

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: P940739

Luminaire Tested: **GALN-SB3D-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21867 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

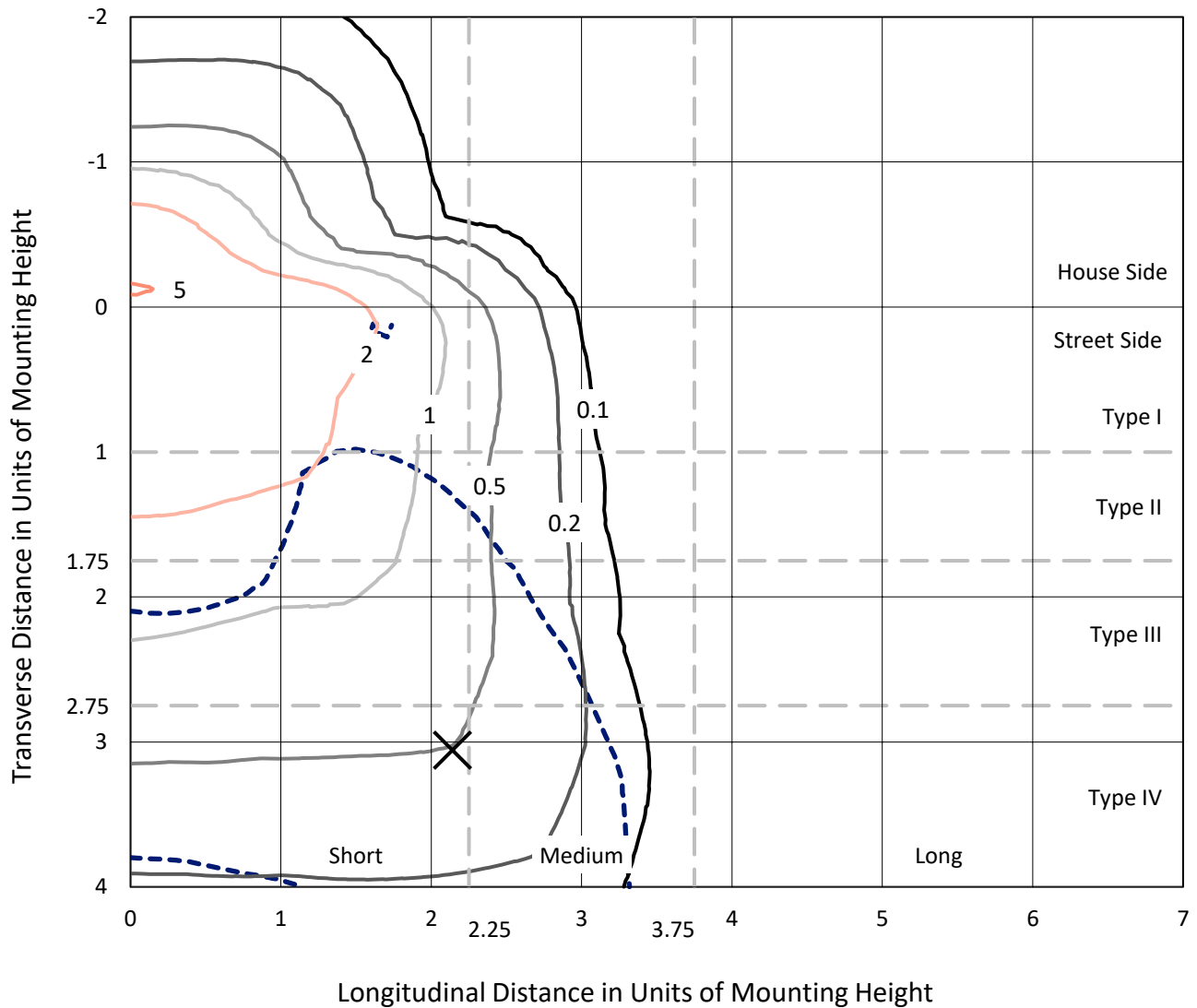
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

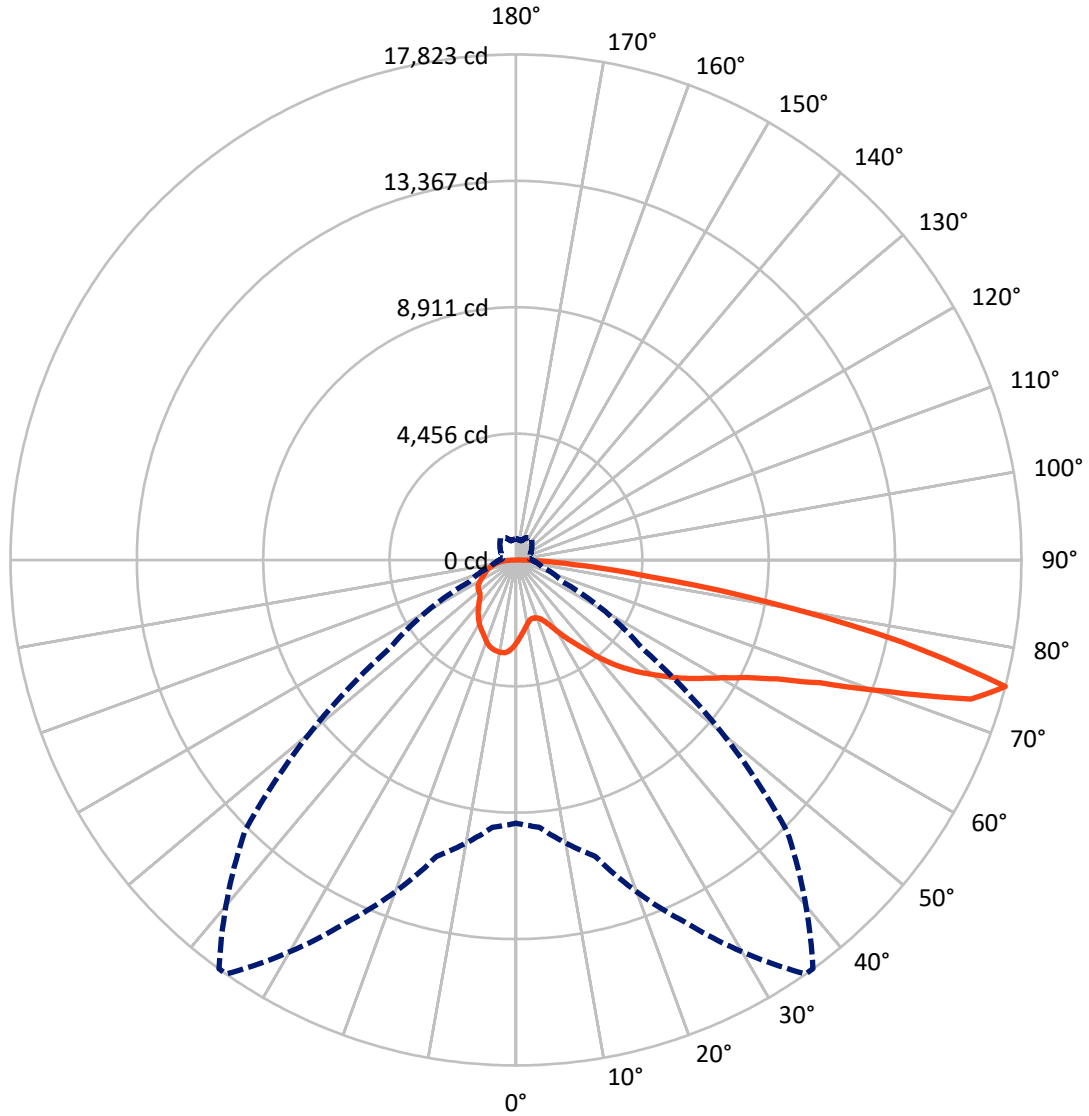
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5203.8	0.0	5203.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16663.2	0.0	16663.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	21867.0	0.0	21867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	1.3
10°-20°	795.8	3.6
20°-30°	1336.3	6.1
30°-40°	2076.8	9.5
40°-50°	3082.6	14.1
50°-60°	4255.7	19.5
60°-70°	5163.2	23.6
70°-80°	4267.0	19.5
80°-90°	613.7	2.8
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°	21867.0	100.0
0°-180°	21867.0	100.0

Coefficient of Utilization



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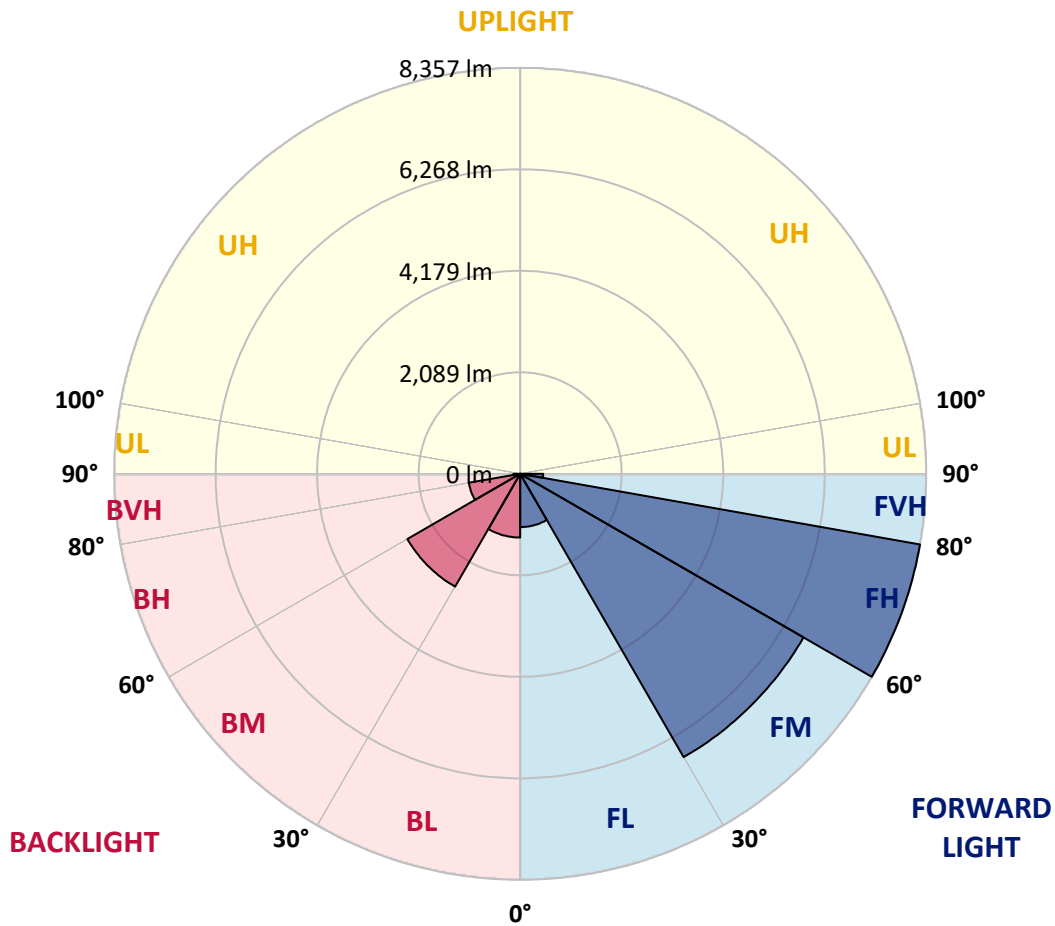
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.6	5.0			
FM (30°-60°)	6733.9	30.8			
FH (60°-80°)	8357.2	38.2			G4/12000
FVH (80°-90°)	475.5	2.2			G3/500
BL (0°-30°)	1311.4	6.0	B3/2500		
BM (30°-60°)	2681.3	12.3	B3/5000		
BH (60°-80°)	1072.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	138.2	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2.5°	2687.0	2703.5	2710.6	2707.1	2724.8	2722.4	2747.2	2778.0	2820.5	2861.9
5°	2480.1	2497.8	2513.2	2527.4	2561.7	2572.3	2611.3	2670.4	2748.4	2827.6
7.5°	2287.4	2302.8	2326.4	2352.4	2410.3	2421.0	2486.0	2578.2	2687.0	2802.8
10°	2130.2	2145.5	2170.4	2199.9	2272.0	2285.0	2367.8	2490.7	2632.6	2779.2
12.5°	2062.8	2067.5	2081.7	2111.3	2173.9	2182.2	2273.2	2413.9	2579.4	2761.4
15°	2059.3	2068.7	2069.9	2085.3	2137.3	2140.8	2224.7	2364.2	2546.3	2757.9
17.5°	2094.7	2101.8	2091.2	2100.6	2144.4	2150.3	2216.5	2340.6	2535.6	2773.3
20°	2189.3	2195.2	2163.3	2150.3	2182.2	2186.9	2251.9	2356.0	2546.3	2805.2
22.5°	2390.2	2393.8	2315.8	2262.6	2264.9	2267.3	2324.0	2418.6	2587.7	2863.1
25°	2703.5	2701.1	2577.0	2474.2	2415.1	2402.1	2439.9	2520.3	2657.4	2939.9
27.5°	3070.0	3052.2	2928.1	2774.4	2645.6	2626.7	2618.4	2652.7	2756.7	3041.6
30°	3483.7	3467.2	3333.6	3132.6	2954.1	2923.4	2845.4	2827.6	2904.5	3179.9
32.5°	3937.6	3927.0	3767.4	3523.9	3285.1	3249.6	3118.4	3071.1	3131.4	3389.1
35°	4318.3	4308.8	4176.4	3925.8	3633.8	3590.1	3456.5	3403.3	3434.1	3657.5
37.5°	4662.3	4657.6	4544.1	4346.7	4045.2	3992.0	3841.9	3824.2	3818.2	4010.9
40°	4981.5	4969.6	4851.4	4747.4	4524.0	4475.5	4343.1	4327.7	4282.8	4446.0
42.5°	5334.9	5304.2	5132.8	5084.3	5024.0	4983.8	4904.6	4907.0	4807.7	4936.5
45°	5623.3	5605.6	5429.5	5401.1	5466.1	5449.6	5518.1	5535.9	5343.2	5450.8
47.5°	5933.1	5916.5	5767.6	5747.5	5923.6	5928.3	6170.7	6176.6	5865.7	5985.1
50°	6314.9	6291.2	6143.5	6168.3	6365.7	6383.4	6826.7	6786.6	6346.8	6527.7
52.5°	6566.7	6580.9	6548.9	6589.1	6858.7	6875.2	7472.2	7369.3	6823.2	7063.2
55°	6752.3	6780.6	6879.9	6972.1	7378.8	7395.3	8081.0	7923.8	7218.0	7559.7
57.5°	6991.1	6950.9	7136.5	7316.1	7872.9	7916.7	8673.2	8458.1	7567.9	7987.6
60°	7333.9	7305.5	7449.7	7715.7	8426.2	8495.9	9299.7	8939.2	7824.5	8326.9
62.5°	8029.0	7958.0	7980.5	8215.7	9123.6	9215.8	10006.6	9358.8	7952.1	8459.3
65°	9068.0	8946.3	8832.8	8995.9	10105.9	10197.0	10804.6	9688.7	7904.8	8202.7
67.5°	10376.6	10256.1	10116.6	10270.3	11552.9	11625.0	11789.3	9874.2	7532.5	7214.5
70°	11455.9	11411.0	11577.7	12210.1	13863.9	13866.3	13051.8	9720.6	6512.3	5115.0
72.5°	11312.9	11285.7	12164.0	14119.2	16776.6	16714.0	14246.9	8557.4	4386.8	2307.5
75°	9280.8	9457.0	10817.6	14085.0	17822.8	17814.5	13515.2	5440.1	1814.6	956.3
77.5°	4976.7	5255.7	7023.0	10399.1	13913.6	14122.8	9501.9	1903.2	779.0	612.3
80°	1623.1	1866.6	2799.3	5294.7	9040.9	9001.8	4072.4	747.1	533.1	433.8
82.5°	689.2	717.5	1250.7	2500.2	4639.8	4567.7	1296.8	429.1	374.7	296.7
85°	269.5	301.4	552.1	1156.1	2009.6	1965.9	468.1	212.8	240.0	193.9
87.5°	88.7	107.6	197.4	396.0	625.3	602.9	114.7	73.3	104.0	88.7
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°
2913.9	0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2922.2	2.5°	2938.8	2957.7	2980.1	3013.2	3041.6	3065.2	3090.1	3105.4	3111.3	3129.1
2926.9	5°	2960.0	3001.4	3057.0	3111.3	3164.5	3196.5	3224.8	3239.0	3252.0	3261.5
2939.9	7.5°	2995.5	3048.7	3136.2	3207.1	3252.0	3278.0	3296.9	3292.2	3296.9	3299.3
2954.1	10°	3026.2	3100.7	3204.7	3272.1	3306.4	3307.6	3302.8	3286.3	3278.0	3279.2
2975.4	12.5°	3062.9	3145.6	3257.9	3314.7	3324.1	3298.1	3278.0	3249.6	3239.0	3234.3
3007.3	15°	3112.5	3207.1	3315.8	3337.1	3313.5	3280.4	3246.1	3200.0	3176.4	3157.4
3061.7	17.5°	3172.8	3276.8	3360.8	3345.4	3294.6	3240.2	3184.6	3114.9	3066.4	3046.3
3136.2	20°	3256.7	3350.1	3395.0	3327.7	3250.8	3168.1	3073.5	2988.4	2943.5	2923.4
3230.7	22.5°	3358.4	3448.2	3428.1	3296.9	3188.2	3055.8	2937.6	2874.9	2852.5	2838.3
3352.5	25°	3480.2	3557.0	3451.8	3252.0	3085.3	2906.8	2815.8	2795.7	2785.1	2774.4
3501.4	27.5°	3638.6	3679.9	3469.5	3185.8	2924.6	2748.4	2715.3	2718.9	2715.3	2697.6
3708.3	30°	3847.8	3839.5	3486.1	3078.2	2740.2	2605.4	2607.8	2623.1	2625.5	2613.7
3996.7	32.5°	4123.2	4039.3	3494.3	2938.8	2564.0	2480.1	2482.5	2499.0	2510.8	2490.7
4373.8	35°	4456.6	4272.2	3481.3	2763.8	2428.1	2360.7	2343.0	2347.7	2351.2	2332.3
4831.3	37.5°	4845.5	4533.4	3423.4	2569.9	2315.8	2243.7	2205.8	2173.9	2155.0	2137.3
5349.1	40°	5272.3	4818.3	3317.0	2380.8	2190.5	2119.5	2062.8	2002.5	1938.7	1915.0
5897.6	42.5°	5719.1	5111.5	3188.2	2199.9	2046.2	1988.3	1928.0	1840.6	1744.8	1696.3
6467.4	45°	6182.5	5411.7	3061.7	2021.4	1898.5	1873.7	1803.9	1698.7	1594.7	1533.2
7038.3	47.5°	6636.4	5695.5	2876.1	1841.7	1760.2	1787.4	1733.0	1636.1	1520.2	1423.3
7604.6	50°	7070.3	5961.4	2572.3	1659.7	1647.9	1761.4	1709.3	1569.9	1437.5	1313.3
8160.2	52.5°	7500.6	6176.6	2183.4	1494.2	1587.6	1754.3	1678.6	1524.9	1363.0	1233.0
8682.7	55°	7865.8	6287.7	1808.6	1352.3	1500.1	1694.0	1642.0	1471.7	1257.8	1119.5
9040.9	57.5°	8073.9	6197.9	1496.6	1212.9	1379.5	1594.7	1579.3	1358.3	1132.5	1026.1
9110.6	60°	7984.0	5833.8	1241.2	1091.1	1264.9	1487.1	1470.6	1246.0	1036.7	936.2
8737.0	62.5°	7488.7	5139.9	1039.1	984.7	1160.8	1377.2	1361.8	1159.7	963.4	866.5
7745.2	65°	6491.0	4181.2	881.9	896.0	1055.6	1244.8	1267.2	1087.6	905.5	810.9
5992.2	67.5°	4950.7	3028.6	758.9	819.2	952.8	1114.7	1179.8	1035.5	857.0	767.2
3467.2	70°	2821.7	1720.0	654.9	744.7	861.8	994.2	1112.4	994.2	805.0	730.6
1299.1	72.5°	1069.8	789.7	566.2	670.3	774.3	892.5	1037.9	929.1	744.7	689.2
671.4	75°	571.0	481.1	476.4	582.8	673.8	793.2	944.5	865.3	699.8	728.2
464.6	77.5°	388.9	340.5	398.4	498.9	563.9	683.3	845.2	768.4	606.4	604.1
321.5	80°	269.5	241.2	323.9	401.9	436.2	574.5	737.6	659.6	494.1	461.0
198.6	82.5°	162.0	157.2	242.3	300.3	308.5	443.3	611.2	553.2	404.3	352.3
118.2	85°	88.7	93.4	154.9	176.1	179.7	309.7	478.8	427.9	310.9	261.2
42.6	87.5°	24.8	31.9	56.7	69.7	86.3	160.8	284.9	254.2	156.0	108.8
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>
2913.9
3127.9
3263.8
3302.8
3281.6
3231.9
3163.4
3047.5
2921.0
2840.6
2774.4
2701.1
2619.6
2500.2
2345.3
2149.1
1925.7
1702.3
1528.5
1412.6
1302.7
1218.8
1107.6
1011.9
922.1
851.1
795.6
753.0
721.1
679.7
751.8
556.8
440.9
354.6
263.6
108.8
0.0

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