

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: P956604

Luminaire Tested: **GALN-SB9A-950-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-950-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

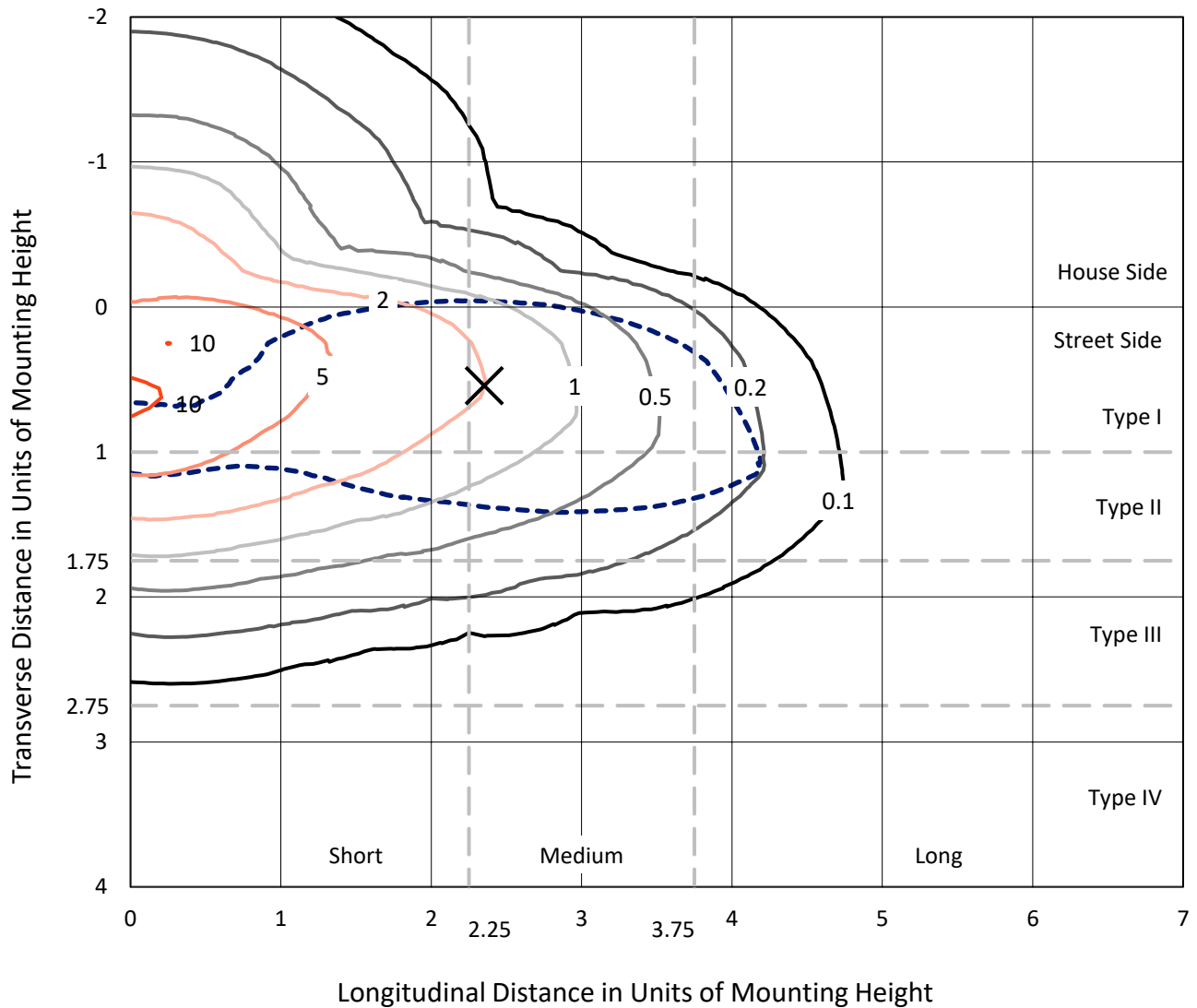
Lumens per Lamp: N/A  
Luminaire Lumens: 28950 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P956604  
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### Iso-Footcandle Lines of Horizontal Illumination

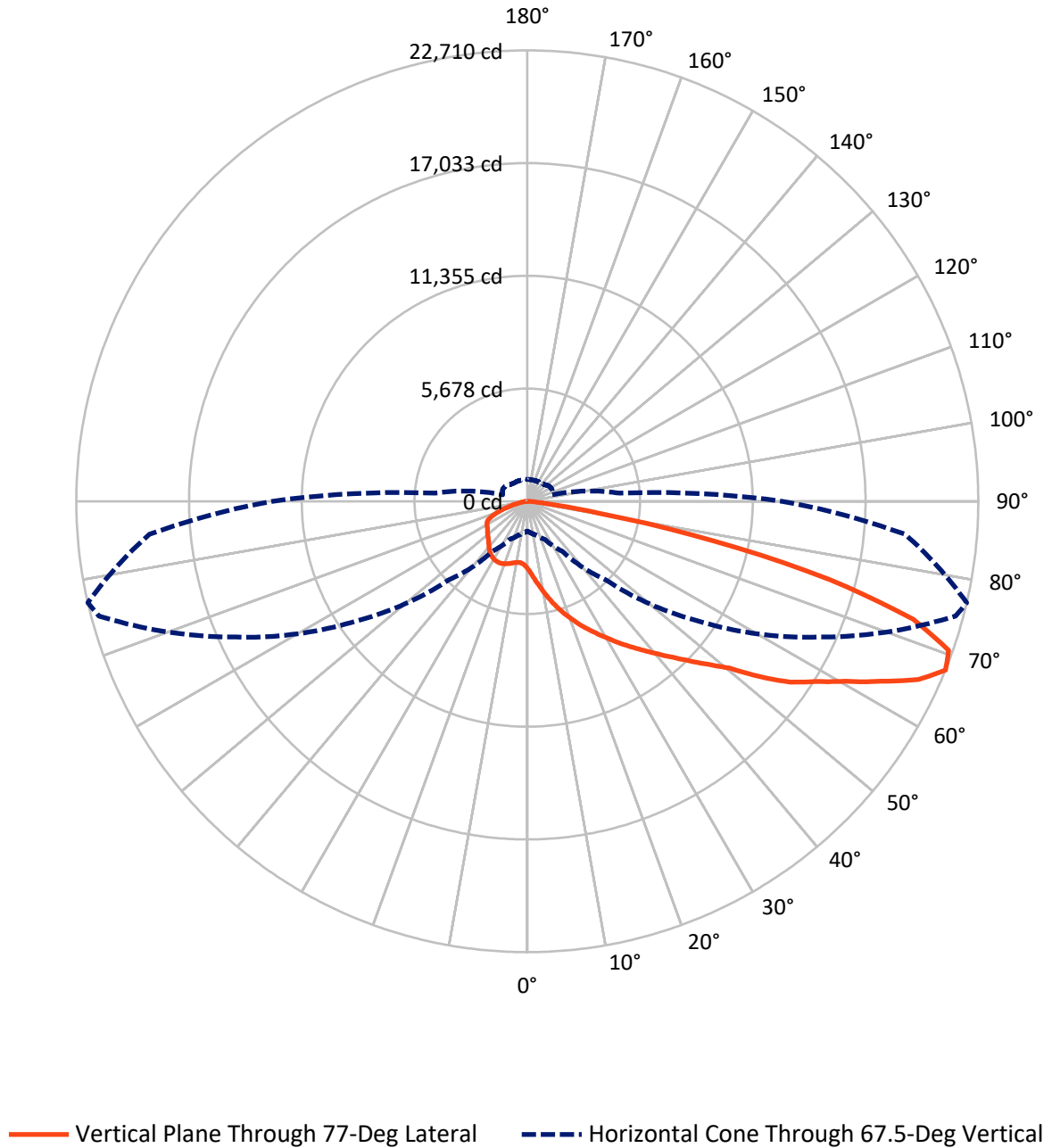
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P956604  
CATALOG NUMBER: GALN-SB9A-950-U-T2R

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5476.2	0.0	5476.2
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	23473.8	0.0	23473.8
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	28950.0	0.0	28950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.1	1.3
10°-20°	1308.0	4.5
20°-30°	2469.6	8.5
30°-40°	3978.6	13.7
40°-50°	5442.0	18.8
50°-60°	6138.6	21.2
60°-70°	5729.6	19.8
70°-80°	3140.8	10.8
80°-90°	378.9	1.3
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°	28950.0	100.0
0°-180°	28950.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P956604

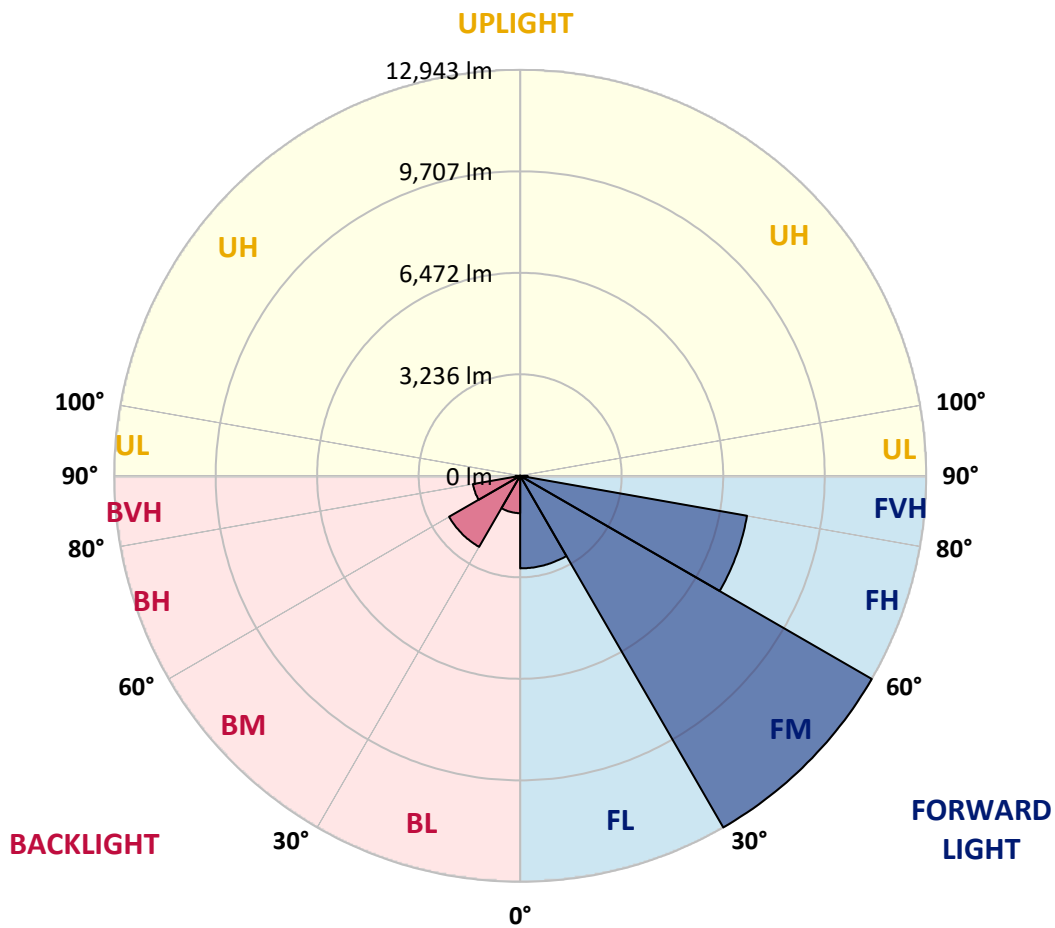
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2951.1	10.2			
FM (30°-60°)	12943.2	44.7			
FH (60°-80°)	7342.6	25.4			G3/7500
FVH (80°-90°)	236.9	0.8			G3/500
BL (0°-30°)	1190.6	4.1	B3/2500		
BM (30°-60°)	2615.8	9.0	B3/5000		
BH (60°-80°)	1527.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	141.9	0.5			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 II Medium



REPORT NUMBER: P956604

CATALOG NUMBER: GALN-SB9A-950-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7
2.5°	4253.0	4282.9	4245.5	4245.5	4120.0	4054.3	3928.7	3833.1	3661.2	3631.4
5°	5027.1	5064.5	5012.2	4989.7	4841.8	4705.8	4495.1	4287.4	3981.0	3949.7
7.5°	5626.4	5674.2	5627.8	5603.9	5472.4	5320.0	5073.4	4783.5	4351.6	4290.4
10°	6115.0	6122.5	6107.5	6116.5	6013.4	5887.9	5635.3	5297.6	4758.1	4674.4
12.5°	6391.5	6425.9	6455.7	6509.5	6491.6	6413.9	6186.7	5783.3	5188.5	5080.9
15°	6521.5	6581.3	6648.5	6772.5	6872.7	6892.1	6718.7	6304.8	5626.4	5496.3
17.5°	6567.8	6624.6	6730.7	6910.0	7125.2	7270.2	7192.5	6811.4	6059.7	5910.3
20°	6802.4	6818.9	6883.1	7053.5	7286.6	7527.2	7585.5	7298.6	6488.6	6319.7
22.5°	7304.5	7271.7	7289.6	7367.3	7534.7	7767.8	7900.8	7729.0	6929.5	6735.2
25°	8133.9	8038.3	7942.6	7853.0	7938.2	8069.7	8220.6	8159.3	7391.2	7144.6
27.5°	9181.5	9064.9	8854.2	8559.8	8456.7	8503.0	8570.3	8558.3	7818.6	7569.1
30°	10212.6	10076.6	9825.6	9399.7	9127.7	9005.2	8954.3	8920.0	8283.4	8017.4
32.5°	11036.0	10928.4	10681.9	10205.1	9810.6	9601.4	9432.6	9310.0	8769.0	8503.0
35°	11756.3	11656.2	11373.8	10853.7	10424.8	10202.2	9981.0	9719.5	9274.1	9005.2
37.5°	12413.8	12313.7	11926.7	11385.7	10953.8	10799.9	10602.7	10158.8	9780.7	9526.7
40°	12829.3	12806.9	12445.2	11832.5	11384.2	11308.0	11242.2	10668.4	10342.6	10106.5
42.5°	12935.4	12984.7	12697.8	12194.2	11766.8	11705.5	11859.4	11245.2	10973.3	10747.6
45°	12679.8	12821.8	12633.5	12291.3	12038.8	12005.9	12406.4	11875.9	11671.1	11464.9
47.5°	12032.8	12273.4	12195.7	12147.8	12112.0	12253.9	12887.6	12545.4	12461.7	12282.3
50°	10726.7	11182.5	11318.5	11620.3	11967.0	12446.7	13325.4	13276.1	13385.2	13204.4
52.5°	8468.7	9096.3	9885.3	10641.5	11521.7	12382.5	13806.6	14325.2	14785.4	14686.8
55°	6990.7	7273.2	7879.9	9266.7	10657.9	12112.0	14023.3	15172.5	16175.2	16087.0
57.5°	5855.0	6107.5	6481.1	7639.3	9351.9	11497.8	14157.8	15689.5	17127.1	17118.2
60°	4637.1	4904.6	5287.1	6107.5	7826.1	10436.8	14127.9	16278.3	18342.1	18416.8
62.5°	3262.2	3556.6	3981.0	4746.2	6267.4	9061.9	13518.2	16704.2	19772.2	19975.4
65°	2144.4	2338.7	2658.5	3319.0	4669.9	7294.1	12354.1	16759.5	21302.4	21646.1
67.5°	1503.4	1578.1	1766.4	2125.0	3078.4	5593.5	10499.5	16187.2	22323.1	22710.2
70°	1173.1	1210.5	1306.1	1449.6	1933.7	3761.4	8045.8	14698.8	22104.9	22508.4
72.5°	1013.2	1049.1	1084.9	1102.9	1297.1	2322.3	5450.0	12289.8	20050.1	20323.6
75°	919.0	928.0	957.9	951.9	989.3	1506.3	3145.7	8954.3	15819.5	15725.4
77.5°	772.6	784.6	833.9	826.4	878.7	1029.6	1633.4	5778.8	10256.0	9616.4
80°	654.5	660.5	714.3	705.3	763.6	745.7	833.9	2945.4	4350.2	3685.2
82.5°	227.1	280.9	545.5	561.9	582.8	451.3	481.2	1201.5	1328.5	1017.7
85°	110.6	118.1	278.0	394.5	393.0	227.1	234.6	428.9	418.4	328.8
87.5°	17.9	22.4	32.9	153.9	122.5	59.8	80.7	83.7	86.7	74.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956604  
 CATALOG NUMBER: GALN-SB9A-950-U-T2R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3396.7	0°	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7	3396.7
3517.8	2.5°	3434.1	3359.4	3202.5	3057.5	2943.9	2834.8	2773.6	2721.3	2691.4	2685.4
3682.2	5°	3526.7	3372.8	3087.4	2846.8	2689.9	2573.3	2512.1	2473.2	2453.8	2441.8
3903.3	7.5°	3659.7	3434.1	3027.6	2754.1	2589.8	2506.1	2474.7	2468.7	2467.2	2468.7
4170.8	10°	3843.6	3534.2	3021.6	2731.7	2594.3	2547.9	2546.4	2547.9	2553.9	2555.4
4462.2	12.5°	4042.3	3637.3	3045.6	2751.2	2651.0	2625.6	2621.1	2619.7	2624.1	2627.1
4756.6	15°	4259.0	3773.3	3085.9	2793.0	2713.8	2686.9	2682.4	2673.5	2672.0	2670.5
5066.0	17.5°	4481.7	3907.8	3130.7	2837.8	2754.1	2716.8	2700.4	2679.4	2663.0	2658.5
5385.8	20°	4707.3	4040.8	3162.1	2860.3	2757.1	2704.8	2672.0	2636.1	2607.7	2591.3
5708.5	22.5°	4947.9	4179.8	3181.5	2854.3	2730.2	2658.5	2598.7	2556.9	2513.6	2485.2
6034.3	25°	5182.5	4300.8	3180.0	2822.9	2677.9	2586.8	2510.6	2456.8	2397.0	2367.1
6370.6	27.5°	5408.2	4409.9	3142.7	2767.6	2603.2	2501.6	2410.4	2346.2	2287.9	2259.5
6709.8	30°	5641.3	4501.1	3084.4	2686.9	2515.0	2403.0	2302.8	2247.6	2195.2	2168.4
7068.4	32.5°	5872.9	4584.8	3002.2	2586.8	2413.4	2305.8	2207.2	2156.4	2125.0	2125.0
7454.0	35°	6118.0	4643.1	2893.1	2470.2	2305.8	2202.7	2125.0	2095.1	2092.1	2074.2
7862.0	37.5°	6376.5	4680.4	2760.1	2350.7	2199.7	2102.6	2078.7	2042.8	2012.9	1974.1
8310.3	40°	6648.5	4717.8	2600.2	2226.6	2087.7	2033.9	2023.4	1975.6	1890.4	1794.8
8818.4	42.5°	6978.8	4743.2	2434.4	2102.6	1969.6	1951.7	1966.6	1884.4	1748.4	1676.7
9431.1	45°	7361.3	4785.0	2281.9	1980.1	1848.6	1848.6	1911.3	1803.7	1691.6	1646.8
10130.4	47.5°	7857.5	4882.2	2140.0	1845.6	1736.5	1766.4	1788.8	1706.6	1643.8	1588.5
10982.2	50°	8574.8	5115.3	1993.5	1709.6	1651.3	1711.1	1679.7	1631.9	1558.6	1513.8
12336.1	52.5°	9465.4	5252.8	1863.5	1587.0	1578.1	1637.8	1593.0	1548.2	1492.9	1433.1
13362.8	55°	10072.1	5278.2	1754.4	1497.4	1528.8	1522.8	1506.3	1466.0	1436.1	1356.9
14376.0	57.5°	10750.6	5329.0	1664.7	1443.6	1497.4	1431.6	1425.6	1391.3	1352.4	1298.6
15611.8	60°	11562.0	5408.2	1587.0	1422.7	1470.5	1371.8	1342.0	1328.5	1289.7	1262.8
17098.7	62.5°	12446.7	5479.9	1507.8	1425.6	1439.1	1313.6	1268.7	1264.2	1240.3	1231.4
18494.5	65°	13050.5	5284.1	1409.2	1422.7	1389.8	1253.8	1197.0	1195.5	1176.1	1173.1
19099.7	67.5°	12839.7	4664.0	1276.2	1380.8	1339.0	1194.0	1131.2	1125.3	1099.9	1101.4
18467.6	70°	11784.7	3779.3	1092.4	1277.7	1276.2	1140.2	1062.5	1043.1	1008.7	1014.7
16057.2	72.5°	9806.1	2800.5	845.8	1105.8	1176.1	1090.9	983.3	951.9	908.6	914.6
11853.5	75°	7081.9	1903.8	615.7	841.3	1023.7	1032.6	905.6	851.8	799.5	808.5
6597.7	77.5°	3623.9	1078.9	452.8	579.8	804.0	938.5	835.4	763.6	751.7	835.4
1902.4	80°	1182.1	541.0	313.8	406.5	527.5	768.1	732.2	650.1	647.1	666.5
399.0	82.5°	352.7	228.6	201.7	267.5	291.4	588.8	632.1	491.7	422.9	445.3
133.0	85°	121.0	110.6	115.1	133.0	139.0	345.2	442.3	325.8	307.8	339.2
29.9	87.5°	28.4	38.9	32.9	29.9	29.9	83.7	171.9	136.0	188.3	125.5
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°
3396.7
2685.4
2440.3
2473.2
2556.9
2628.6
2669.0
2663.0
2597.2
2486.7
2367.1
2258.0
2166.9
2126.5
2069.7
1968.1
1781.3
1678.2
1654.3
1587.0
1509.3
1421.2
1358.4
1280.7
1270.2
1231.4
1171.6
1101.4
1020.7
913.1
811.5
823.4
572.3
460.3
334.7
121.0
0.0

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