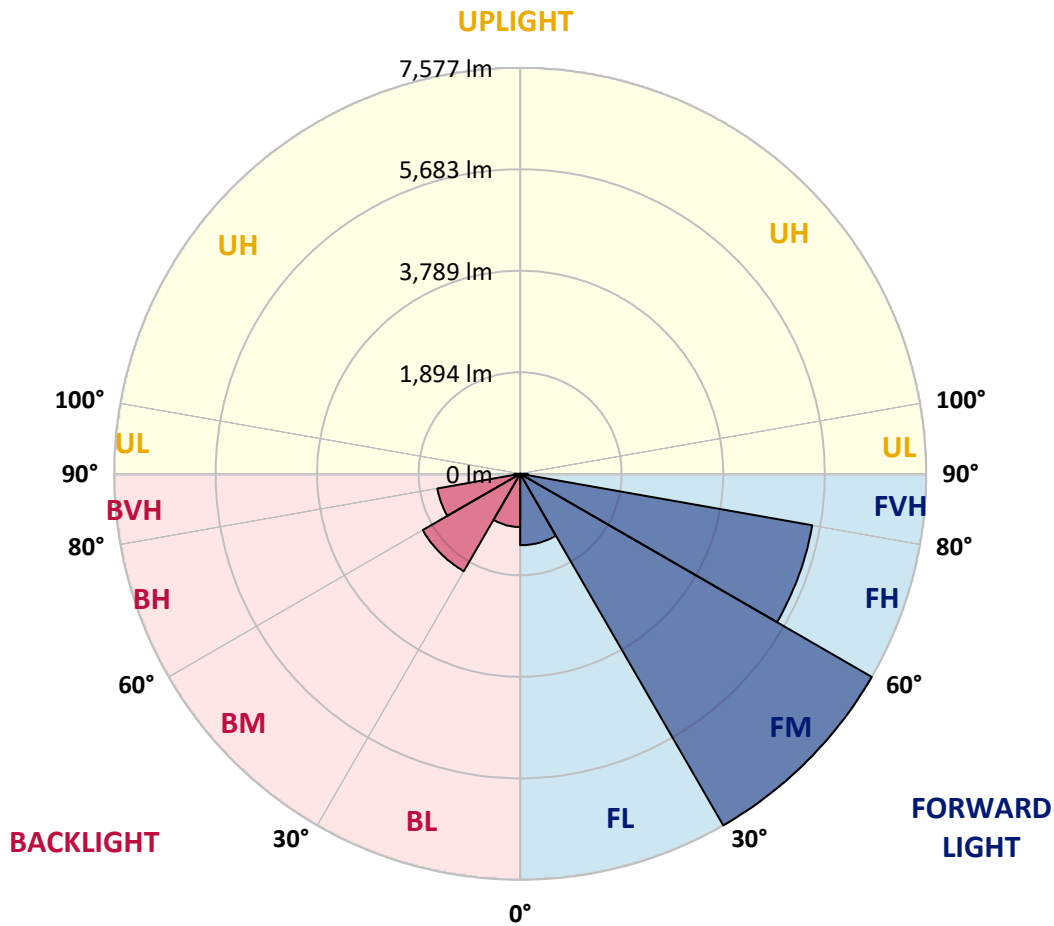
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.2	6.9			
FM (30°-60°)	7577.3	39.1			
FH (60°-80°)	5535.1	28.6			G3/7500
FVH (80°-90°)	141.7	0.7			G2/225
BL (0°-30°)	992.9	5.1	B2/1000		
BM (30°-60°)	2099.8	10.8	B2/2500		
BH (60°-80°)	1568.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	111.5	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°	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4
2.5°	2906.2	2922.7	2917.5	2912.4	2912.4	2905.2	2904.2	2893.9	2885.7	2872.3
5°	2943.2	2960.7	2958.6	2962.7	2976.1	2979.2	2982.2	2976.1	2959.6	2943.2
7.5°	2910.3	2929.8	2936.0	2960.7	3001.8	3038.7	3066.5	3077.8	3062.4	3038.7
10°	2799.4	2821.0	2842.5	2901.1	2974.0	3061.3	3135.3	3179.5	3176.4	3153.8
12.5°	2574.4	2597.0	2643.2	2757.3	2890.8	3044.9	3182.6	3275.0	3306.9	3290.4
15°	2394.6	2414.1	2449.1	2566.2	2739.8	2974.0	3200.0	3379.8	3461.0	3451.7
17.5°	2389.5	2397.7	2419.3	2474.8	2608.3	2863.1	3181.5	3482.5	3637.7	3636.6
20°	2479.9	2483.0	2495.3	2506.6	2582.6	2778.8	3134.3	3567.8	3835.9	3835.9
22.5°	2605.2	2603.2	2615.5	2605.2	2642.2	2771.6	3104.5	3642.8	4056.8	4073.2
25°	2793.2	2782.9	2779.9	2756.2	2763.4	2838.4	3137.4	3728.1	4318.8	4352.7
27.5°	3043.9	3027.4	3016.1	2961.7	2943.2	2976.1	3238.0	3830.8	4610.5	4669.1
30°	3370.6	3340.8	3324.3	3229.8	3163.0	3168.2	3390.1	3967.4	4915.6	5010.1
32.5°	3816.4	3770.2	3726.0	3570.9	3448.6	3408.6	3586.3	4156.4	5246.4	5397.4
35°	4315.7	4278.7	4231.4	3992.1	3804.1	3711.6	3851.3	4420.5	5633.7	5873.0
37.5°	4796.4	4764.6	4787.2	4464.6	4222.2	4087.6	4198.6	4774.9	6111.4	6464.8
40°	5293.7	5269.0	5272.1	4963.9	4681.4	4530.4	4619.7	5219.7	6658.9	7168.5
42.5°	5834.0	5815.5	5753.9	5480.6	5163.2	5022.4	5104.6	5733.3	7246.5	7969.8
45°	6439.1	6427.8	6370.3	6056.9	5693.3	5535.1	5646.0	6300.4	7837.2	8723.8
47.5°	6962.0	6971.2	6964.0	6700.0	6323.0	6090.8	6223.4	6892.1	8386.8	9432.6
50°	7213.7	7262.0	7332.8	7250.7	7016.4	6780.2	6805.8	7463.3	8910.8	10097.3
52.5°	7082.2	7173.6	7366.7	7498.2	7588.6	7539.3	7470.5	8030.4	9403.9	10697.2
55°	6592.2	6720.6	7041.1	7358.5	7819.8	8178.3	8268.7	8659.1	9884.6	11225.3
57.5°	5699.4	5908.0	6195.6	6837.7	7614.3	8487.5	9199.4	9531.2	10394.2	11789.2
60°	4168.8	4448.2	4805.7	5761.1	6895.2	8322.1	9991.5	10870.8	11118.4	12519.7
62.5°	2667.9	2840.5	3169.2	4069.1	5372.8	7474.6	10233.9	12545.3	12346.0	13717.5
65°	1826.5	1937.5	2238.5	2743.9	3473.3	5563.8	9584.7	13800.7	14295.8	15615.9
67.5°	1327.3	1411.5	1668.3	2111.1	2263.1	3292.5	7437.6	13743.2	16191.2	17571.9
70°	967.7	1027.3	1243.0	1668.3	1741.3	1831.7	4505.7	11682.4	16150.1	18091.7
72.5°	717.1	758.1	903.0	1294.4	1409.4	1236.9	2230.3	8490.6	13877.7	16363.8
75°	518.8	549.6	656.4	990.3	1128.0	942.0	1112.6	4961.8	9680.2	11510.8
77.5°	396.5	420.2	490.0	725.3	903.0	706.8	690.3	2282.7	4590.0	4612.6
80°	318.5	333.9	371.9	510.6	692.4	529.1	450.0	921.5	1450.5	1227.6
82.5°	234.2	259.9	314.4	358.5	495.2	364.7	274.3	465.4	551.7	474.6
85°	133.5	151.0	190.0	256.8	316.4	222.9	157.2	206.5	256.8	210.6
87.5°	47.3	61.6	66.8	100.7	137.7	92.5	60.6	59.6	84.2	62.7
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°
2838.4	0°	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4
2869.2	2.5°	2859.0	2853.8	2833.3	2805.5	2776.8	2749.0	2739.8	2720.3	2706.9	2699.7
2936.0	5°	2916.5	2900.1	2851.8	2790.1	2725.4	2655.6	2606.2	2561.0	2528.2	2497.4
3027.4	7.5°	2998.7	2969.9	2886.7	2778.8	2663.8	2547.7	2461.4	2395.7	2351.5	2322.7
3134.3	10°	3094.2	3050.0	2922.7	2761.4	2583.6	2417.2	2315.5	2259.0	2231.3	2215.9
3256.5	12.5°	3204.1	3141.5	2959.6	2721.3	2461.4	2271.4	2201.5	2185.1	2186.1	2187.1
3410.6	15°	3339.7	3252.4	2989.4	2634.0	2302.2	2159.4	2147.0	2173.8	2201.5	2214.8
3585.3	17.5°	3492.8	3369.5	2994.6	2490.2	2146.0	2087.5	2126.5	2184.0	2226.1	2244.6
3780.4	20°	3657.2	3488.7	2957.6	2286.8	2017.6	2028.9	2098.8	2172.7	2219.0	2242.6
4003.4	22.5°	3845.2	3616.1	2869.2	2073.1	1912.8	1965.2	2047.4	2119.3	2167.6	2191.2
4265.3	25°	4059.9	3758.9	2730.6	1893.3	1822.4	1893.3	1975.5	2035.1	2074.1	2095.7
4558.1	27.5°	4298.2	3907.8	2545.6	1750.5	1743.3	1819.3	1887.1	1933.4	1953.9	1970.4
4869.4	30°	4537.6	4043.4	2321.7	1642.6	1674.5	1746.4	1794.7	1815.2	1821.4	1824.5
5216.6	32.5°	4796.4	4160.5	2086.4	1553.3	1608.7	1675.5	1704.3	1713.5	1684.8	1665.2
5637.8	35°	5109.8	4285.9	1856.3	1482.4	1544.0	1601.6	1610.8	1602.6	1568.7	1528.6
6165.8	37.5°	5497.1	4442.0	1672.4	1432.1	1483.4	1521.4	1510.1	1508.1	1511.2	1463.9
6800.7	40°	5971.7	4645.4	1537.9	1393.0	1434.1	1442.3	1410.5	1427.9	1443.4	1371.4
7497.2	42.5°	6498.7	4891.0	1452.6	1366.3	1393.0	1373.5	1324.2	1343.7	1341.6	1247.1
8196.8	45°	7035.9	5158.1	1422.8	1346.8	1355.0	1316.0	1261.5	1266.7	1223.5	1138.2
8867.6	47.5°	7570.1	5444.7	1441.3	1330.3	1307.7	1263.6	1221.5	1198.9	1135.2	1071.5
9510.7	50°	8094.1	5745.7	1509.1	1297.5	1243.0	1217.3	1186.5	1146.5	1078.7	1024.2
10118.9	52.5°	8580.0	6048.7	1585.1	1243.0	1161.9	1177.3	1157.8	1111.5	1044.8	989.3
10694.1	55°	9040.2	6351.8	1614.9	1168.0	1085.9	1142.4	1131.1	1045.8	965.7	920.5
11296.1	57.5°	9541.5	6716.5	1582.0	1072.5	1024.2	1102.3	1059.1	964.6	918.4	884.5
12080.0	60°	10236.0	7288.7	1511.2	954.4	965.7	1042.7	968.7	929.7	879.4	841.4
13255.2	62.5°	11389.6	8356.0	1397.1	837.2	896.8	954.4	925.6	886.6	835.2	798.2
15264.6	65°	13094.9	9839.4	1182.4	745.8	819.8	868.1	879.4	840.3	786.9	747.9
17025.4	67.5°	14533.2	10770.2	894.8	669.8	740.7	798.2	830.1	792.0	735.5	697.5
17437.3	70°	14454.1	10094.2	683.2	594.8	670.8	729.4	770.5	740.7	680.1	644.1
15838.8	72.5°	12838.1	8444.4	552.7	518.8	599.9	657.5	706.8	684.2	622.5	587.6
11603.3	75°	9431.6	5994.3	441.7	441.7	511.6	582.5	636.9	622.5	566.0	541.4
4871.4	77.5°	3975.6	2514.8	346.2	366.7	425.3	500.3	568.1	573.2	523.9	554.7
1288.2	80°	1057.1	693.4	264.0	288.7	333.9	413.0	494.1	492.1	438.7	409.9
478.7	82.5°	402.7	273.3	188.0	203.4	241.4	316.4	391.4	403.7	350.3	303.1
188.0	85°	155.1	117.1	116.1	122.2	140.7	209.6	295.9	306.1	264.0	224.0
52.4	87.5°	40.1	34.9	43.1	41.1	64.7	112.0	169.5	175.7	161.3	93.5
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>
2838.4
2708.0
2509.7
2328.9
2220.0
2189.2
2213.8
2248.8
2248.8
2197.4
2101.8
1976.5
1831.7
1671.4
1530.7
1467.0
1373.5
1246.1
1141.3
1071.5
1020.1
990.3
916.3
881.4
839.3
798.2
749.9
698.6
647.2
587.6
534.2
503.4
381.1
303.1
231.1
133.5
0.0

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