

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: P940709

Luminaire Tested: **GALN-SB3D-927-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940709  
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-927-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

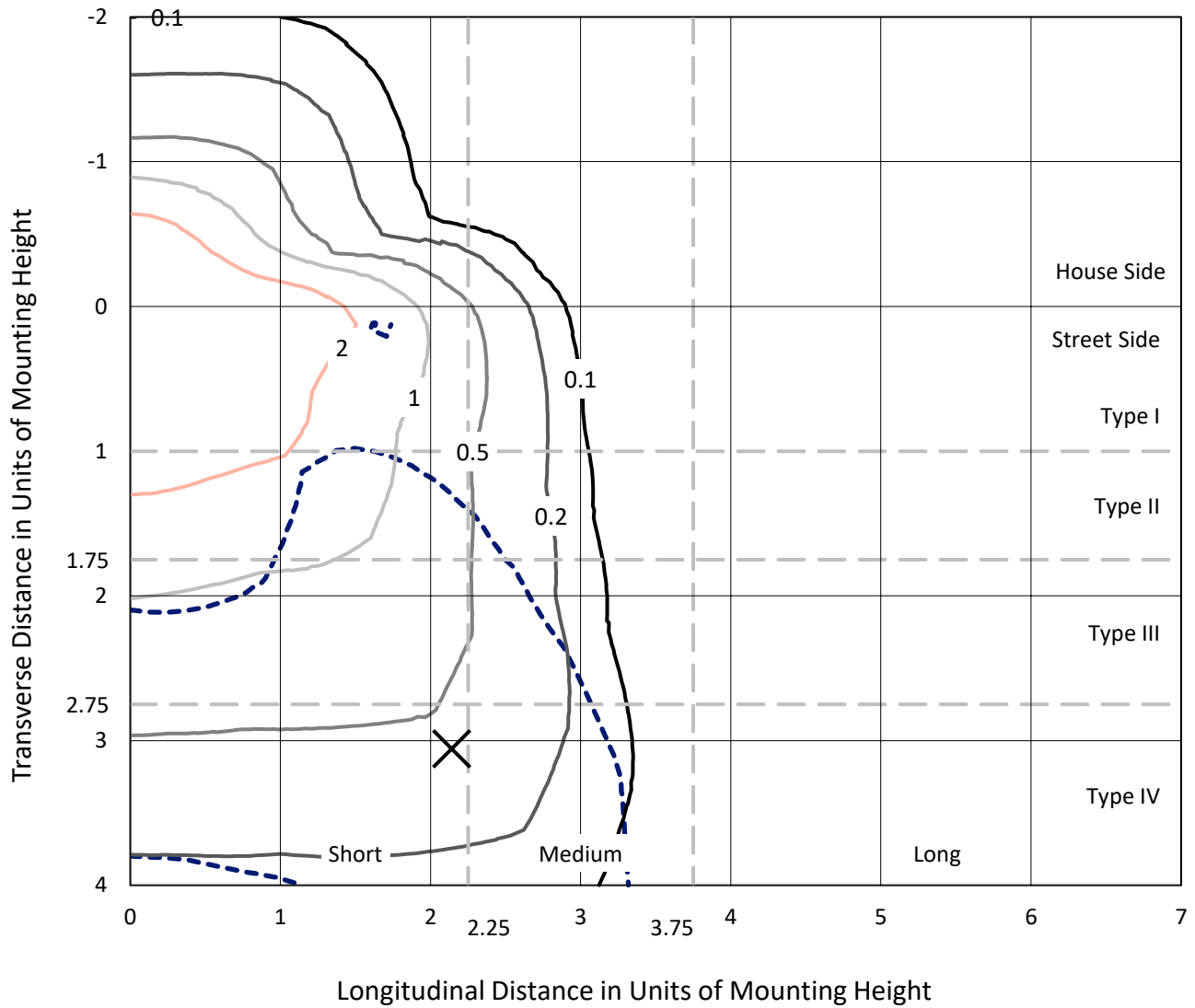
Lumens per Lamp: N/A  
Luminaire Lumens: 18369 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

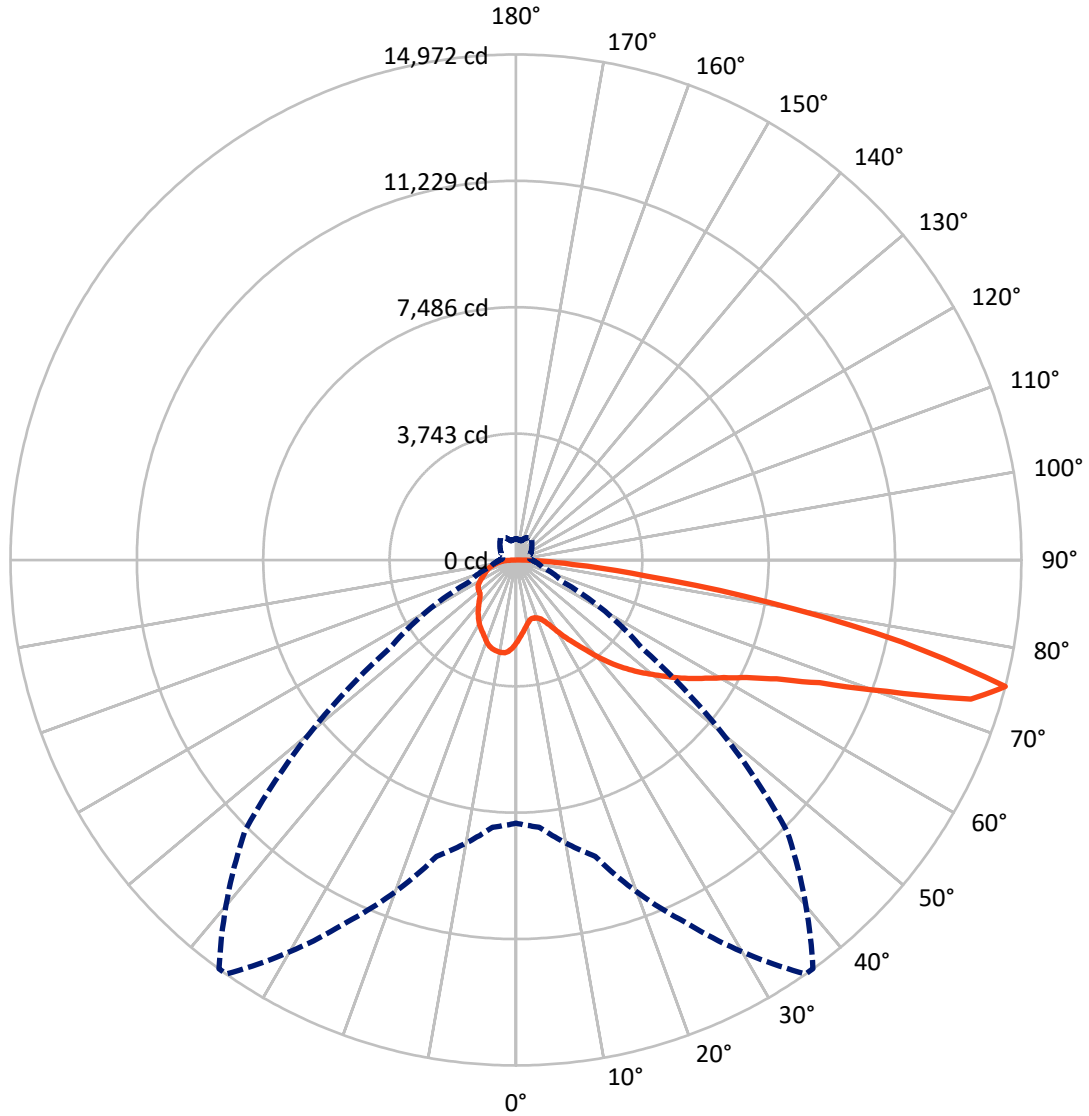
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
<b>House Side</b>	Lumens	4371.4	0.0	4371.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	13997.6	0.0	13997.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	18369.0	0.0	18369.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.8	1.3
10°-20°	668.5	3.6
20°-30°	1122.6	6.1
30°-40°	1744.6	9.5
40°-50°	2589.5	14.1
50°-60°	3574.9	19.5
60°-70°	4337.2	23.6
70°-80°	3584.4	19.5
80°-90°	515.5	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°	18369.0	100.0
0°-180°	18369.0	100.0

**Coefficient of Utilization**



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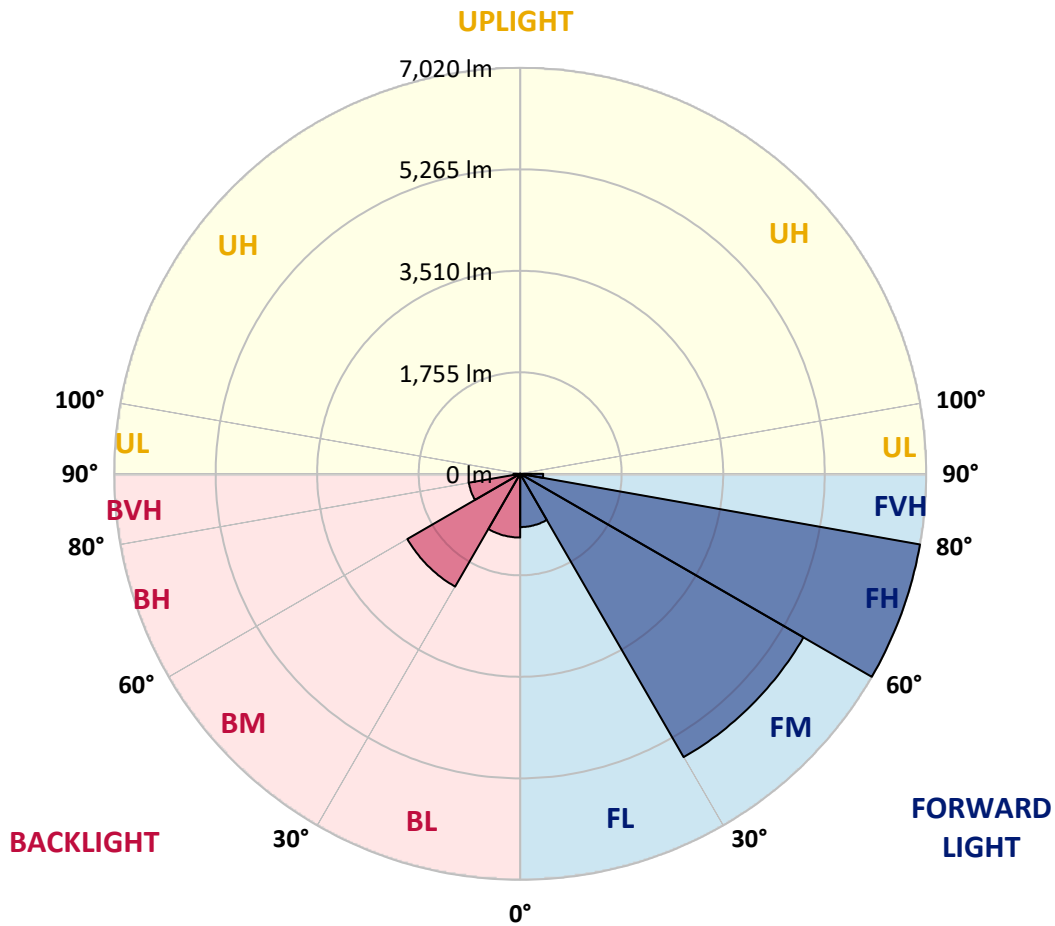
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.2	5.0			
FM (30°-60°)	5656.7	30.8			
FH (60°-80°)	7020.4	38.2			G3/7500
FVH (80°-90°)	399.5	2.2			G3/500
BL (0°-30°)	1101.6	6.0	B3/2500		
BM (30°-60°)	2252.4	12.3	B2/2500		
BH (60°-80°)	901.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	116.1	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°	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8
2.5°	2257.1	2271.0	2277.0	2274.0	2288.9	2286.9	2307.8	2333.6	2369.3	2404.1
5°	2083.4	2098.3	2111.2	2123.1	2151.9	2160.8	2193.6	2243.2	2308.8	2375.3
7.5°	1921.5	1934.4	1954.3	1976.1	2024.8	2033.7	2088.3	2165.8	2257.1	2354.4
10°	1789.4	1802.3	1823.2	1848.0	1908.6	1919.5	1989.0	2092.3	2211.5	2334.6
12.5°	1732.8	1736.8	1748.7	1773.5	1826.2	1833.1	1909.6	2027.7	2166.8	2319.7
15°	1729.8	1737.8	1738.8	1751.7	1795.4	1798.4	1868.9	1986.0	2139.0	2316.7
17.5°	1759.6	1765.6	1756.7	1764.6	1801.3	1806.3	1861.9	1966.2	2130.0	2329.6
20°	1839.1	1844.0	1817.2	1806.3	1833.1	1837.1	1891.7	1979.1	2139.0	2356.4
22.5°	2007.9	2010.9	1945.3	1900.6	1902.6	1904.6	1952.3	2031.7	2173.7	2405.1
25°	2271.0	2269.0	2164.8	2078.4	2028.7	2017.8	2049.6	2117.1	2232.3	2469.6
27.5°	2578.9	2564.0	2459.7	2330.6	2222.4	2206.5	2199.5	2228.3	2315.7	2555.0
30°	2926.4	2912.5	2800.3	2631.5	2481.6	2455.7	2390.2	2375.3	2439.8	2671.2
32.5°	3307.7	3298.8	3164.8	2960.2	2759.6	2729.8	2619.6	2579.9	2630.5	2847.0
35°	3627.5	3619.6	3508.3	3297.8	3052.5	3015.8	2903.6	2858.9	2884.7	3072.4
37.5°	3916.5	3912.5	3817.2	3651.3	3398.1	3353.4	3227.3	3212.4	3207.5	3369.3
40°	4184.6	4174.7	4075.4	3988.0	3800.3	3759.6	3648.4	3635.4	3597.7	3734.7
42.5°	4481.5	4455.7	4311.7	4271.0	4220.3	4186.6	4120.0	4122.0	4038.6	4146.9
45°	4723.8	4708.9	4560.9	4537.1	4591.7	4577.8	4635.4	4650.3	4488.4	4578.8
47.5°	4984.0	4970.1	4844.9	4828.1	4976.0	4980.0	5183.6	5188.5	4927.4	5027.7
50°	5304.7	5284.9	5160.7	5181.6	5347.4	5362.3	5734.7	5700.9	5331.5	5483.5
52.5°	5516.2	5528.1	5501.3	5535.1	5761.5	5775.4	6276.9	6190.5	5731.7	5933.3
55°	5672.1	5696.0	5779.4	5856.8	6198.4	6212.3	6788.3	6656.2	6063.4	6350.4
57.5°	5872.7	5839.0	5994.9	6145.8	6613.5	6650.3	7285.8	7105.1	6357.3	6709.8
60°	6160.7	6136.9	6258.0	6481.4	7078.2	7136.8	7812.1	7509.2	6572.8	6994.8
62.5°	6744.6	6685.0	6703.9	6901.5	7664.1	7741.6	8405.9	7861.7	6680.0	7106.0
65°	7617.5	7515.2	7419.8	7556.9	8489.3	8565.8	9076.2	8138.8	6640.3	6890.6
67.5°	8716.7	8615.4	8498.3	8627.4	9704.8	9765.4	9903.4	8294.7	6327.5	6060.4
70°	9623.4	9585.6	9725.6	10256.9	11646.1	11648.1	10963.9	8165.6	5470.5	4296.8
72.5°	9503.2	9480.4	10218.2	11860.6	14092.9	14040.3	11967.9	7188.5	3685.1	1938.4
75°	7796.2	7944.2	9087.1	11831.8	14971.8	14964.8	11353.2	4569.9	1524.3	803.4
77.5°	4180.6	4415.0	5899.5	8735.6	11687.8	11863.6	7981.9	1598.8	654.4	514.4
80°	1363.4	1568.0	2351.5	4447.7	7594.6	7561.8	3421.0	627.6	447.9	364.4
82.5°	578.9	602.8	1050.6	2100.2	3897.6	3837.0	1089.3	360.5	314.8	249.2
85°	226.4	253.2	463.7	971.2	1688.1	1651.4	393.2	178.7	201.6	162.9
87.5°	74.5	90.4	165.8	332.7	525.3	506.4	96.3	61.6	87.4	74.5
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°
2447.8	0°	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8
2454.7	2.5°	2468.6	2484.5	2503.4	2531.2	2555.0	2574.9	2595.8	2608.7	2613.6	2628.5
2458.7	5°	2486.5	2521.3	2567.9	2613.6	2658.3	2685.1	2709.0	2720.9	2731.8	2739.7
2469.6	7.5°	2516.3	2561.0	2634.5	2694.1	2731.8	2753.6	2769.5	2765.6	2769.5	2771.5
2481.6	10°	2542.1	2604.7	2692.1	2748.7	2777.5	2778.5	2774.5	2760.6	2753.6	2754.6
2499.4	12.5°	2572.9	2642.4	2736.8	2784.4	2792.4	2770.5	2753.6	2729.8	2720.9	2716.9
2526.2	15°	2614.6	2694.1	2785.4	2803.3	2783.4	2755.6	2726.8	2688.1	2668.2	2652.4
2571.9	17.5°	2665.3	2752.7	2823.2	2810.2	2767.5	2721.9	2675.2	2616.6	2575.9	2559.0
2634.5	20°	2735.8	2814.2	2852.0	2795.4	2730.8	2661.3	2581.9	2510.4	2472.6	2455.7
2713.9	22.5°	2821.2	2896.6	2879.8	2769.5	2678.2	2567.0	2467.7	2415.0	2396.2	2384.2
2816.2	25°	2923.4	2988.0	2899.6	2731.8	2591.8	2441.8	2365.4	2348.5	2339.6	2330.6
2941.3	27.5°	3056.5	3091.3	2914.5	2676.2	2456.7	2308.8	2281.0	2283.9	2281.0	2266.1
3115.1	30°	3232.3	3225.3	2928.4	2585.8	2301.8	2188.6	2190.6	2203.5	2205.5	2195.6
3357.4	32.5°	3463.7	3393.1	2935.4	2468.6	2153.9	2083.4	2085.3	2099.2	2109.2	2092.3
3674.2	35°	3743.7	3588.8	2924.4	2321.7	2039.7	1983.1	1968.2	1972.1	1975.1	1959.2
4058.5	37.5°	4070.4	3808.2	2875.8	2158.8	1945.3	1884.8	1853.0	1826.2	1810.3	1795.4
4493.4	40°	4428.9	4047.5	2786.4	1999.9	1840.1	1780.5	1732.8	1682.2	1628.6	1608.7
4954.2	42.5°	4804.2	4293.8	2678.2	1848.0	1718.9	1670.3	1619.6	1546.1	1465.7	1425.0
5432.8	45°	5193.5	4546.0	2571.9	1698.1	1594.8	1573.9	1515.3	1427.0	1339.6	1287.9
5912.4	47.5°	5574.8	4784.4	2416.0	1547.1	1478.6	1501.4	1455.8	1374.3	1277.0	1195.6
6388.1	50°	5939.3	5007.8	2160.8	1394.2	1384.3	1479.6	1435.9	1318.7	1207.5	1103.2
6854.8	52.5°	6300.7	5188.5	1834.1	1255.2	1333.6	1473.6	1410.1	1281.0	1145.0	1035.7
7293.7	55°	6607.6	5281.9	1519.3	1136.0	1260.1	1423.0	1379.3	1236.3	1056.6	940.4
7594.6	57.5°	6782.3	5206.4	1257.2	1018.8	1158.9	1339.6	1326.7	1141.0	951.3	861.9
7653.2	60°	6706.9	4900.6	1042.7	916.6	1062.5	1249.2	1235.3	1046.6	870.9	786.5
7339.4	62.5°	6290.8	4317.6	872.9	827.2	975.1	1156.9	1144.0	974.2	809.3	727.9
6506.3	65°	5452.7	3512.3	740.8	752.7	886.8	1045.6	1064.5	913.6	760.7	681.2
5033.6	67.5°	4158.8	2544.1	637.5	688.2	800.4	936.4	991.0	869.9	719.9	644.5
2912.5	70°	2370.3	1444.8	550.1	625.6	723.9	835.1	934.4	835.1	676.2	613.7
1091.3	72.5°	898.7	663.3	475.7	563.0	650.4	749.7	871.9	780.5	625.6	578.9
564.0	75°	479.6	404.2	400.2	489.6	566.0	666.3	793.4	726.9	587.9	611.7
390.3	77.5°	326.7	286.0	334.6	419.1	473.7	574.0	710.0	645.5	509.4	507.4
270.1	80°	226.4	202.6	272.1	337.6	366.4	482.6	619.6	554.1	415.1	387.3
166.8	82.5°	136.0	132.1	203.6	252.2	259.2	372.4	513.4	464.7	339.6	295.9
99.3	85°	74.5	78.4	130.1	148.0	150.9	260.2	402.2	359.5	261.2	219.5
35.7	87.5°	20.9	26.8	47.7	58.6	72.5	135.1	239.3	213.5	131.1	91.4
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>
2447.8
2627.5
2741.7
2774.5
2756.6
2714.9
2657.3
2560.0
2453.8
2386.2
2330.6
2269.0
2200.5
2100.2
1970.2
1805.3
1617.6
1429.9
1284.0
1186.7
1094.3
1023.8
930.5
850.0
774.6
715.0
668.3
632.6
605.7
571.0
631.6
467.7
370.4
297.9
221.4
91.4
0.0

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