

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: P941769

Luminaire Tested: **GALN-SB5B-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941769
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-SB5B-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19558 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

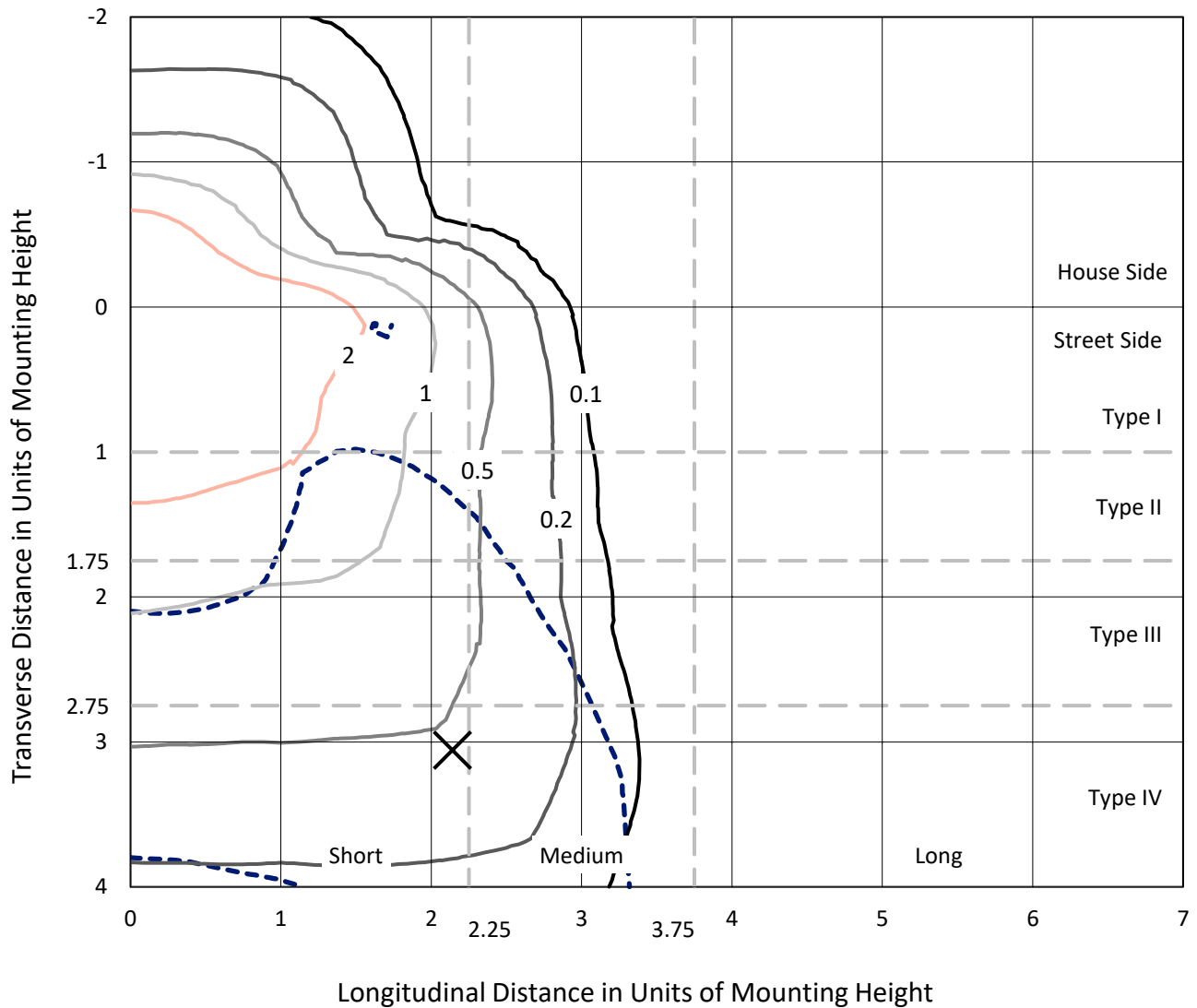
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

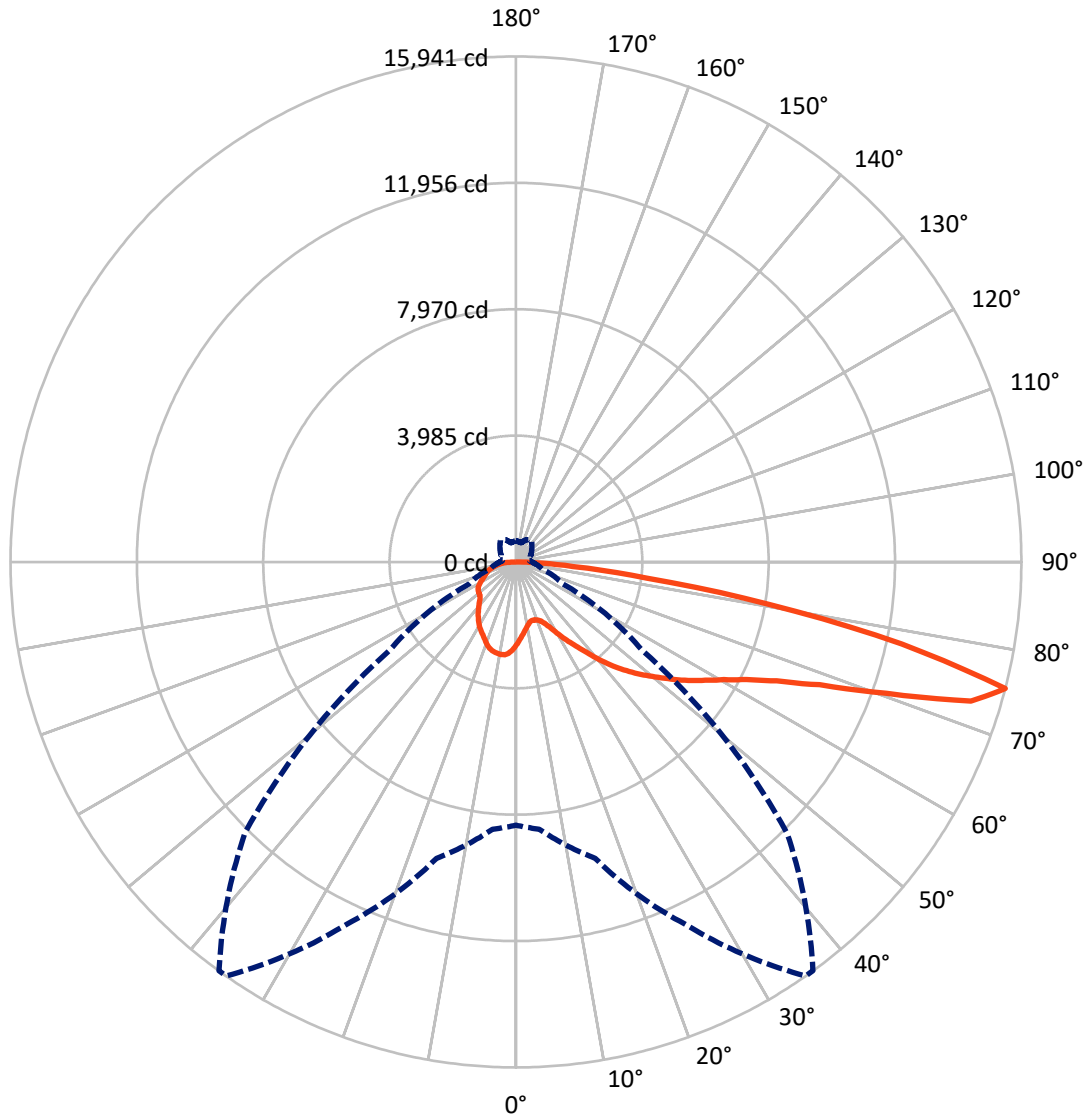
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	4654.3	0.0	4654.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14903.7	0.0	14903.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	19558.0	0.0	19558.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	1.3
10°-20°	711.8	3.6
20°-30°	1195.2	6.1
30°-40°	1857.6	9.5
40°-50°	2757.1	14.1
50°-60°	3806.3	19.5
60°-70°	4618.0	23.6
70°-80°	3816.4	19.5
80°-90°	548.9	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°	19558.0	100.0
0°-180°	19558.0	100.0



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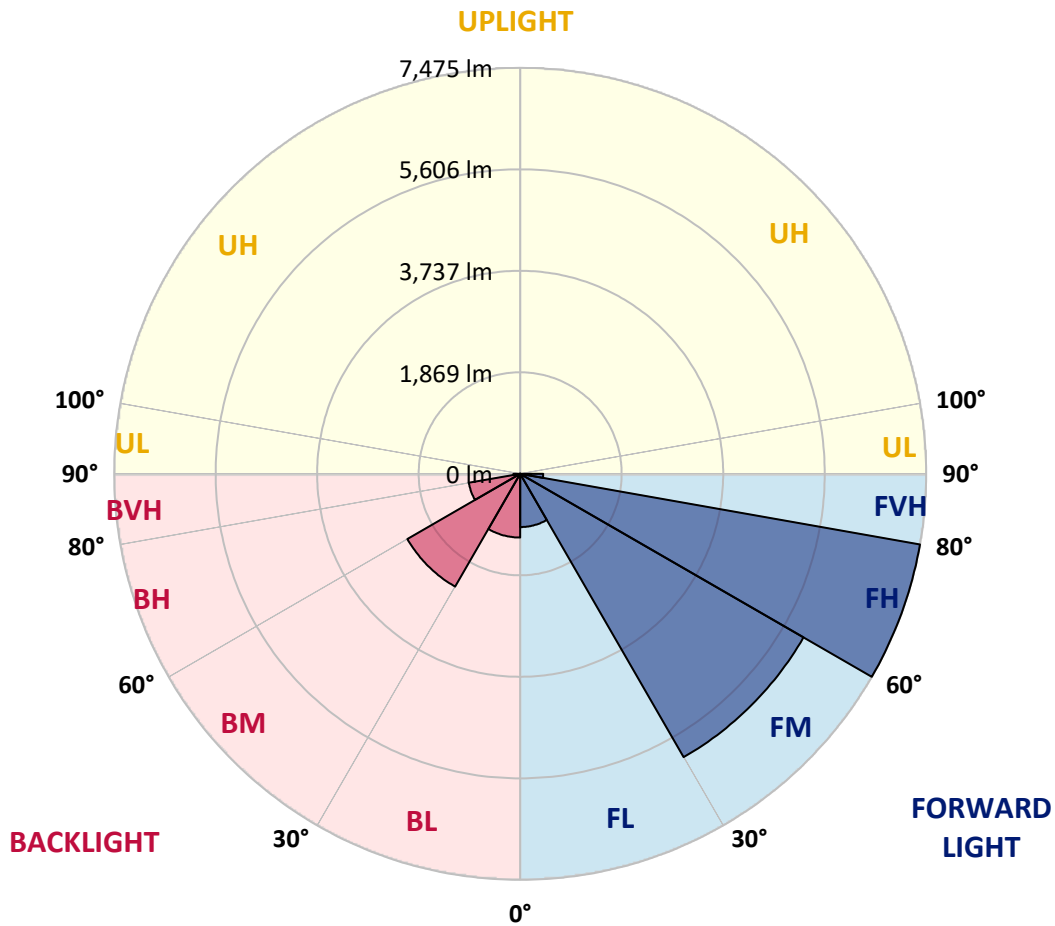
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.8	5.0			
FM (30°-60°)	6022.8	30.8			
FH (60°-80°)	7474.8	38.2			G3/7500
FVH (80°-90°)	425.3	2.2			G3/500
BL (0°-30°)	1173.0	6.0	B3/2500		
BM (30°-60°)	2398.2	12.3	B2/2500		
BH (60°-80°)	959.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	123.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2
2.5°	2403.2	2418.0	2424.4	2421.2	2437.1	2435.0	2457.2	2484.6	2522.7	2559.7
5°	2218.2	2234.1	2247.8	2260.5	2291.2	2300.7	2335.6	2388.4	2458.2	2529.1
7.5°	2045.9	2059.6	2080.8	2104.0	2155.8	2165.3	2223.5	2306.0	2403.2	2506.8
10°	1905.2	1919.0	1941.2	1967.6	2032.1	2043.8	2117.8	2227.7	2354.6	2485.7
12.5°	1845.0	1849.2	1861.9	1888.3	1944.4	1951.8	2033.2	2159.0	2307.0	2469.8
15°	1841.8	1850.3	1851.3	1865.1	1911.6	1914.8	1989.8	2114.6	2277.4	2466.7
17.5°	1873.5	1879.9	1870.4	1878.8	1917.9	1923.2	1982.4	2093.4	2267.9	2480.4
20°	1958.1	1963.4	1934.9	1923.2	1951.8	1956.0	2014.1	2107.2	2277.4	2509.0
22.5°	2137.9	2141.0	2071.2	2023.7	2025.8	2027.9	2078.6	2163.2	2314.4	2560.8
25°	2418.0	2415.9	2304.9	2212.9	2160.1	2148.4	2182.3	2254.2	2376.8	2629.5
27.5°	2745.8	2729.9	2618.9	2481.5	2366.2	2349.3	2341.9	2372.6	2465.6	2720.4
30°	3115.9	3101.1	2981.6	2801.8	2642.2	2614.7	2544.9	2529.1	2597.8	2844.1
32.5°	3521.9	3512.3	3369.6	3151.8	2938.2	2906.5	2789.1	2746.9	2800.8	3031.3
35°	3862.3	3853.8	3735.4	3511.3	3250.1	3211.0	3091.5	3044.0	3071.4	3271.3
37.5°	4170.0	4165.7	4064.2	3887.7	3618.1	3570.5	3436.2	3420.4	3415.1	3587.4
40°	4455.4	4444.9	4339.1	4246.1	4046.3	4002.9	3884.5	3870.8	3830.6	3976.5
42.5°	4771.6	4744.1	4590.8	4547.4	4493.5	4457.6	4386.7	4388.8	4300.0	4415.3
45°	5029.6	5013.7	4856.2	4830.8	4888.9	4874.1	4935.5	4951.3	4779.0	4875.2
47.5°	5306.6	5291.8	5158.5	5140.6	5298.1	5302.3	5519.1	5524.4	5246.3	5353.1
50°	5648.1	5626.9	5494.8	5517.0	5693.5	5709.4	6105.9	6069.9	5676.6	5838.4
52.5°	5873.3	5886.0	5857.4	5893.4	6134.4	6149.2	6683.2	6591.2	6102.7	6317.3
55°	6039.3	6064.7	6153.5	6235.9	6599.6	6614.4	7227.7	7087.1	6455.9	6761.4
57.5°	6252.9	6216.9	6382.9	6543.6	7041.6	7080.7	7757.4	7565.0	6768.8	7144.2
60°	6559.5	6534.1	6663.1	6901.0	7536.4	7598.8	8317.8	7995.3	6998.2	7447.6
62.5°	7181.2	7117.7	7137.8	7348.2	8160.2	8242.7	8950.0	8370.6	7112.4	7566.0
65°	8110.5	8001.6	7900.1	8046.0	9038.8	9120.2	9663.7	8665.6	7070.1	7336.6
67.5°	9280.9	9173.1	9048.3	9185.8	10333.0	10397.5	10544.4	8831.6	6737.1	6452.7
70°	10246.3	10206.1	10355.2	10920.8	12400.0	12402.1	11673.6	8694.1	5824.6	4574.9
72.5°	10118.3	10094.0	10879.6	12628.3	15005.2	14949.1	12742.5	7653.8	3923.6	2063.8
75°	8300.8	8458.4	9675.3	12597.7	15940.9	15933.5	12088.1	4865.7	1623.0	855.4
77.5°	4451.2	4700.7	6281.4	9301.0	12444.4	12631.5	8498.5	1702.2	696.8	547.7
80°	1451.7	1669.5	2503.7	4735.6	8086.2	8051.3	3642.4	668.2	476.8	388.0
82.5°	616.4	641.8	1118.6	2236.2	4149.9	4085.4	1159.9	383.8	335.2	265.4
85°	241.1	269.6	493.8	1034.0	1797.4	1758.3	418.7	190.3	214.6	173.4
87.5°	79.3	96.2	176.6	354.2	559.3	539.2	102.6	65.6	93.0	79.3
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°
2606.2	0°	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2
2613.6	2.5°	2628.4	2645.4	2665.4	2695.0	2720.4	2741.6	2763.8	2777.5	2782.8	2798.7
2617.9	5°	2647.5	2684.5	2734.2	2782.8	2830.4	2858.9	2884.3	2897.0	2908.6	2917.1
2629.5	7.5°	2679.2	2726.8	2805.0	2868.4	2908.6	2931.9	2948.8	2944.6	2948.8	2950.9
2642.2	10°	2706.7	2773.3	2866.3	2926.6	2957.3	2958.3	2954.1	2939.3	2931.9	2932.9
2661.2	12.5°	2739.5	2813.5	2913.9	2964.7	2973.1	2949.9	2931.9	2906.5	2897.0	2892.8
2689.8	15°	2783.9	2868.4	2965.7	2984.7	2963.6	2934.0	2903.3	2862.1	2841.0	2824.0
2738.4	17.5°	2837.8	2930.8	3005.9	2992.1	2946.7	2898.0	2848.4	2786.0	2742.6	2724.7
2805.0	20°	2912.9	2996.4	3036.6	2976.3	2907.6	2833.6	2749.0	2672.8	2632.7	2614.7
2889.6	22.5°	3003.8	3084.1	3066.2	2948.8	2851.5	2733.1	2627.4	2571.3	2551.3	2538.6
2998.5	25°	3112.7	3181.4	3087.3	2908.6	2759.5	2599.9	2518.5	2500.5	2491.0	2481.5
3131.7	27.5°	3254.4	3291.4	3103.2	2849.4	2615.8	2458.2	2428.6	2431.8	2428.6	2412.8
3316.7	30°	3441.5	3434.1	3118.0	2753.2	2450.8	2330.3	2332.4	2346.1	2348.3	2337.7
3574.7	32.5°	3687.9	3612.8	3125.4	2628.4	2293.3	2218.2	2220.3	2235.1	2245.7	2227.7
3912.0	35°	3986.0	3821.1	3113.7	2472.0	2171.7	2111.4	2095.6	2099.8	2103.0	2086.0
4321.2	37.5°	4333.9	4054.7	3061.9	2298.6	2071.2	2006.7	1972.9	1944.4	1927.5	1911.6
4784.3	40°	4715.5	4309.5	2966.8	2129.4	1959.2	1895.7	1845.0	1791.1	1734.0	1712.8
5274.9	42.5°	5115.2	4571.7	2851.5	1967.6	1830.2	1778.4	1724.5	1646.2	1560.6	1517.2
5784.5	45°	5529.7	4840.3	2738.4	1808.0	1698.0	1675.8	1613.4	1519.3	1426.3	1371.3
6295.1	47.5°	5935.7	5094.1	2572.4	1647.3	1574.3	1598.6	1550.0	1463.3	1359.7	1273.0
6801.6	50°	6323.7	5331.9	2300.7	1484.4	1473.9	1575.4	1528.9	1404.1	1285.7	1174.7
7298.5	52.5°	6708.5	5524.4	1952.8	1336.4	1419.9	1569.0	1501.4	1363.9	1219.1	1102.8
7765.8	55°	7035.3	5623.8	1617.7	1209.5	1341.7	1515.1	1468.6	1316.3	1125.0	1001.3
8086.2	57.5°	7221.3	5543.4	1338.5	1084.8	1233.9	1426.3	1412.5	1214.8	1012.9	917.7
8148.6	60°	7141.0	5217.8	1110.2	975.9	1131.3	1330.1	1315.3	1114.4	927.2	837.4
7814.5	62.5°	6698.0	4597.1	929.4	880.7	1038.3	1231.8	1218.0	1037.2	861.7	775.0
6927.4	65°	5805.6	3739.7	788.7	801.4	944.2	1113.3	1133.4	972.7	809.9	725.3
5359.4	67.5°	4428.0	2708.8	678.8	732.7	852.2	997.0	1055.2	926.2	766.5	686.2
3101.1	70°	2523.8	1538.4	585.7	666.1	770.8	889.2	994.9	889.2	720.0	653.4
1162.0	72.5°	956.9	706.3	506.4	599.5	692.5	798.3	928.3	831.0	666.1	616.4
600.5	75°	510.7	430.3	426.1	521.2	602.7	709.4	844.8	773.9	625.9	651.3
415.5	77.5°	347.9	304.5	356.3	446.2	504.3	611.1	756.0	687.2	542.4	540.3
287.6	80°	241.1	215.7	289.7	359.5	390.1	513.8	659.8	590.0	441.9	412.3
177.6	82.5°	144.8	140.6	216.7	268.6	276.0	396.5	546.6	494.8	361.6	315.1
105.7	85°	79.3	83.5	138.5	157.5	160.7	277.0	428.2	382.7	278.1	233.7
38.1	87.5°	22.2	28.5	50.8	62.4	77.2	143.8	254.8	227.3	139.6	97.3
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>
2606.2
2797.6
2919.2
2954.1
2935.1
2890.6
2829.3
2725.7
2612.6
2540.7
2481.5
2415.9
2343.0
2236.2
2097.7
1922.2
1722.3
1522.5
1367.1
1263.5
1165.1
1090.1
990.7
905.0
824.7
761.3
711.6
673.5
645.0
607.9
672.4
498.0
394.4
317.2
235.8
97.3
0.0

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