

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: P941505

Luminaire Tested: **GALN-SB5A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941505
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-SB5A-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19524 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

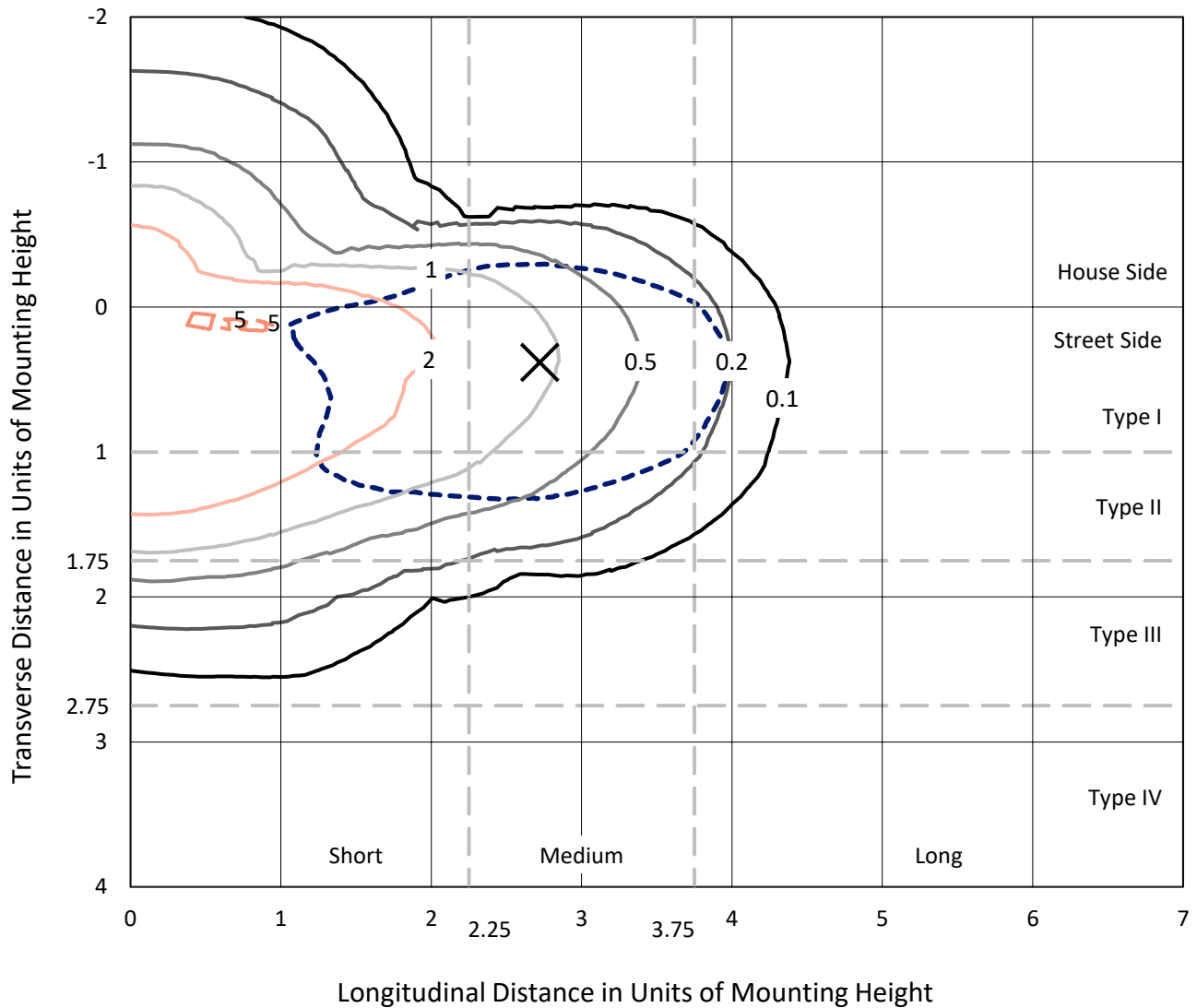
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

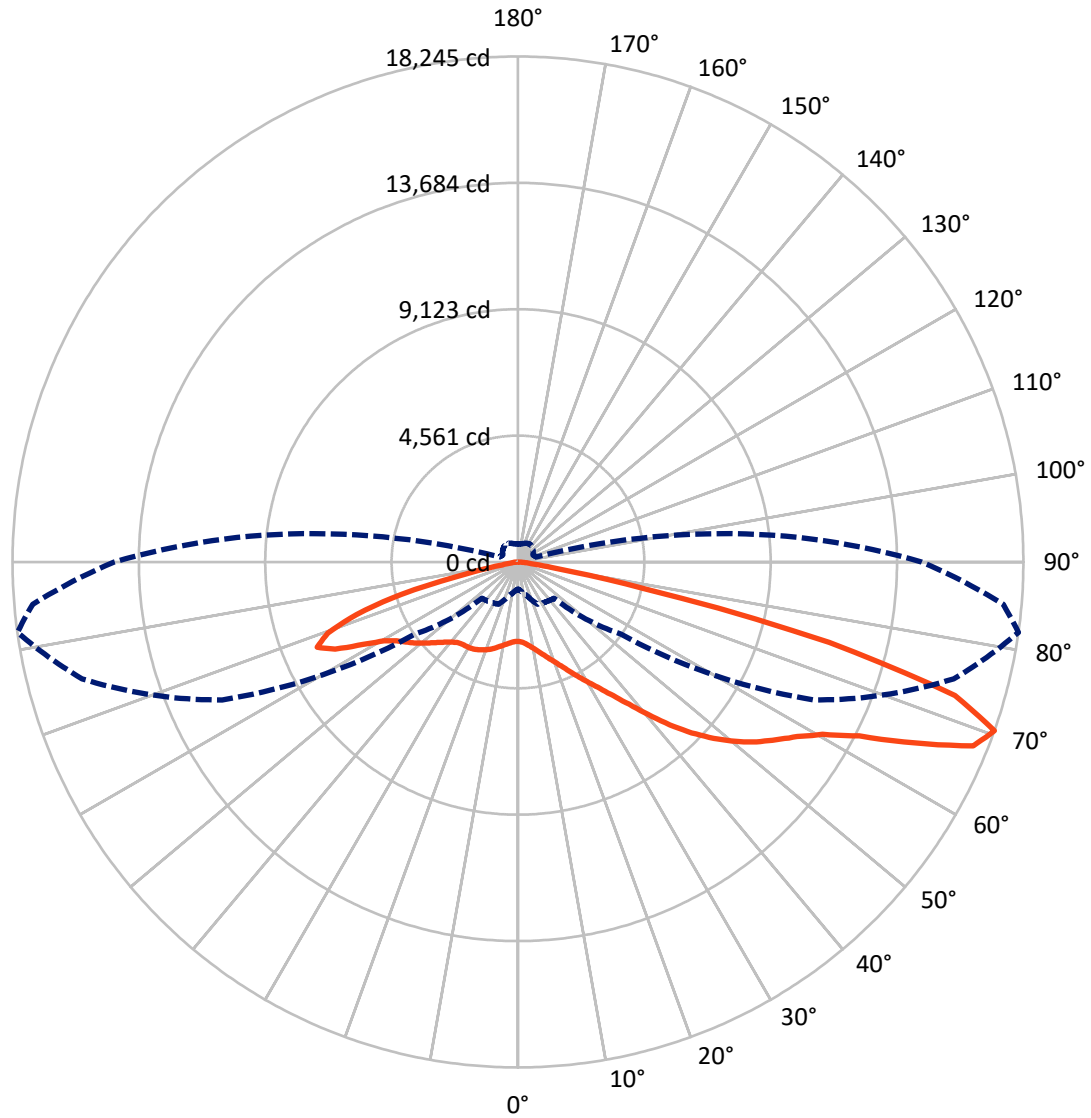
✕ Max cd
 - - - 1/2 Max cd



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	4813.1	0.0	4813.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14710.9	0.0	14710.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	19524.0	0.0	19524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	1.4
10°-20°	776.5	4.0
20°-30°	1299.0	6.7
30°-40°	2029.4	10.4
40°-50°	3232.0	16.6
50°-60°	4497.7	23.0
60°-70°	4704.8	24.1
70°-80°	2459.0	12.6
80°-90°	255.3	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°	19524.0	100.0
0°-180°	19524.0	100.0

Coefficient of Utilization



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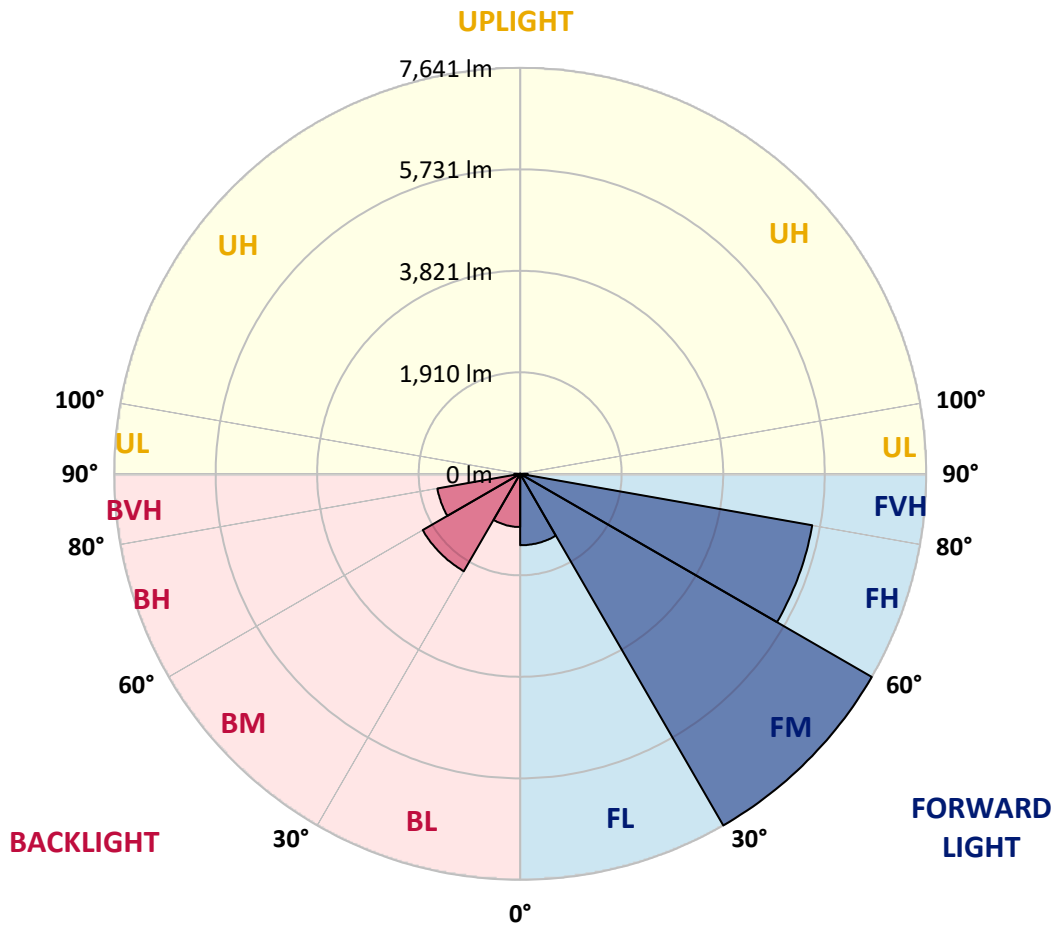
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.4	6.9			
FM (30°-60°)	7641.5	39.1			
FH (60°-80°)	5582.0	28.6			G3/7500
FVH (80°-90°)	142.9	0.7			G2/225
BL (0°-30°)	1001.3	5.1	B3/2500		
BM (30°-60°)	2117.6	10.8	B2/2500		
BH (60°-80°)	1581.8	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°	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5
2.5°	2930.8	2947.4	2942.2	2937.1	2937.1	2929.8	2928.8	2918.4	2910.1	2896.7
5°	2968.1	2985.7	2983.7	2987.8	3001.3	3004.4	3007.5	3001.3	2984.7	2968.1
7.5°	2935.0	2954.7	2960.9	2985.7	3027.2	3064.5	3092.5	3103.9	3088.3	3064.5
10°	2823.1	2844.9	2866.6	2925.7	2999.2	3087.3	3161.9	3206.4	3203.3	3180.5
12.5°	2596.2	2619.0	2665.6	2780.6	2915.3	3070.7	3209.5	3302.8	3334.9	3318.3
15°	2414.9	2434.6	2469.8	2587.9	2763.0	2999.2	3227.1	3408.4	3490.3	3481.0
17.5°	2409.7	2418.0	2439.8	2495.7	2630.4	2887.3	3208.5	3512.0	3668.5	3667.4
20°	2500.9	2504.0	2516.4	2527.8	2604.5	2802.4	3160.8	3598.0	3868.4	3868.4
22.5°	2627.3	2625.2	2637.7	2627.3	2664.6	2795.1	3130.8	3673.6	4091.2	4107.7
25°	2816.9	2806.5	2803.4	2779.6	2786.8	2862.5	3163.9	3759.6	4355.3	4389.5
27.5°	3069.7	3053.1	3041.7	2986.8	2968.1	3001.3	3265.5	3863.2	4649.6	4708.6
30°	3399.1	3369.1	3352.5	3257.2	3189.8	3195.0	3418.8	4001.0	4957.3	5052.6
32.5°	3848.7	3802.1	3757.6	3601.1	3477.8	3437.4	3616.7	4191.6	5290.8	5443.1
35°	4352.2	4314.9	4267.3	4025.9	3836.3	3743.1	3884.0	4457.9	5681.4	5922.8
37.5°	4837.1	4805.0	4827.8	4502.4	4258.0	4122.2	4234.1	4815.3	6163.2	6519.5
40°	5338.5	5313.6	5316.7	5005.9	4721.0	4568.8	4658.9	5263.9	6715.3	7229.2
42.5°	5883.4	5864.8	5802.6	5527.0	5206.9	5065.0	5147.9	5781.9	7307.9	8037.3
45°	6493.6	6482.2	6424.2	6108.2	5741.5	5582.0	5693.8	6353.8	7903.6	8797.7
47.5°	7021.0	7030.3	7023.0	6756.8	6376.6	6142.4	6276.1	6950.5	8457.9	9512.5
50°	7274.8	7323.5	7395.0	7312.1	7075.9	6837.6	6863.5	7526.5	8986.2	10182.8
52.5°	7142.2	7234.4	7429.1	7561.7	7652.9	7603.2	7533.8	8098.4	9483.5	10787.8
55°	6648.0	6777.5	7100.7	7420.9	7886.0	8247.6	8338.7	8732.4	9968.4	11320.4
57.5°	5747.7	5958.0	6248.1	6895.6	7678.8	8559.4	9277.4	9612.0	10482.2	11889.1
60°	4204.1	4485.9	4846.4	5809.9	6953.6	8392.6	10076.1	10962.9	11212.6	12625.7
62.5°	2690.5	2864.5	3196.1	4103.6	5418.3	7537.9	10320.6	12651.6	12450.6	13833.7
65°	1842.0	1953.9	2257.4	2767.2	3502.7	5611.0	9665.9	13917.6	14416.9	15748.2
67.5°	1338.5	1423.5	1682.5	2129.0	2282.3	3320.4	7500.6	13859.6	16328.4	17720.7
70°	975.9	1036.0	1253.6	1682.5	1756.0	1847.2	4543.9	11781.4	16286.9	18245.0
72.5°	723.1	764.6	910.6	1305.4	1421.4	1247.3	2249.2	8562.5	13995.3	16502.4
75°	523.2	554.3	662.0	998.7	1137.5	950.0	1122.0	5003.9	9762.2	11608.4
77.5°	399.9	423.7	494.2	731.4	910.6	712.8	696.2	2302.0	4628.8	4651.6
80°	321.2	336.7	375.0	514.9	698.3	533.5	453.8	929.3	1462.8	1238.0
82.5°	236.2	262.1	317.0	361.6	499.4	367.8	276.6	469.3	556.3	478.6
85°	134.7	152.3	191.7	259.0	319.1	224.8	158.5	208.2	259.0	212.4
87.5°	47.7	62.2	67.3	101.5	138.8	93.2	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°
2862.5	0°	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5
2893.5	2.5°	2883.2	2878.0	2857.3	2829.3	2800.3	2772.3	2763.0	2743.3	2729.9	2722.6
2960.9	5°	2941.2	2924.6	2875.9	2813.8	2748.5	2678.1	2628.3	2582.7	2549.6	2518.5
3053.1	7.5°	3024.1	2995.1	2911.2	2802.4	2686.3	2569.3	2482.3	2415.9	2371.4	2342.4
3160.8	10°	3120.4	3075.9	2947.4	2784.8	2605.5	2437.7	2335.1	2278.2	2250.2	2234.6
3284.1	12.5°	3231.3	3168.1	2984.7	2744.4	2482.3	2290.6	2220.1	2203.6	2204.6	2205.6
3439.5	15°	3368.0	3280.0	3014.8	2656.3	2321.7	2177.7	2165.2	2192.2	2220.1	2233.6
3615.6	17.5°	3522.4	3398.1	3019.9	2511.3	2164.2	2105.1	2144.5	2202.5	2245.0	2263.7
3812.5	20°	3688.2	3518.2	2982.6	2306.1	2034.7	2046.1	2116.5	2191.1	2237.8	2261.6
4037.3	22.5°	3877.7	3646.7	2893.5	2090.6	1929.0	1981.9	2064.7	2137.3	2186.0	2209.8
4301.5	25°	4094.3	3790.7	2753.7	1909.3	1837.9	1909.3	1992.2	2052.3	2091.7	2113.4
4596.7	27.5°	4334.6	3940.9	2567.2	1765.3	1758.1	1834.8	1903.1	1949.7	1970.5	1987.0
4910.6	30°	4576.0	4077.7	2341.4	1656.6	1688.7	1761.2	1809.9	1830.6	1836.8	1839.9
5260.8	32.5°	4837.1	4195.8	2104.1	1566.4	1622.4	1689.7	1718.7	1728.0	1699.0	1679.4
5685.6	35°	5153.1	4322.2	1872.0	1494.9	1557.1	1615.1	1624.4	1616.2	1582.0	1541.6
6218.1	37.5°	5543.6	4479.7	1686.6	1444.2	1496.0	1534.3	1522.9	1520.8	1524.0	1476.3
6858.3	40°	6022.3	4684.8	1550.9	1404.8	1446.3	1454.5	1422.4	1440.0	1455.6	1383.1
7560.7	42.5°	6553.7	4932.4	1464.9	1377.9	1404.8	1385.1	1335.4	1355.1	1353.0	1257.7
8266.2	45°	7095.6	5201.7	1434.9	1358.2	1366.5	1327.1	1272.2	1277.4	1233.9	1147.9
8942.7	47.5°	7634.3	5490.8	1453.5	1341.6	1318.8	1274.3	1231.8	1209.0	1144.8	1080.5
9591.3	50°	8162.6	5794.3	1521.9	1308.5	1253.6	1227.7	1196.6	1156.2	1087.8	1032.9
10204.6	52.5°	8652.7	6100.0	1598.5	1253.6	1171.7	1187.3	1167.6	1120.9	1053.6	997.7
10784.7	55°	9116.8	6405.6	1628.6	1177.9	1095.0	1152.0	1140.6	1054.6	973.8	928.3
11391.8	57.5°	9622.3	6773.4	1595.4	1081.6	1032.9	1111.6	1068.1	972.8	926.2	892.0
12182.3	60°	10322.7	7350.4	1524.0	962.4	973.8	1051.5	976.9	937.6	886.8	848.5
13367.5	62.5°	11486.1	8426.8	1409.0	844.3	904.4	962.4	933.4	894.1	842.3	805.0
15393.9	65°	13205.9	9922.8	1192.4	752.1	826.7	875.4	886.8	847.4	793.6	754.2
17169.6	67.5°	14656.3	10861.4	902.4	675.5	747.0	805.0	837.1	798.8	741.8	703.4
17585.0	70°	14576.5	10179.7	688.9	599.8	676.5	735.6	777.0	747.0	685.8	649.6
15973.0	72.5°	12946.9	8515.9	557.4	523.2	605.0	663.0	712.8	690.0	627.8	592.6
11701.6	75°	9511.5	6045.0	445.5	445.5	515.9	587.4	642.3	627.8	570.8	546.0
4912.7	77.5°	4009.3	2536.1	349.1	369.9	428.9	504.5	572.9	578.1	528.4	559.4
1299.1	80°	1066.0	699.3	266.3	291.1	336.7	416.5	498.3	496.2	442.4	413.4
482.8	82.5°	406.1	275.6	189.6	205.1	243.5	319.1	394.7	407.1	353.3	305.6
189.6	85°	156.4	118.1	117.1	123.3	141.9	211.3	298.4	308.7	266.3	225.8
52.8	87.5°	40.4	35.2	43.5	41.4	65.3	112.9	170.9	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>
2862.5
2730.9
2530.9
2348.6
2238.8
2207.7
2232.6
2267.8
2267.8
2216.0
2119.7
1993.3
1847.2
1685.6
1543.6
1479.4
1385.1
1256.7
1151.0
1080.5
1028.7
998.7
924.1
888.9
846.4
805.0
756.3
704.5
652.7
592.6
538.7
507.6
384.4
305.6
233.1
134.7
0.0

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