

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: P944824

Luminaire Tested: **GALN-SB9D-950-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9D-950-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

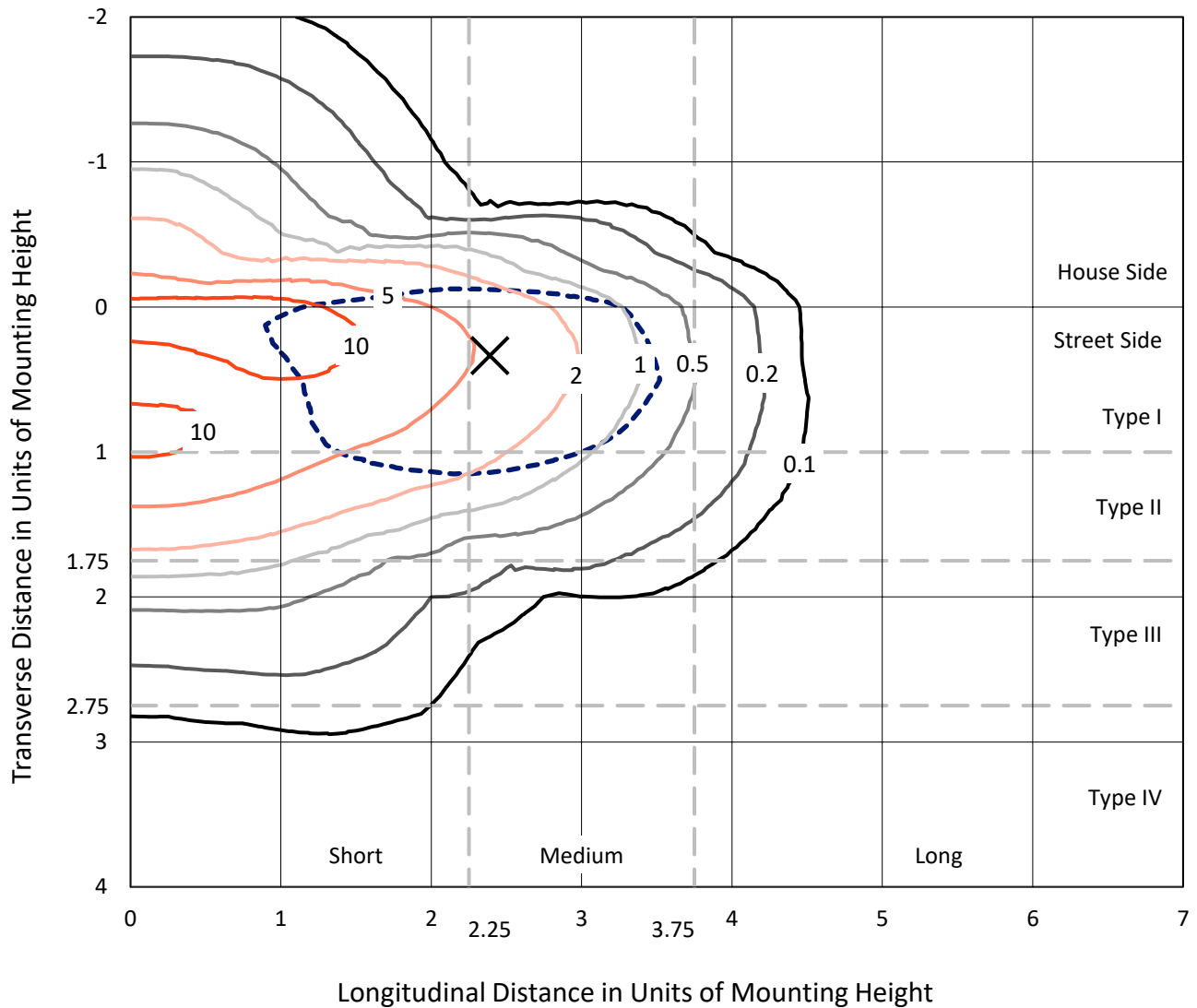
Lumens per Lamp: N/A  
Luminaire Lumens: 47084 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

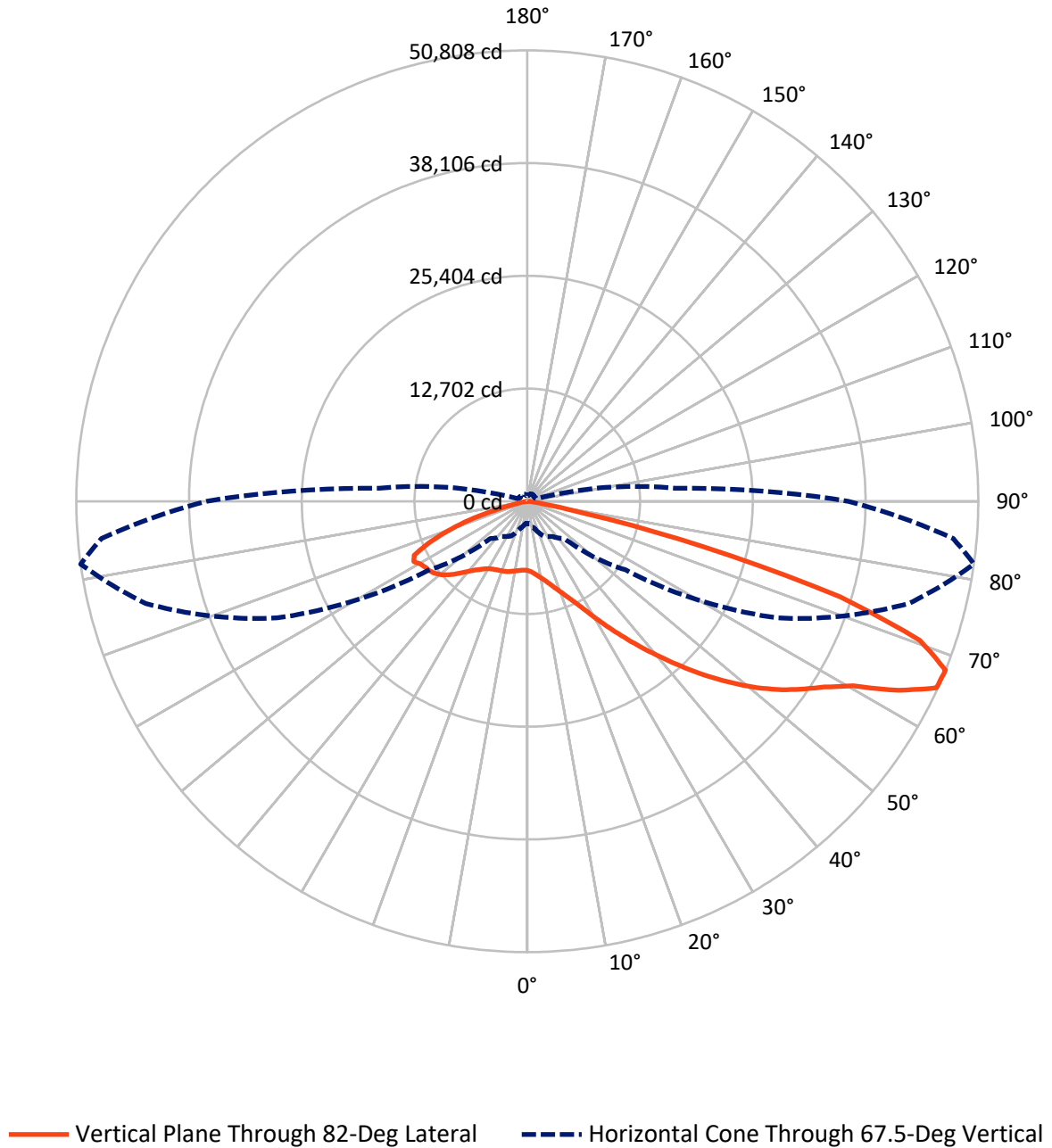
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	8528.9	0.0	8528.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	38555.1	0.0	38555.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	47084.0	0.0	47084.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	694.9	1.5
10°-20°	1805.9	3.8
20°-30°	2892.4	6.1
30°-40°	5114.7	10.9
40°-50°	8961.5	19.0
50°-60°	11952.1	25.4
60°-70°	11126.8	23.6
70°-80°	4270.4	9.1
80°-90°	265.2	0.6
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°	47084.0	100.0
0°-180°	47084.0	100.0

**Coefficient of Utilization**



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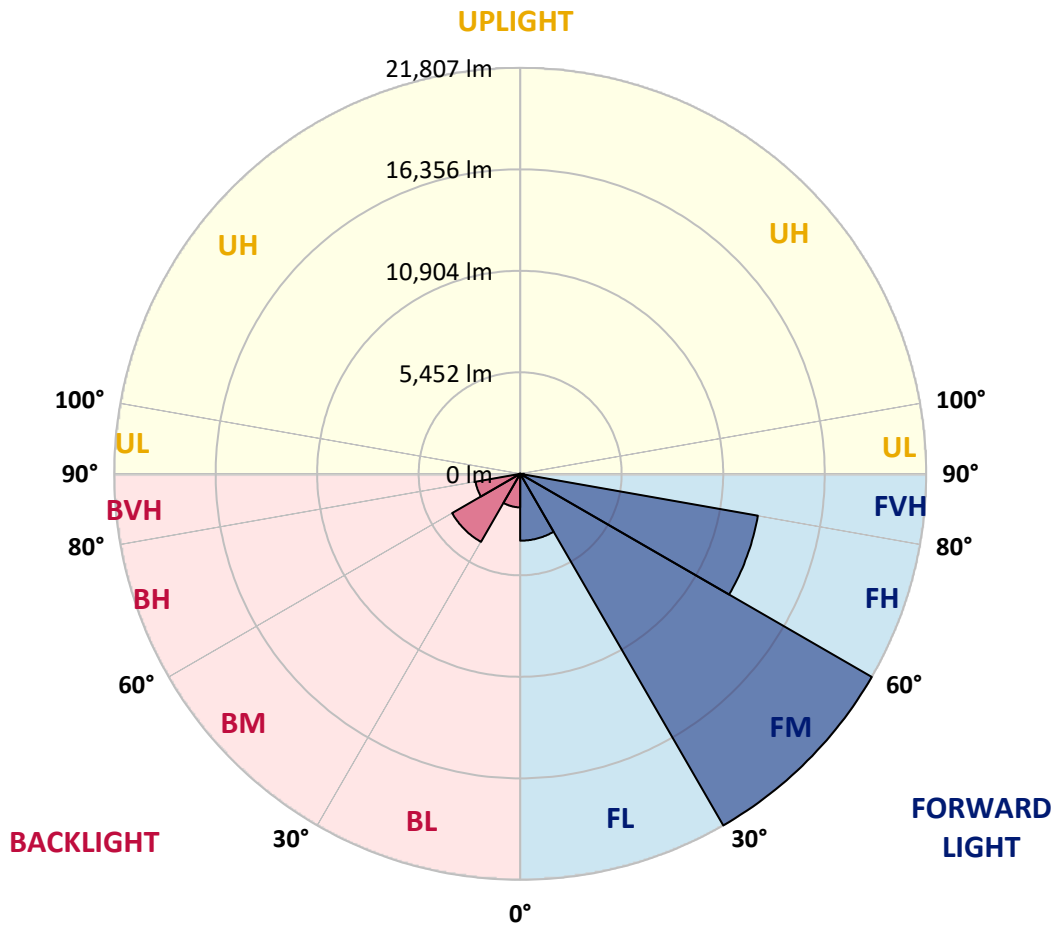
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3592.0	7.6			
FM (30°-60°)	21807.4	46.3			
FH (60°-80°)	12962.9	27.5			G5
FVH (80°-90°)	192.8	0.4			G2/225
BL (0°-30°)	1801.3	3.8	B3/2500		
BM (30°-60°)	4220.9	9.0	B3/5000		
BH (60°-80°)	2434.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	72.4	0.2			G1/100
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°	82°
0°	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2
2.5°	8244.3	8291.8	8264.6	8251.1	8227.4	8193.5	8166.3	8081.6	7993.5	7935.8
5°	8410.4	8457.9	8454.5	8468.0	8485.0	8495.2	8488.4	8393.5	8268.0	8169.7
7.5°	8268.0	8322.3	8366.3	8434.1	8552.8	8678.2	8739.2	8718.9	8590.1	8454.5
10°	7864.6	7922.3	8027.4	8186.7	8437.5	8708.7	8935.9	9040.9	8959.6	8810.4
12.5°	7125.6	7183.3	7390.0	7735.8	8156.2	8627.4	9061.3	9342.6	9363.0	9213.8
15°	6295.1	6352.7	6573.1	7007.0	7647.7	8403.6	9129.1	9661.3	9841.0	9712.1
17.5°	5779.8	5830.7	5996.8	6345.9	7013.8	7956.2	9105.3	10000.3	10410.5	10308.8
20°	5623.9	5668.0	5745.9	5990.0	6546.0	7491.7	8949.4	10318.9	11024.0	10966.4
22.5°	5790.0	5830.7	5854.4	5962.9	6312.0	7186.6	8752.8	10644.4	11735.9	11742.7
25°	6173.1	6213.7	6186.6	6254.4	6407.0	7091.7	8678.2	11027.4	12630.9	12705.5
27.5°	6803.6	6807.0	6742.6	6739.2	6762.9	7234.1	8756.2	11437.6	13759.7	13898.7
30°	8068.0	8017.2	7769.7	7501.9	7379.9	7661.2	8973.1	11922.4	15092.0	15339.4
32.5°	10017.2	9942.7	9488.4	8847.7	8203.6	8349.4	9363.0	12474.9	16542.9	16990.3
35°	12132.6	12112.2	11637.6	10685.1	9559.6	9329.1	9996.9	13200.4	18125.9	18837.8
37.5°	14098.7	14088.5	13817.3	12695.3	11325.8	10695.2	11013.9	14149.6	19820.9	20851.5
40°	15895.4	15925.9	15654.7	14651.3	13271.6	12447.8	12397.0	15322.5	21705.7	23044.7
42.5°	17448.0	17481.9	17207.3	16464.9	15193.7	14386.9	14095.3	16759.8	23546.4	25400.7
45°	18502.2	18712.4	18671.7	18078.5	17166.6	16329.3	16136.1	18563.2	25644.8	27899.1
47.5°	18800.5	18993.8	19298.9	19380.2	18824.3	18000.5	18231.0	20736.2	27766.9	30400.9
50°	18064.9	18244.6	18878.5	19722.6	20109.1	19854.8	20268.4	23065.1	29939.8	32895.9
52.5°	16614.0	16797.1	17597.1	18932.8	20509.1	21309.1	22312.5	25360.1	32045.0	35258.6
55°	14515.7	14708.9	15736.0	17248.0	19746.3	21909.1	24017.6	27651.6	33973.9	37384.1
57.5°	11661.4	11803.7	12871.6	14986.9	17827.6	21312.5	25275.3	30153.4	35790.9	39472.3
60°	7600.2	7725.6	8966.4	11325.8	14647.9	19319.2	25526.2	32943.3	38204.5	42187.7
62.5°	5054.4	5139.1	5874.7	7607.0	10315.6	15492.0	24058.3	35170.5	41743.6	46913.2
65°	3467.9	3552.6	4288.3	5495.1	6664.6	10247.8	19837.9	34875.6	44950.5	50665.9
67.5°	2474.6	2545.8	3169.6	4308.6	4823.9	5952.7	13447.8	31106.0	44489.4	50808.2
70°	1772.9	1813.6	2328.9	3356.0	3834.0	3576.4	7478.2	23790.5	38953.7	46916.6
72.5°	1240.7	1254.3	1617.0	2556.0	3088.2	2610.2	3559.4	15861.5	29461.9	36824.8
75°	840.7	857.7	1088.2	1874.6	2478.0	1993.3	1884.8	8505.3	17295.4	20383.6
77.5°	515.3	522.0	701.7	1281.4	1854.3	1518.7	1213.6	3603.5	6691.7	6569.7
80°	291.5	291.5	447.5	796.6	1264.4	979.7	850.9	1532.2	2118.7	1861.1
82.5°	162.7	166.1	325.4	494.9	837.3	579.7	467.8	708.5	915.3	810.2
85°	67.8	74.6	200.0	233.9	400.0	288.1	189.8	298.3	339.0	301.7
87.5°	6.8	10.2	61.0	44.1	47.5	57.6	27.1	57.6	47.5	47.5
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°
7800.2	0°	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2	7800.2
7915.5	2.5°	7851.1	7800.2	7671.4	7522.3	7325.6	7230.7	7101.9	7013.8	6939.2	6946.0
8112.1	5°	8003.6	7874.8	7586.7	7227.3	6779.9	6461.2	6122.2	5888.3	5698.5	5657.8
8383.3	7.5°	8213.8	8010.4	7505.3	6857.8	6101.9	5529.0	5017.1	4688.3	4454.4	4379.8
8712.1	10°	8485.0	8190.1	7400.2	6393.4	5305.2	4576.4	4027.2	3769.6	3610.3	3556.0
9098.6	12.5°	8800.3	8396.9	7261.2	5827.3	4484.9	3783.2	3434.0	3305.2	3254.3	3237.4
9573.2	15°	9196.9	8654.5	7051.1	5156.1	3789.9	3298.4	3149.2	3132.3	3139.1	3132.3
10142.7	17.5°	9668.1	8935.9	6708.7	4464.5	3322.1	3050.9	2996.7	3010.3	3027.2	3023.8
10780.0	20°	10183.3	9213.8	6271.4	3851.0	3003.5	2874.7	2844.1	2857.7	2871.3	2864.5
11515.6	22.5°	10769.8	9512.1	5786.6	3373.0	2789.9	2711.9	2678.0	2681.4	2681.4	2667.9
12447.8	25°	11471.5	9841.0	5278.1	3034.0	2627.2	2566.2	2525.5	2511.9	2491.6	2450.9
13580.1	27.5°	12308.8	10190.1	4790.0	2796.7	2498.4	2440.7	2393.3	2359.4	2308.5	2240.7
14939.4	30°	13251.2	10613.9	4376.4	2647.5	2396.7	2339.1	2284.8	2234.0	2159.4	2074.6
16502.2	32.5°	14359.7	11068.1	4074.7	2549.2	2305.2	2244.1	2179.7	2118.7	2037.3	1952.6
18258.2	35°	15681.8	11617.3	3898.4	2481.4	2234.0	2152.6	2081.4	2013.6	1952.6	1878.0
20166.7	37.5°	17115.7	12200.4	3844.2	2447.5	2186.5	2061.1	1979.7	1932.3	1925.5	1881.4
22231.2	40°	18685.3	12891.9	3884.9	2427.2	2135.7	1972.9	1884.8	1874.6	1891.6	1813.6
24438.0	42.5°	20346.4	13712.3	3952.7	2403.5	2064.5	1884.8	1800.1	1800.1	1786.5	1678.0
26770.3	45°	22143.0	14658.1	4020.5	2345.8	1979.7	1796.7	1732.3	1708.5	1650.9	1545.8
29116.1	47.5°	23953.2	15620.8	4071.3	2240.7	1878.0	1722.1	1664.5	1610.2	1525.5	1430.5
31417.9	50°	25671.9	16485.2	4017.1	2084.8	1762.8	1650.9	1589.9	1515.3	1423.8	1359.4
33597.6	52.5°	27207.6	17234.4	3786.6	1901.7	1640.7	1576.3	1522.1	1444.1	1369.5	1301.7
35563.7	55°	28543.2	17841.2	3379.8	1728.9	1532.2	1511.9	1457.7	1359.4	1257.7	1200.0
37512.9	57.5°	29824.6	18302.2	2871.3	1586.5	1433.9	1440.7	1359.4	1271.2	1176.3	1115.3
40140.1	60°	31529.7	18919.2	2356.0	1454.3	1328.9	1349.2	1261.1	1196.6	1078.0	1000.0
44645.4	62.5°	34255.2	19878.5	1871.2	1291.6	1206.8	1213.6	1176.3	1098.3	956.0	864.4
47984.4	65°	36418.0	19526.0	1474.6	1115.3	1067.8	1078.0	1078.0	993.2	840.7	735.6
48164.1	67.5°	36173.9	16719.1	1176.3	942.4	935.6	942.4	966.1	894.9	745.8	661.0
44496.2	70°	33323.0	13298.7	942.4	783.1	813.6	796.6	864.4	817.0	671.2	586.5
34495.9	72.5°	27190.6	9579.9	718.7	647.5	623.7	650.9	779.7	735.6	559.3	464.4
18271.7	75°	15888.6	5112.0	535.6	511.9	450.9	542.4	691.5	627.1	427.1	342.4
5600.2	77.5°	5173.0	1783.1	393.2	376.3	335.6	437.3	589.8	528.8	349.2	271.2
1640.7	80°	1386.5	539.0	267.8	247.5	217.0	325.4	467.8	420.4	250.9	176.3
705.1	82.5°	555.9	227.1	155.9	139.0	118.6	223.7	369.5	339.0	186.4	111.9
220.3	85°	179.7	74.6	57.6	44.1	54.2	139.0	220.3	230.5	132.2	57.6
33.9	87.5°	23.7	10.2	10.2	13.6	10.2	23.7	67.8	64.4	37.3	6.8
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>
7800.2
6878.2
5566.3
4305.2
3515.4
3227.2
3128.9
3017.0
2861.1
2661.1
2444.1
2234.0
2067.9
1956.0
1871.2
1878.0
1817.0
1678.0
1542.4
1427.2
1349.2
1295.0
1193.3
1108.5
989.9
857.7
725.4
647.5
576.3
454.3
332.2
261.0
172.9
111.9
44.1
0.0
0.0

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