

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: P956352

Luminaire Tested: **GALN-SB9A-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956352
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-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44029 lumens
Efficiency: N/A
Efficacy: 172.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

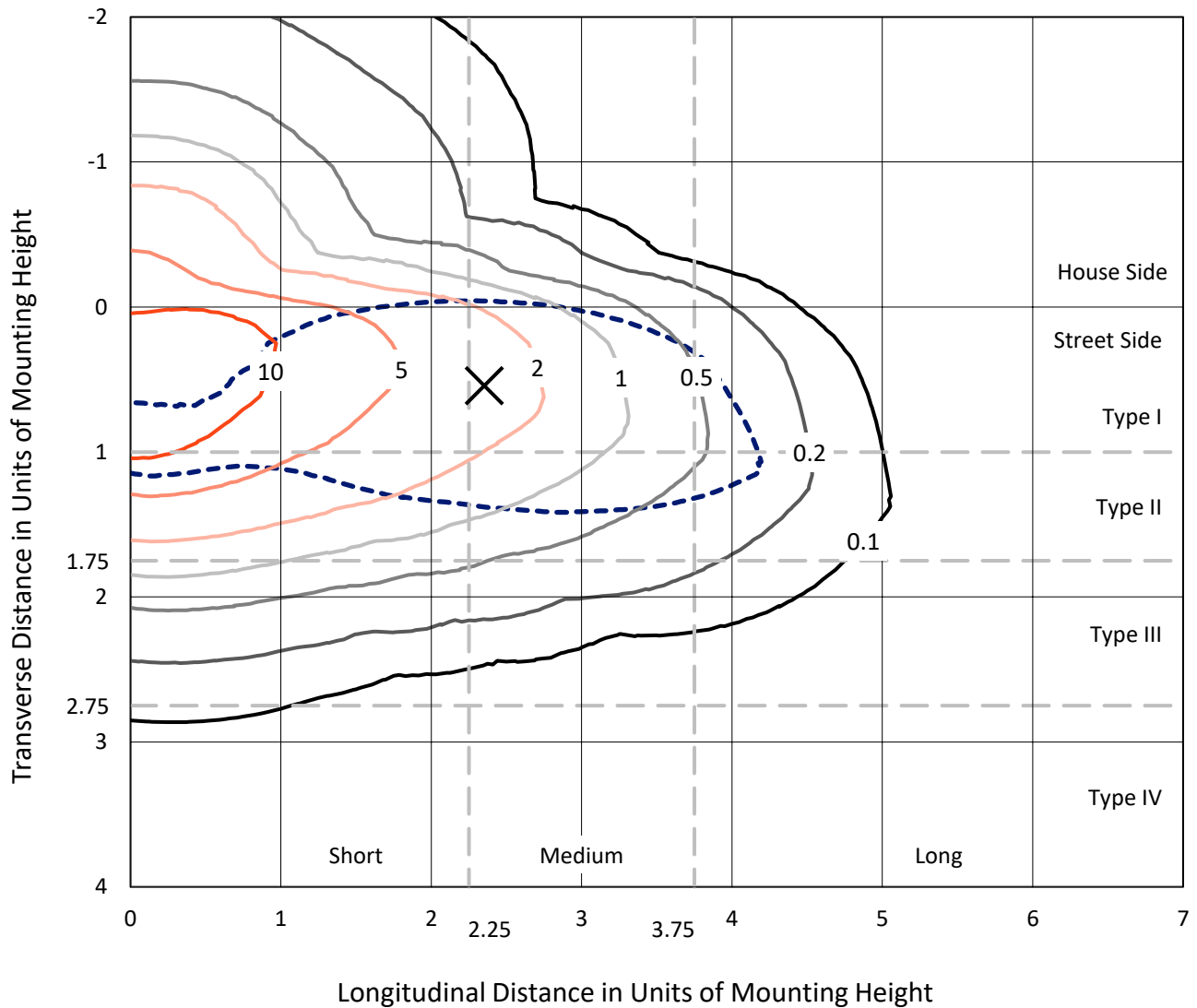
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

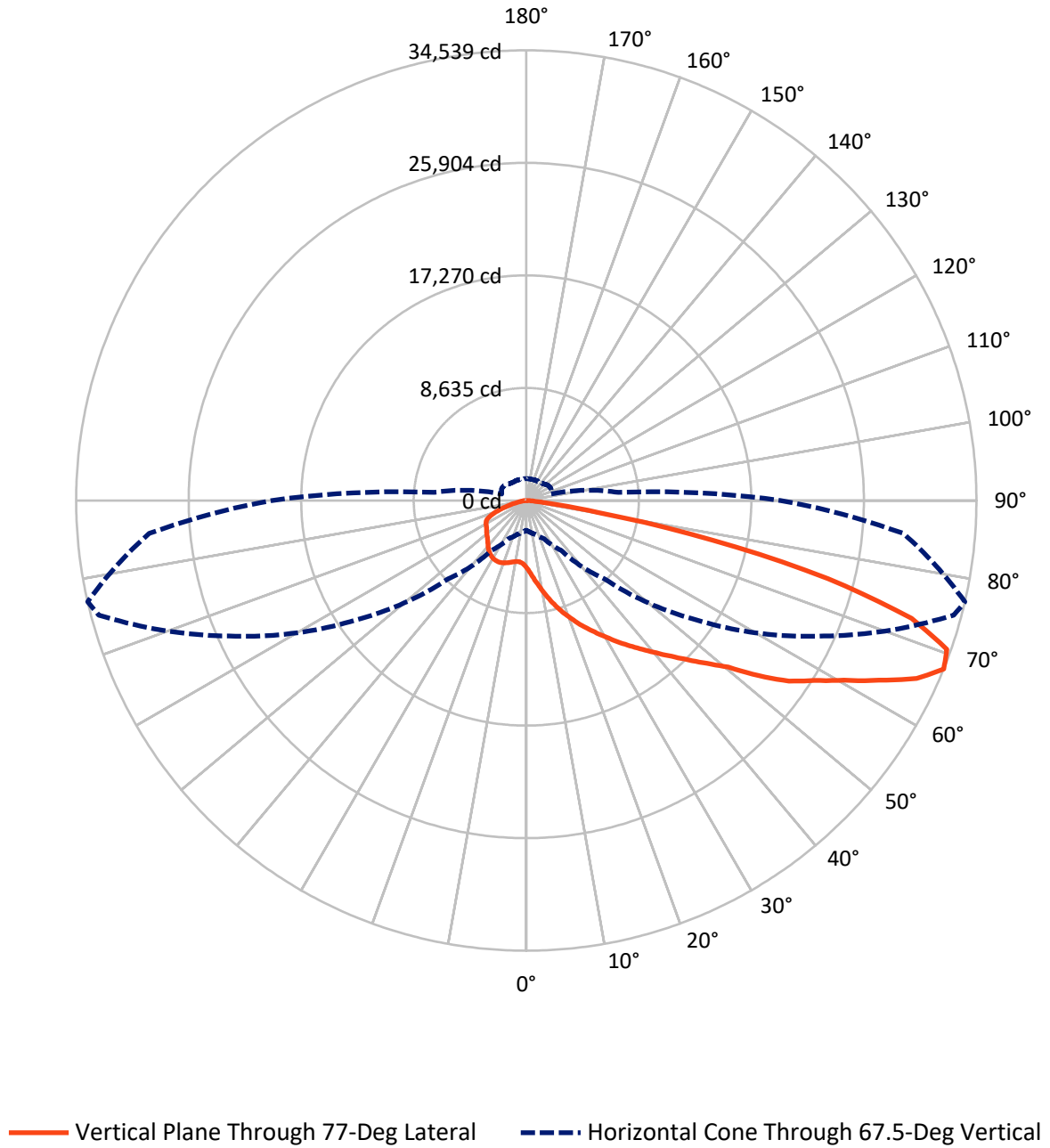
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8328.5	0.0	8328.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	35700.5	0.0	35700.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	44029.0	0.0	44029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.7	1.3
10°-20°	1989.3	4.5
20°-30°	3756.0	8.5
30°-40°	6050.8	13.7
40°-50°	8276.5	18.8
50°-60°	9335.9	21.2
60°-70°	8713.9	19.8
70°-80°	4776.7	10.8
80°-90°	576.2	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°	44029.0	100.0
0°-180°	44029.0	100.0

Coefficient of Utilization



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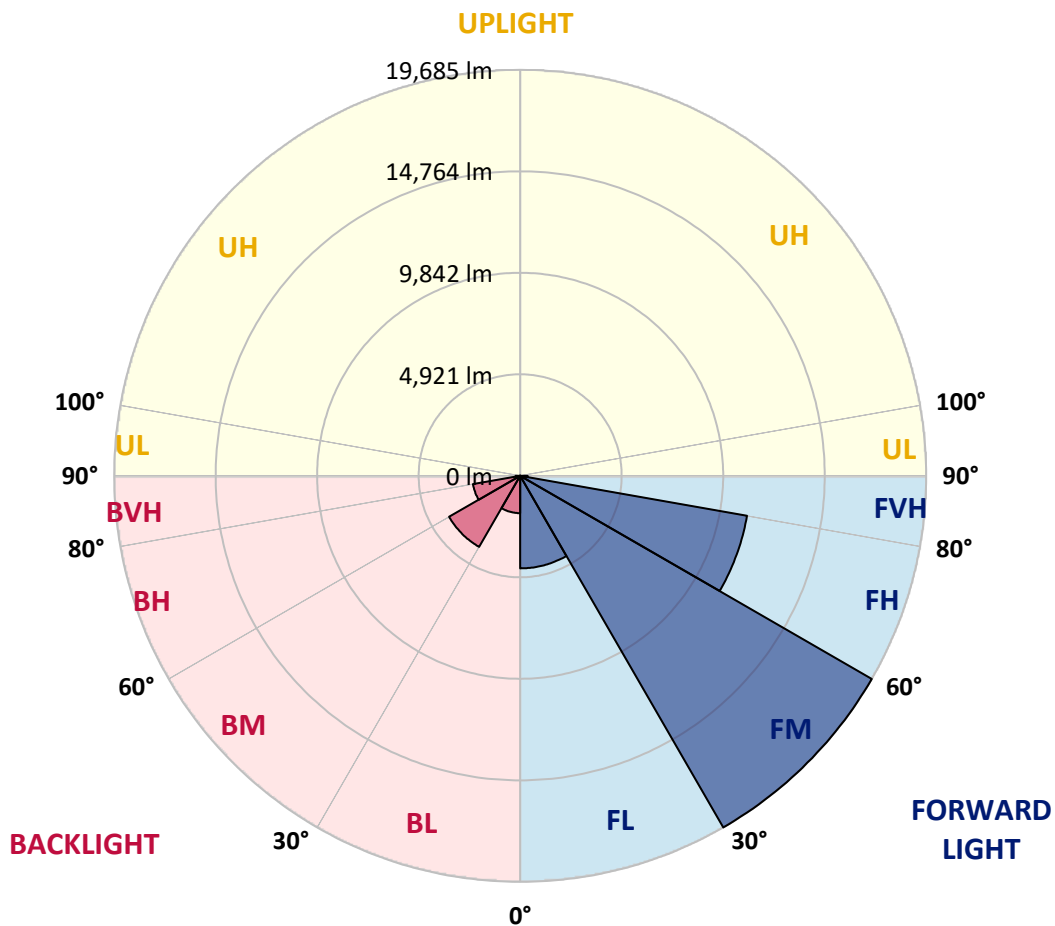
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4488.2	10.2			
FM (30°-60°)	19684.9	44.7			
FH (60°-80°)	11167.1	25.4			G4/12000
FVH (80°-90°)	360.3	0.8			G3/500
BL (0°-30°)	1810.8	4.1	B3/2500		
BM (30°-60°)	3978.3	9.0	B3/5000		
BH (60°-80°)	2323.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	215.9	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0
2.5°	6468.3	6513.7	6456.9	6456.9	6266.0	6166.0	5975.1	5829.6	5568.2	5522.8
5°	7645.5	7702.4	7622.8	7588.7	7363.7	7156.9	6836.4	6520.5	6054.6	6006.9
7.5°	8556.9	8629.6	8559.2	8522.8	8322.8	8091.0	7716.0	7275.1	6618.3	6525.1
10°	9300.1	9311.5	9288.7	9302.4	9145.6	8954.7	8570.6	8056.9	7236.4	7109.2
12.5°	9720.6	9772.8	9818.3	9900.1	9872.8	9754.7	9409.2	8795.6	7891.0	7727.4
15°	9918.3	10009.2	10111.5	10300.1	10452.4	10481.9	10218.3	9588.7	8556.9	8359.2
17.5°	9988.8	10075.1	10236.5	10509.2	10836.5	11056.9	10938.8	10359.2	9216.0	8988.7
20°	10345.6	10370.6	10468.3	10727.4	11081.9	11447.9	11536.5	11100.1	9868.3	9611.5
22.5°	11109.2	11059.2	11086.5	11204.7	11459.2	11813.8	12016.0	11754.7	10538.8	10243.3
25°	12370.6	12225.1	12079.7	11943.3	12072.9	12272.9	12502.4	12409.2	11241.0	10866.0
27.5°	13963.8	13786.5	13466.1	13018.3	12861.5	12932.0	13034.2	13016.1	11891.0	11511.5
30°	15532.0	15325.2	14943.4	14295.6	13882.0	13695.6	13618.3	13566.1	12597.9	12193.3
32.5°	16784.3	16620.6	16245.6	15520.6	14920.6	14602.4	14345.6	14159.3	13336.5	12932.0
35°	17879.8	17727.5	17297.9	16507.0	15854.7	15516.1	15179.7	14782.0	14104.7	13695.6
37.5°	18879.8	18727.5	18138.8	17316.1	16659.3	16425.2	16125.2	15450.2	14875.2	14488.8
40°	19511.6	19477.5	18927.5	17995.7	17313.8	17197.9	17097.9	16225.2	15729.7	15370.6
42.5°	19673.0	19748.0	19311.6	18545.7	17895.7	17802.5	18036.6	17102.5	16688.8	16345.6
45°	19284.3	19500.2	19213.9	18693.4	18309.3	18259.3	18868.4	18061.6	17750.2	17436.6
47.5°	18300.2	18666.1	18547.9	18475.2	18420.7	18636.6	19600.2	19079.8	18952.5	18679.8
50°	16313.8	17007.0	17213.8	17672.9	18200.2	18929.8	20266.1	20191.1	20357.1	20082.1
52.5°	12879.7	13834.3	15034.3	16184.3	17522.9	18832.0	20998.0	21786.6	22486.6	22336.6
55°	10631.9	11061.5	11984.2	14093.3	16209.3	18420.7	21327.5	23075.3	24600.3	24466.2
57.5°	8904.6	9288.7	9856.9	11618.3	14222.9	17486.6	21532.1	23861.6	26048.0	26034.4
60°	7052.4	7459.2	8041.0	9288.7	11902.4	15872.9	21486.6	24757.1	27895.8	28009.4
62.5°	4961.4	5409.2	6054.6	7218.3	9531.9	13782.0	20559.3	25404.8	30070.8	30379.9
65°	3261.4	3556.9	4043.2	5047.8	7102.4	11093.3	18788.9	25488.9	32398.1	32920.8
67.5°	2286.4	2400.0	2686.4	3231.9	4681.9	8506.9	15968.4	24618.5	33950.4	34539.0
70°	1784.1	1840.9	1986.4	2204.6	2940.9	5720.5	12236.5	22354.8	33618.6	34232.2
72.5°	1540.9	1595.5	1650.0	1677.3	1972.8	3531.9	8288.7	18691.1	30493.5	30909.5
75°	1397.7	1411.4	1456.8	1447.7	1504.6	2290.9	4784.1	13618.3	24059.4	23916.2
77.5°	1175.0	1193.2	1268.2	1256.8	1336.4	1565.9	2484.1	8788.7	15597.9	14625.2
80°	995.5	1004.6	1086.4	1072.7	1161.4	1134.1	1268.2	4479.6	6616.0	5604.6
82.5°	345.5	427.3	829.6	854.6	886.4	686.4	731.8	1827.3	2020.5	1547.7
85°	168.2	179.5	422.7	600.0	597.7	345.5	356.8	652.3	636.4	500.0
87.5°	27.3	34.1	50.0	234.1	186.4	90.9	122.7	127.3	131.8	113.6
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°
5166.0	0°	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0
5350.1	2.5°	5222.8	5109.2	4870.5	4650.1	4477.3	4311.4	4218.2	4138.7	4093.2	4084.1
5600.1	5°	5363.7	5129.6	4695.5	4329.6	4091.0	3913.7	3820.5	3761.4	3731.9	3713.7
5936.4	7.5°	5566.0	5222.8	4604.6	4188.7	3938.7	3811.4	3763.7	3754.6	3752.3	3754.6
6343.3	10°	5845.5	5375.1	4595.5	4154.6	3945.5	3875.0	3872.8	3875.0	3884.1	3886.4
6786.4	12.5°	6147.8	5531.9	4631.9	4184.1	4031.9	3993.2	3986.4	3984.1	3991.0	3995.5
7234.2	15°	6477.3	5738.7	4693.2	4247.8	4127.3	4086.4	4079.6	4066.0	4063.7	4061.4
7704.6	17.5°	6816.0	5943.3	4761.4	4316.0	4188.7	4131.9	4106.9	4075.0	4050.0	4043.2
8191.0	20°	7159.2	6145.5	4809.1	4350.1	4193.2	4113.7	4063.7	4009.1	3966.0	3941.0
8681.9	22.5°	7525.1	6356.9	4838.7	4341.0	4152.3	4043.2	3952.3	3888.7	3822.8	3779.6
9177.4	25°	7881.9	6541.0	4836.4	4293.2	4072.8	3934.1	3818.2	3736.4	3645.5	3600.0
9688.7	27.5°	8225.1	6706.9	4779.6	4209.1	3959.1	3804.6	3666.0	3568.2	3479.6	3436.4
10204.7	30°	8579.6	6845.5	4691.0	4086.4	3825.0	3654.6	3502.3	3418.2	3338.7	3297.8
10750.1	32.5°	8931.9	6972.8	4566.0	3934.1	3670.5	3506.9	3356.9	3279.6	3231.9	3231.9
11336.5	35°	9304.7	7061.4	4400.1	3756.9	3506.9	3350.0	3231.9	3186.4	3181.9	3154.6
11957.0	37.5°	9697.8	7118.3	4197.8	3575.0	3345.5	3197.8	3161.4	3106.9	3061.4	3002.3
12638.8	40°	10111.5	7175.1	3954.6	3386.4	3175.0	3093.2	3077.3	3004.6	2875.0	2729.6
13411.5	42.5°	10613.8	7213.7	3702.3	3197.8	2995.5	2968.2	2990.9	2865.9	2659.1	2550.0
14343.3	45°	11195.6	7277.4	3470.5	3011.4	2811.4	2811.4	2906.9	2743.2	2572.8	2504.6
15407.0	47.5°	11950.1	7425.1	3254.6	2806.9	2640.9	2686.4	2720.5	2595.5	2500.0	2415.9
16702.5	50°	13041.1	7779.6	3031.9	2600.0	2511.4	2602.3	2554.6	2481.8	2370.5	2302.3
18761.6	52.5°	14395.6	7988.7	2834.1	2413.7	2400.0	2490.9	2422.8	2354.6	2270.5	2179.6
20323.0	55°	15318.4	8027.4	2668.2	2277.3	2325.0	2315.9	2290.9	2229.6	2184.1	2063.7
21863.9	57.5°	16350.2	8104.6	2531.8	2195.5	2277.3	2177.3	2168.2	2115.9	2056.8	1975.0
23743.5	60°	17584.3	8225.1	2413.7	2163.7	2236.4	2086.4	2040.9	2020.5	1961.4	1920.5
26004.8	62.5°	18929.8	8334.2	2293.2	2168.2	2188.7	1997.8	1929.6	1922.7	1886.4	1872.7
28127.6	65°	19848.0	8036.5	2143.2	2163.7	2113.7	1906.8	1820.5	1818.2	1788.7	1784.1
29048.1	67.5°	19527.5	7093.3	1940.9	2100.0	2036.4	1815.9	1720.5	1711.4	1672.7	1675.0
28086.7	70°	17922.9	5747.8	1661.4	1943.2	1940.9	1734.1	1615.9	1586.4	1534.1	1543.2
24420.7	72.5°	14913.8	4259.1	1286.4	1681.8	1788.7	1659.1	1495.5	1447.7	1381.8	1390.9
18027.5	75°	10770.6	2895.5	936.4	1279.6	1556.8	1570.5	1377.3	1295.5	1215.9	1229.6
10034.2	77.5°	5511.4	1640.9	688.6	881.8	1222.7	1427.3	1270.5	1161.4	1143.2	1270.5
2893.2	80°	1797.7	822.7	477.3	618.2	802.3	1168.2	1113.6	988.6	984.1	1013.6
606.8	82.5°	536.4	347.7	306.8	406.8	443.2	895.5	961.4	747.7	643.2	677.3
202.3	85°	184.1	168.2	175.0	202.3	211.4	525.0	672.7	495.5	468.2	515.9
45.5	87.5°	43.2	59.1	50.0	45.5	45.5	127.3	261.4	206.8	286.4	190.9
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°
5166.0
4084.1
3711.4
3761.4
3888.7
3997.8
4059.1
4050.0
3950.0
3781.9
3600.0
3434.1
3295.5
3234.1
3147.8
2993.2
2709.1
2552.3
2515.9
2413.7
2295.5
2161.4
2065.9
1947.8
1931.8
1872.7
1781.8
1675.0
1552.3
1388.7
1234.1
1252.3
870.5
700.0
509.1
184.1
0.0

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