

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: P957485

Luminaire Tested: **GALN-SB9D-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

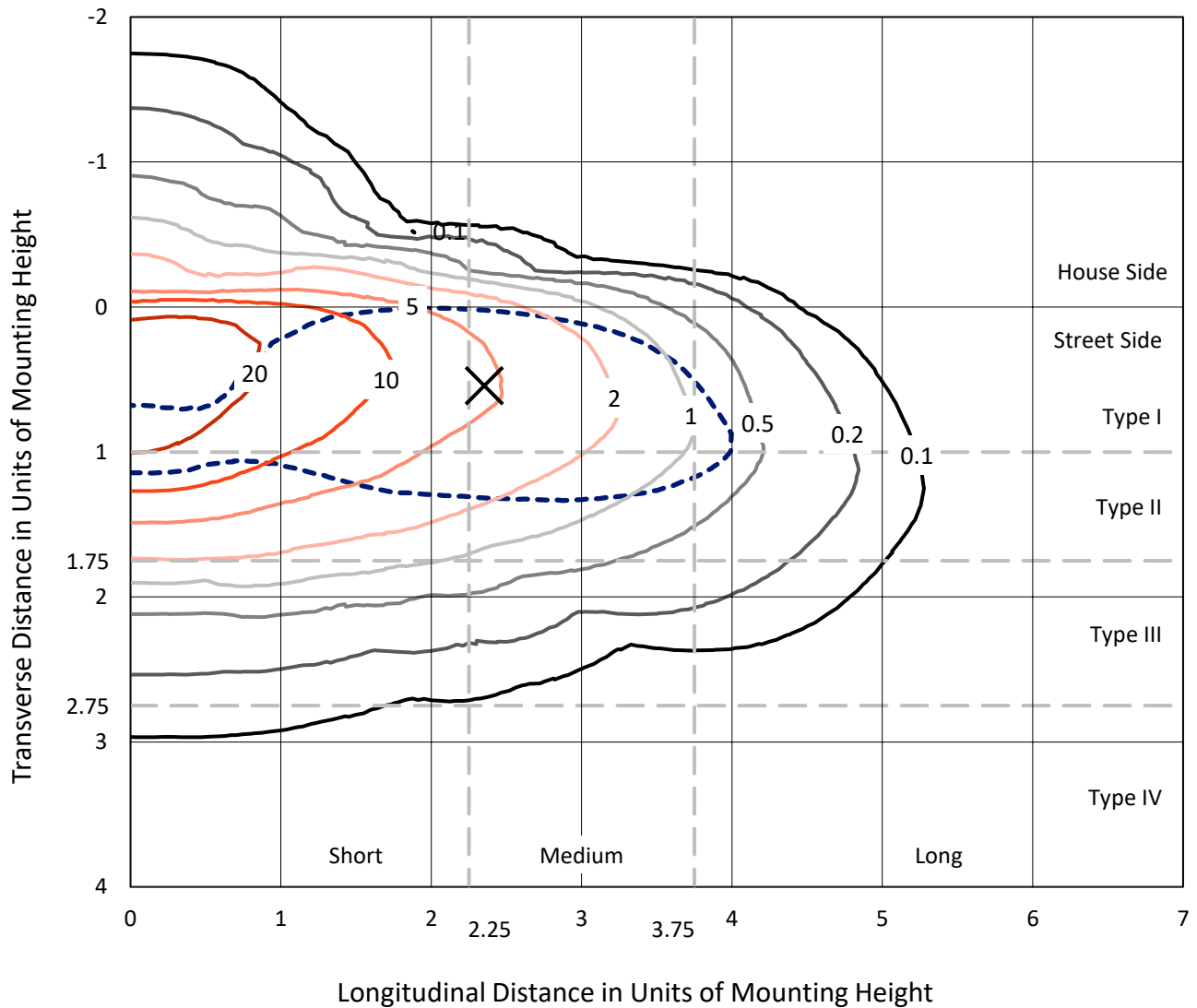
Lumens per Lamp: N/A  
Luminaire Lumens: 68240 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

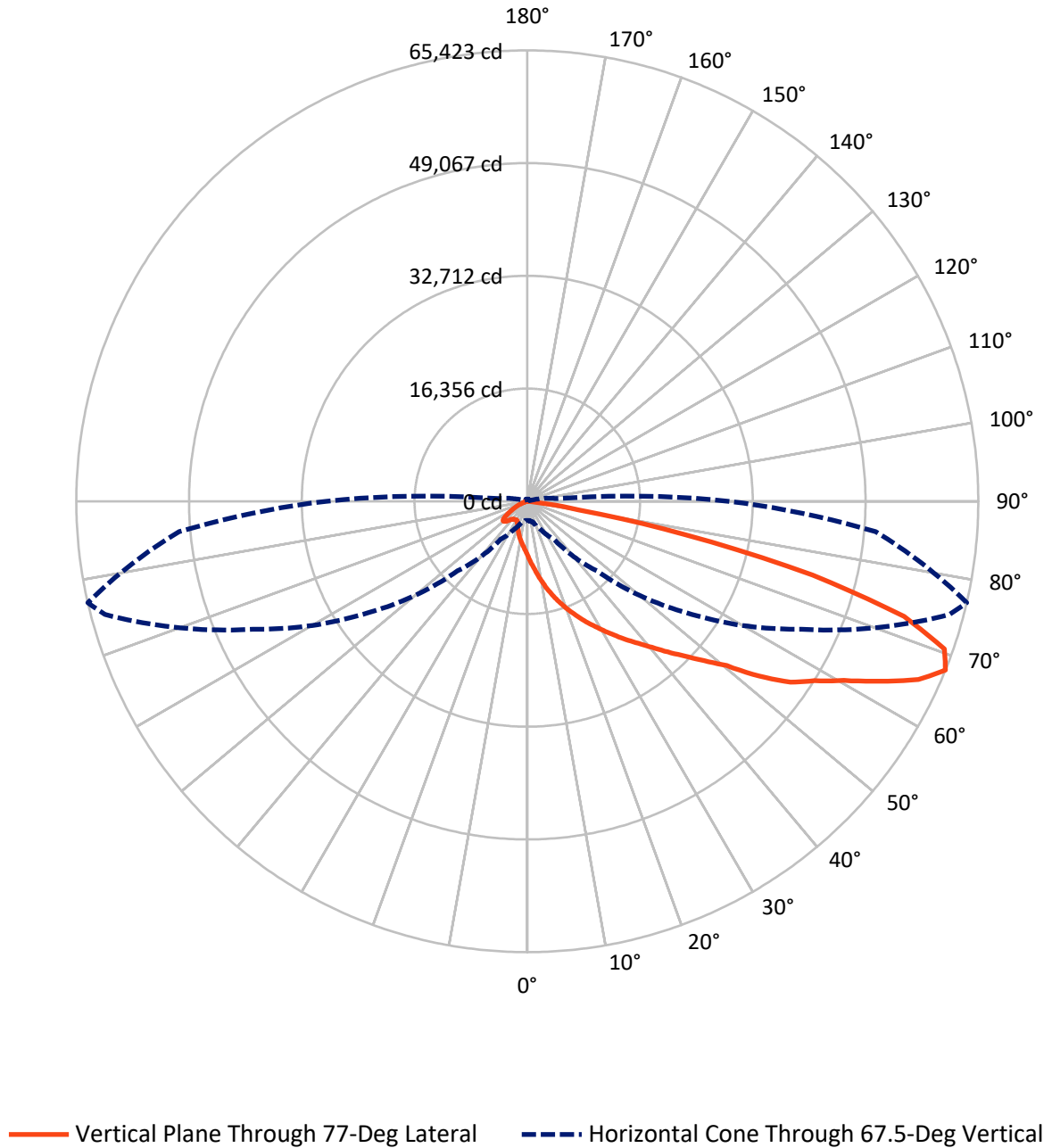
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5020.5	0.0	5020.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	63219.5	0.0	63219.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	68240.0	0.0	68240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	803.2	1.2
10°-20°	2812.6	4.1
20°-30°	5427.5	8.0
30°-40°	9422.5	13.8
40°-50°	13681.0	20.0
50°-60°	15710.9	23.0
60°-70°	13640.0	20.0
70°-80°	6424.6	9.4
80°-90°	317.7	0.5
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°	68240.0	100.0
0°-180°	68240.0	100.0

**Coefficient of Utilization**



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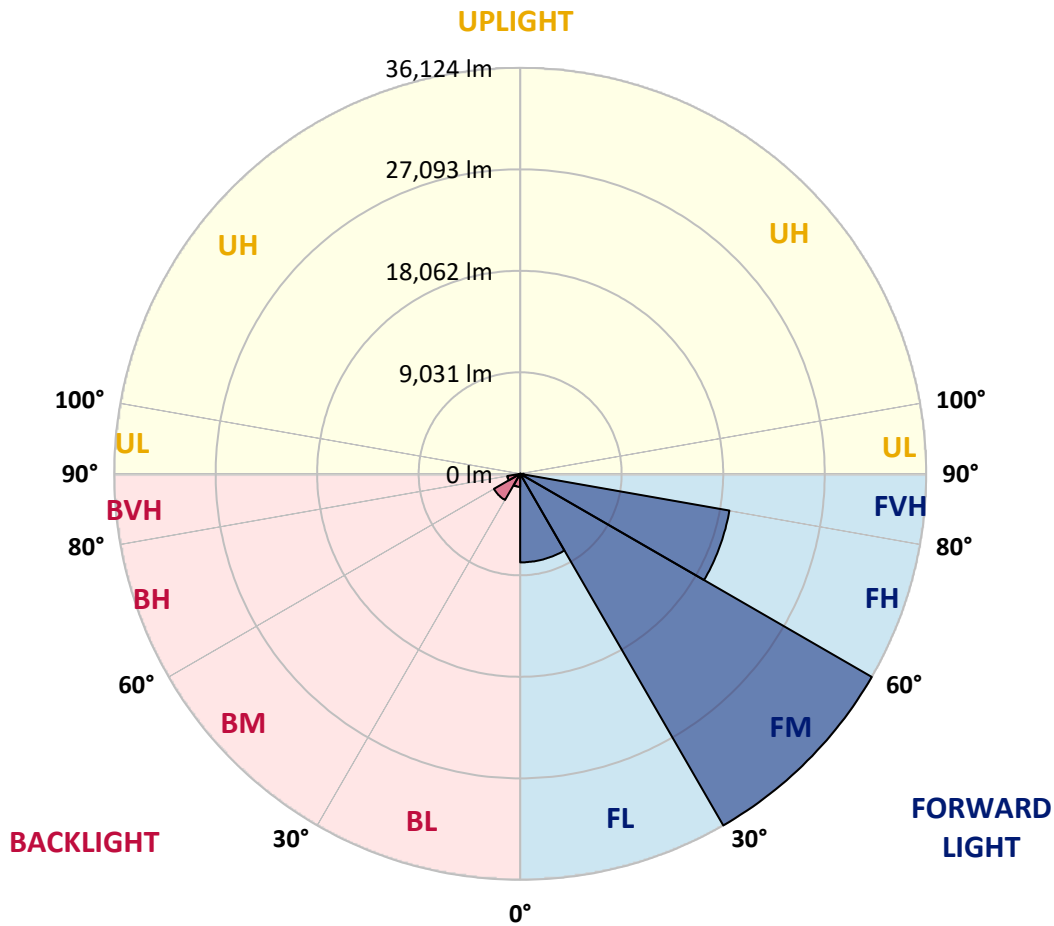
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7881.0	11.5			
FM (30°-60°)	36124.4	52.9			
FH (60°-80°)	18902.3	27.7			G5
FVH (80°-90°)	311.9	0.5			G3/500
BL (0°-30°)	1162.3	1.7	B3/2500		
BM (30°-60°)	2690.0	3.9	B3/5000		
BH (60°-80°)	1162.3	1.7	B3/2500		G3/2500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1
2.5°	10894.7	10962.5	10865.0	10678.6	10398.9	10216.7	9771.7	9352.2	8886.1	8737.8
5°	13280.4	13339.7	13229.5	13026.1	12653.2	12297.3	11712.5	10835.3	9924.3	9631.9
7.5°	15047.4	15081.3	15039.0	14852.5	14496.6	14094.0	13441.4	12403.2	11051.5	10729.4
10°	16318.7	16428.9	16416.2	16344.1	16106.8	15780.5	15085.6	13903.3	12314.2	11899.0
12.5°	17162.0	17284.8	17356.9	17517.9	17505.2	17297.6	16687.4	15437.3	13572.8	13085.5
15°	17407.7	17539.1	17814.5	18187.4	18518.0	18623.9	18195.9	16941.6	14958.4	14335.5
17.5°	17267.9	17471.3	17801.8	18390.8	19115.5	19594.3	19547.7	18395.1	16217.0	15505.1
20°	17577.2	17772.2	18030.6	18526.4	19369.7	20238.4	20585.9	19785.0	17467.1	16721.3
22.5°	19289.2	19255.3	19280.7	19361.2	19865.5	20725.7	21441.9	21047.8	18704.4	17941.7
25°	22001.2	21848.7	21590.2	21153.7	21026.6	21441.9	22187.7	22166.5	20009.6	19191.7
27.5°	25111.5	25086.1	24480.2	23429.2	22836.0	22675.0	23030.9	23255.5	21302.0	20429.1
30°	28090.5	28158.3	27340.5	26170.9	25081.9	24450.5	24128.4	24289.5	22615.6	21763.9
32.5°	30683.9	30755.9	29866.0	28497.3	27149.8	26387.0	25709.0	25310.7	24047.9	23119.9
35°	32874.7	32946.7	31925.5	30412.7	28976.2	28285.4	27518.5	26429.4	25488.7	24624.2
37.5°	34832.4	34811.2	33442.5	31917.0	30505.9	29959.3	29556.7	27806.6	26971.8	26137.0
40°	35989.3	36078.2	34908.7	33226.4	31857.7	31459.4	31433.9	29514.3	28683.8	27874.4
42.5°	36328.3	36485.0	35637.5	34256.1	33014.5	32582.3	33247.6	31361.9	30675.4	29887.2
45°	35718.1	35870.6	35485.0	34527.3	33802.7	33523.0	34807.0	33277.2	32802.6	32022.9
47.5°	33938.3	34129.0	34222.2	34018.8	34010.3	34294.3	36205.4	35294.3	35328.2	34531.6
50°	30493.2	30815.2	31671.2	32391.6	33506.1	34904.5	37565.6	37480.9	38175.8	37489.3
52.5°	24230.1	24687.8	27637.1	29607.6	32111.9	34790.0	39061.5	40989.5	43171.9	42167.6
55°	19471.4	19471.4	21869.8	25556.5	29391.4	34035.8	39714.0	43269.3	46574.6	46337.3
57.5°	15873.8	16064.4	17594.2	20852.8	25454.8	32239.1	40116.6	44701.6	49316.3	49142.5
60°	9797.1	10208.2	13098.2	16314.5	20975.7	29039.7	39862.4	46150.8	52642.7	52782.6
62.5°	5517.3	5669.8	6958.0	11737.9	16310.2	24738.6	37917.3	46960.2	56897.2	57490.4
65°	3809.5	3885.8	4381.6	7305.5	11305.7	19696.0	34116.3	46455.9	61160.1	62359.3
67.5°	2767.1	2805.2	3114.6	4462.1	6708.0	14280.4	28158.3	43913.4	63418.7	65423.1
70°	2127.2	2152.7	2377.2	2932.4	3962.1	8814.0	20450.3	38858.1	61783.0	64177.2
72.5°	1728.9	1754.3	1928.1	2169.6	2627.3	5212.1	12394.7	31556.8	54562.3	57147.2
75°	1457.7	1491.6	1648.4	1805.2	2059.4	3347.6	5813.9	21975.8	41031.9	42726.9
77.5°	809.4	745.8	1339.1	1495.8	1737.4	2118.8	2720.5	12932.9	22980.1	23450.4
80°	504.3	521.2	1063.6	1203.5	1334.8	1067.9	1245.8	4979.1	7966.5	7568.2
82.5°	29.7	67.8	817.8	868.7	915.3	457.7	470.4	1690.8	1919.6	1762.8
85°	0.0	0.0	372.9	300.9	317.8	131.4	135.6	394.1	258.5	279.7
87.5°	0.0	0.0	0.0	8.5	0.0	12.7	25.4	33.9	12.7	17.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7869.1	0°	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1
8271.6	2.5°	7975.0	7678.4	7076.7	6487.6	6008.8	5563.9	5246.1	4945.2	4792.6	4784.2
8805.6	5°	8216.6	7593.6	6390.2	5326.6	4470.6	3784.1	3339.2	3021.4	2860.3	2805.2
9462.4	7.5°	8555.6	7619.1	5788.5	4309.6	3301.0	2712.0	2457.8	2356.1	2322.2	2284.0
10203.9	10°	8983.5	7678.4	5250.3	3470.5	2601.8	2305.2	2203.5	2161.1	2135.7	2110.3
11038.7	12.5°	9462.4	7733.5	4716.4	2881.5	2288.3	2135.7	2063.7	2012.8	1978.9	1949.3
11894.7	15°	9928.5	7767.4	4161.2	2470.5	2127.2	2004.3	1928.1	1873.0	1826.4	1792.5
12733.7	17.5°	10390.4	7814.0	3640.0	2224.7	1995.9	1873.0	1796.7	1728.9	1690.8	1652.6
13615.2	20°	10903.1	7805.5	3148.5	2051.0	1864.5	1741.6	1661.1	1597.5	1559.4	1517.0
14547.4	22.5°	11377.7	7763.1	2716.3	1902.6	1728.9	1610.3	1521.3	1457.7	1419.6	1385.7
15500.8	25°	11924.4	7729.2	2356.1	1767.0	1601.8	1483.1	1385.7	1326.3	1284.0	1254.3
16458.5	27.5°	12449.8	7678.4	2093.3	1644.2	1478.9	1364.5	1271.3	1203.5	1165.3	1144.1
17445.9	30°	12966.8	7665.7	1995.9	1525.5	1368.7	1254.3	1161.1	1097.5	1067.9	1059.4
18530.7	32.5°	13589.7	7699.6	2038.2	1483.1	1267.0	1152.6	1063.6	1017.0	987.3	987.3
19738.4	35°	14255.0	7691.1	2101.8	1521.3	1199.2	1050.9	983.1	953.4	923.8	923.8
21077.4	37.5°	15089.8	7703.8	2152.7	1584.8	1173.8	966.2	928.0	889.9	872.9	872.9
22543.6	40°	16335.6	8123.3	2127.2	1639.9	1165.3	906.8	830.6	817.8	805.1	805.1
24200.5	42.5°	17861.1	9034.4	2161.1	1644.2	1161.1	864.5	762.8	788.2	758.5	754.3
26069.2	45°	19530.7	10030.2	2377.2	1555.2	1156.8	843.3	728.9	758.5	711.9	711.9
28234.6	47.5°	21187.6	11017.6	2597.6	1428.0	1144.1	839.0	699.2	682.2	669.5	673.8
31056.8	50°	23471.6	11822.7	2682.4	1254.3	1114.5	830.6	644.1	648.3	639.9	648.3
35035.8	52.5°	25959.0	11992.2	2580.6	1059.4	1029.7	805.1	606.0	622.9	618.7	627.2
37836.8	55°	27510.0	11810.0	2131.5	881.4	898.4	703.4	567.8	601.7	601.7	601.7
40574.3	57.5°	29111.8	11034.5	1512.8	716.1	745.8	576.3	533.9	580.5	576.3	572.1
43871.0	60°	30264.4	9780.2	995.8	589.0	593.3	474.6	495.8	546.6	542.4	521.2
47269.5	62.5°	31124.6	8394.5	639.9	500.0	453.4	428.0	453.4	495.8	478.8	432.2
50151.1	65°	31027.1	6474.9	491.6	428.0	372.9	372.9	394.1	432.2	381.4	305.1
50701.9	67.5°	29217.7	4381.6	406.8	360.2	313.6	309.3	326.3	360.2	326.3	258.5
47879.7	70°	25984.5	2864.6	326.3	279.7	250.0	228.8	262.7	309.3	275.4	207.6
40760.7	72.5°	21090.1	1745.9	245.8	203.4	182.2	148.3	207.6	254.3	220.4	152.6
28344.8	75°	13644.8	889.9	169.5	131.4	97.5	89.0	152.6	190.7	152.6	93.2
12577.0	77.5°	5220.6	372.9	93.2	59.3	50.9	42.4	84.8	114.4	63.6	21.2
2436.6	80°	1004.3	156.8	46.6	29.7	25.4	17.0	12.7	8.5	0.0	0.0
432.2	82.5°	173.7	50.9	17.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
84.8	85°	59.3	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29.7	87.5°	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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180°  
7869.1  
4775.7  
2796.8  
2275.5  
2101.8  
1940.8  
1788.2  
1648.4  
1512.8  
1381.4  
1250.1  
1144.1  
1055.1  
987.3  
923.8  
872.9  
805.1  
750.0  
711.9  
673.8  
648.3  
627.2  
601.7  
572.1  
521.2  
423.8  
296.6  
250.0  
199.2  
144.1  
80.5  
17.0  
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