

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: P954811

Luminaire Tested: **GALN-SB7D-950-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7D-950-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

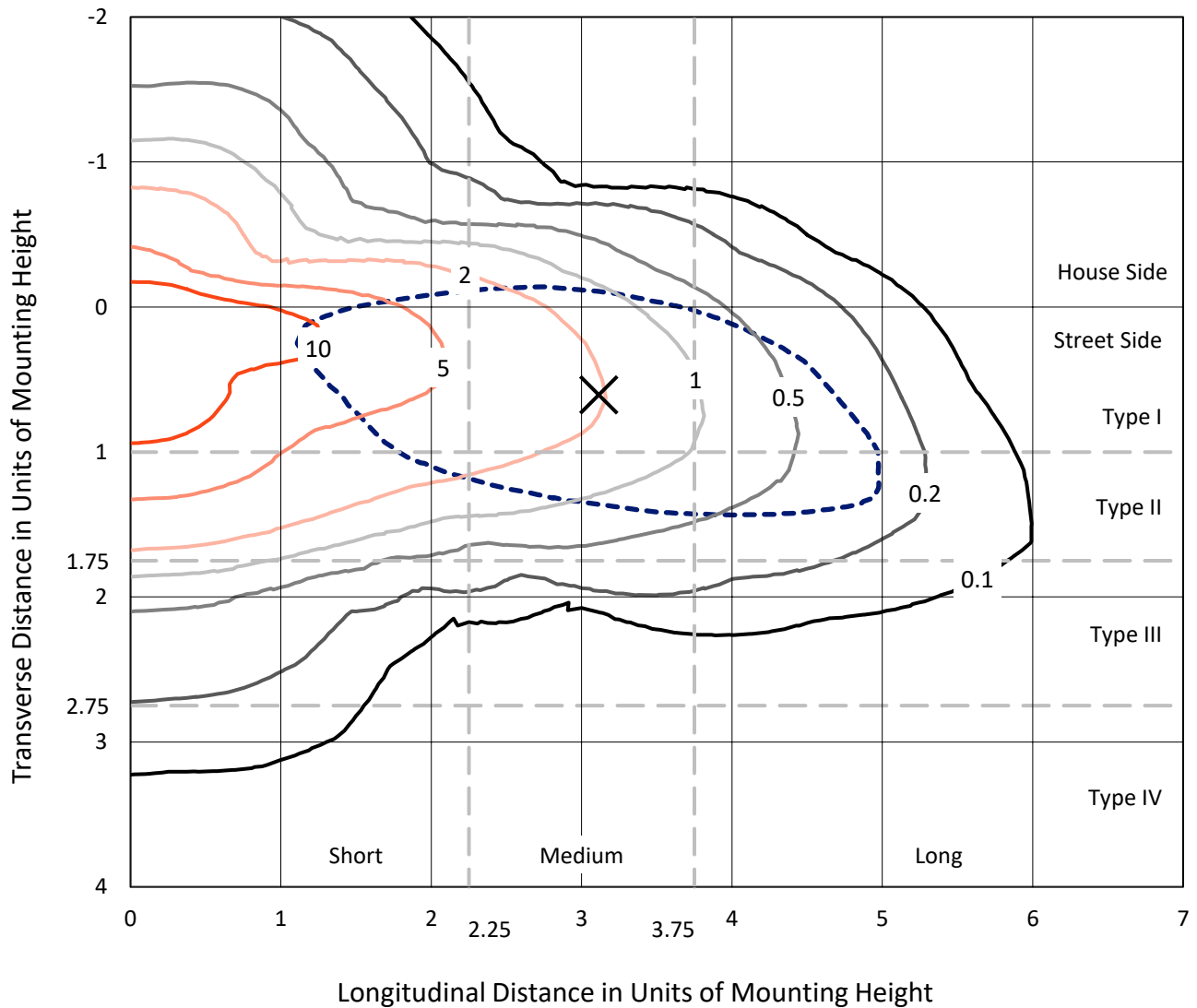
Lumens per Lamp: N/A  
Luminaire Lumens: 50039 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

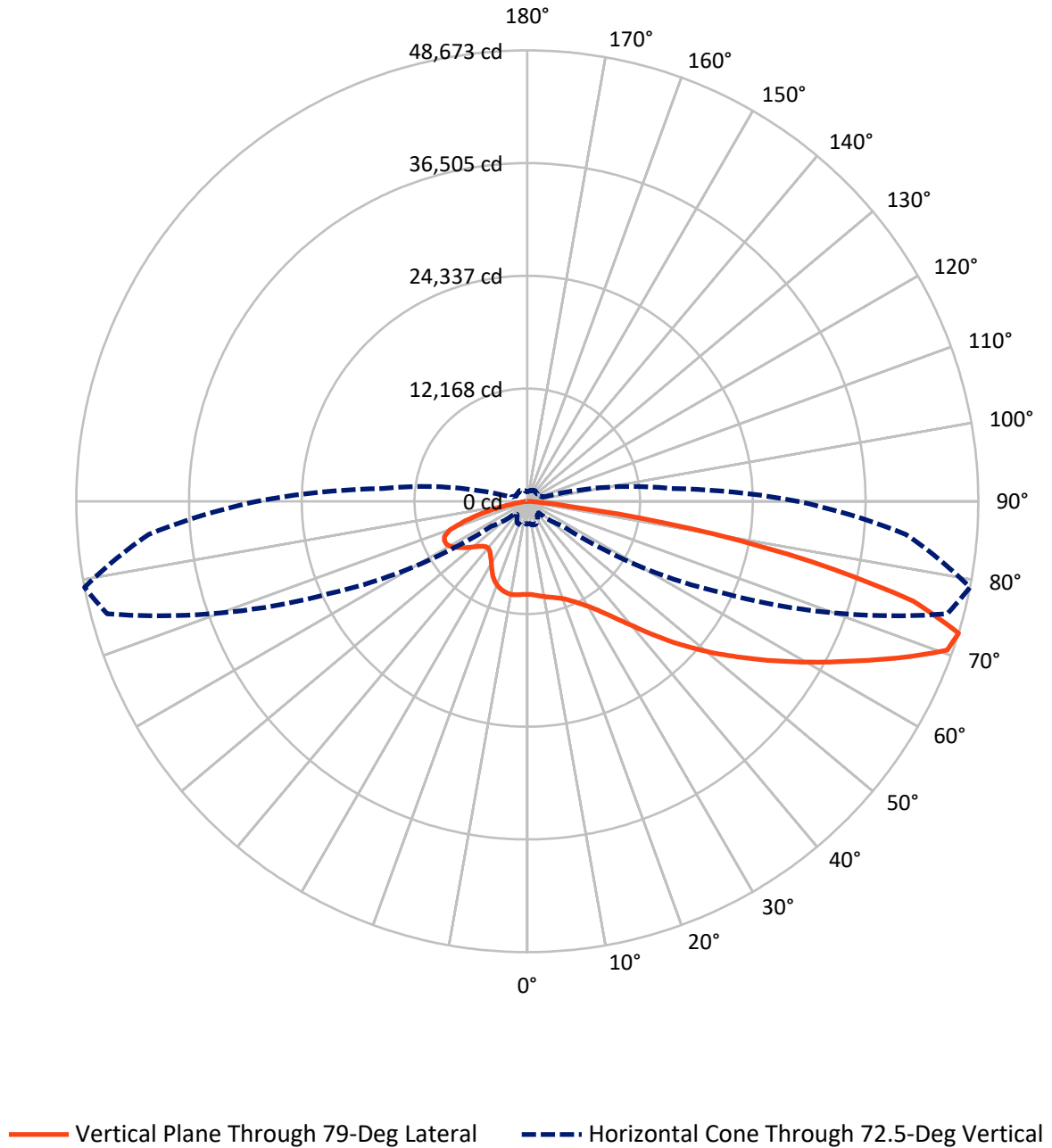
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	11011.3	0.0	11011.3
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	39027.7	0.0	39027.7
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	50039.0	0.0	50039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	911.8	1.8
10°-20°	2383.9	4.8
20°-30°	3846.6	7.7
30°-40°	5773.2	11.5
40°-50°	8189.5	16.4
50°-60°	10342.3	20.7
60°-70°	10504.0	21.0
70°-80°	7159.0	14.3
80°-90°	928.8	1.9
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°	50039.0	100.0
0°-180°	50039.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P954811

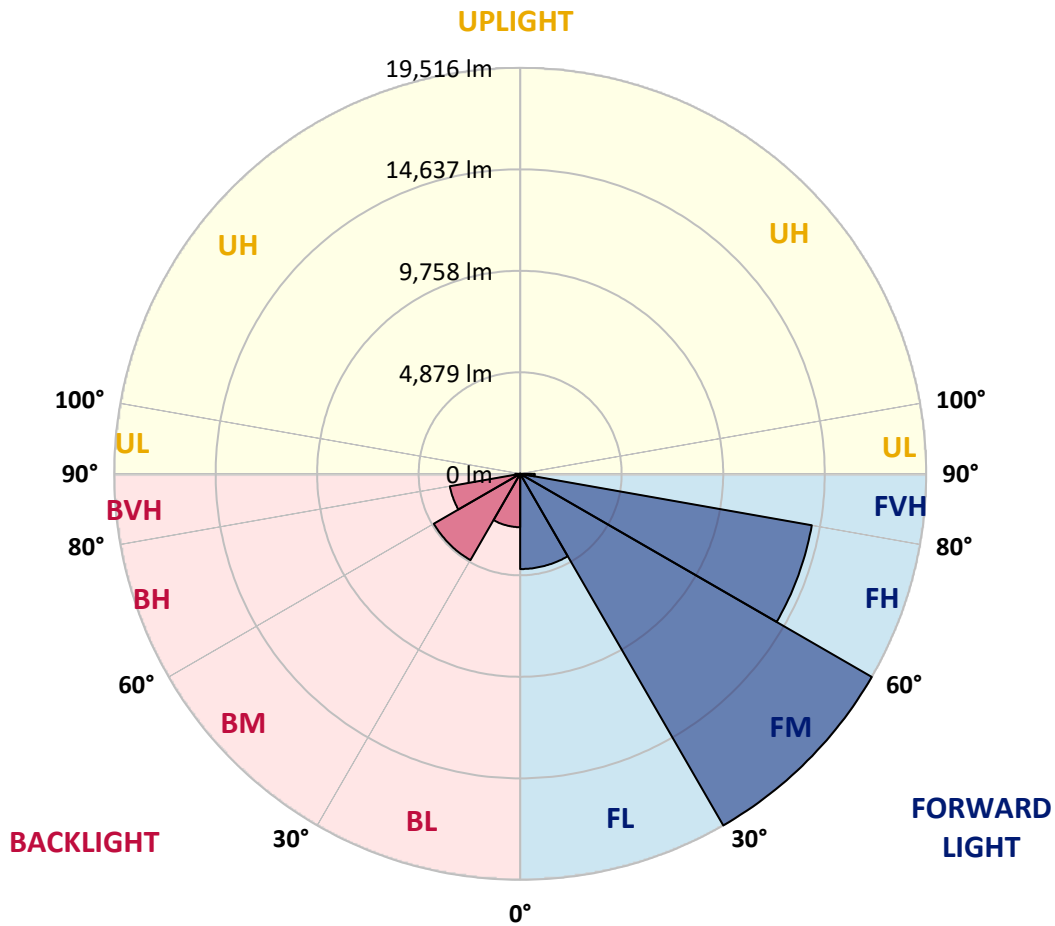
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4577.4	9.1			
FM (30°-60°)	19516.2	39.0			
FH (60°-80°)	14234.4	28.4			G5
FVH (80°-90°)	699.7	1.4			G4/750
BL (0°-30°)	2564.9	5.1	B4/5000		
BM (30°-60°)	4788.8	9.6	B3/5000		
BH (60°-80°)	3428.6	6.9	B4/5000		G4/5000
BVH (80°-90°)	229.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9
2.5°	10050.1	10002.5	10031.6	10021.0	10034.3	10050.1	10055.4	10063.4	10089.9	10087.2
5°	10029.0	9981.3	10021.0	10007.8	10042.2	10079.3	10111.0	10140.1	10182.5	10201.0
7.5°	9984.0	9952.2	9991.9	10031.6	10095.1	10150.7	10195.7	10261.9	10322.8	10333.4
10°	9721.9	9698.1	9790.8	9894.0	10068.7	10219.5	10317.5	10394.2	10460.4	10471.0
12.5°	9449.3	9420.2	9523.4	9663.7	9946.9	10219.5	10426.0	10526.6	10584.8	10619.2
15°	9404.3	9380.5	9438.7	9560.5	9796.0	10148.1	10500.1	10685.4	10735.7	10775.4
17.5°	9621.4	9576.4	9600.2	9642.5	9780.2	10081.9	10558.3	10865.4	10942.1	10984.5
20°	10124.3	10060.7	10023.7	9939.0	9915.2	10092.5	10553.1	11082.4	11183.0	11235.9
22.5°	10793.9	10751.6	10672.2	10457.8	10224.8	10222.2	10653.6	11360.3	11548.3	11598.6
25°	11603.9	11540.3	11439.8	11148.6	10701.3	10478.9	10823.0	11715.0	12030.0	12043.2
27.5°	12535.6	12440.3	12302.6	11918.8	11315.3	10881.3	11082.4	12122.6	12583.2	12577.9
30°	13517.5	13422.3	13276.7	12810.8	12051.2	11423.9	11442.4	12562.0	13239.6	13210.5
32.5°	14234.8	14163.4	14134.3	13774.3	12898.2	12064.4	11855.3	13049.0	14049.6	14023.1
35°	14785.4	14692.7	14727.2	14544.5	13821.9	12781.7	12360.9	13628.7	15034.2	15031.5
37.5°	15330.6	15248.6	15277.7	15156.0	14676.9	13692.2	12977.6	14338.1	16254.4	16312.6
40°	15828.3	15740.9	15857.4	15743.6	15341.2	14661.0	13679.0	15140.1	17667.8	17779.0
42.5°	16127.3	16058.5	16251.8	16254.4	15918.2	15478.9	14449.2	16024.1	19303.6	19552.4
45°	16230.6	16206.8	16497.9	16558.8	16429.1	15952.7	15142.7	16987.6	21066.4	21511.1
47.5°	16119.4	16074.4	16476.7	16701.7	16804.9	16175.0	15717.1	18030.4	22866.3	23517.4
50°	15558.3	15470.9	16069.1	16542.9	16910.8	16320.6	16296.7	19234.8	24912.3	25624.3
52.5°	14549.8	14483.6	15163.9	15987.1	16677.9	16392.0	16947.9	20550.3	26855.1	27776.2
55°	13260.8	13173.4	13922.5	14997.1	16098.2	16368.2	17599.0	22021.9	29147.3	30081.6
57.5°	11217.4	11042.7	11990.3	13260.8	15153.3	16339.1	18276.6	23485.6	31476.5	32596.1
60°	8237.0	7977.7	9139.6	10645.7	13305.8	16055.9	19115.7	25126.7	34271.6	35280.1
62.5°	4796.1	4645.2	5404.9	6810.4	10029.0	14388.4	19586.8	27035.1	37019.1	38077.8
65°	3724.1	3681.8	3748.0	3856.5	5582.2	10772.7	18133.7	28895.8	40512.9	41254.0
67.5°	3406.5	3374.8	3403.9	3200.1	2832.1	6000.4	14346.0	29367.0	44255.6	44705.6
70°	3028.0	2991.0	3086.2	2911.6	2228.7	2728.9	9269.3	27657.1	47233.3	48077.7
72.5°	2466.9	2424.5	2646.9	2567.5	1876.6	1752.2	4655.8	23594.2	46921.0	48673.2
75°	1895.2	1871.3	2136.0	2202.2	1529.9	1379.0	2234.0	17538.1	41291.1	43056.6
77.5°	1471.7	1453.1	1588.1	1829.0	1233.4	1069.3	1373.7	11124.8	31116.5	31426.2
80°	1103.7	1050.8	1175.2	1416.1	960.8	780.8	931.7	6487.5	19668.9	17829.3
82.5°	690.8	664.4	767.6	944.9	677.6	537.3	606.1	3583.9	7882.4	4642.6
85°	394.4	383.8	418.2	540.0	367.9	309.7	346.7	1582.8	1439.9	989.9
87.5°	158.8	153.5	190.6	240.9	135.0	113.8	121.8	381.1	317.6	293.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954811  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10044.9	0°	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9	10044.9
10084.6	2.5°	10074.0	10074.0	10036.9	9978.7	9912.5	9870.2	9801.3	9782.8	9711.3	9690.2
10174.5	5°	10195.7	10174.5	10060.7	9896.6	9671.6	9465.2	9237.6	9094.6	8893.5	8822.0
10351.9	7.5°	10349.2	10291.0	10095.1	9735.2	9264.0	8800.8	8319.1	7953.8	7604.4	7480.0
10497.5	10°	10489.5	10407.5	10074.0	9444.0	8628.8	7826.8	7059.2	6521.9	6114.3	5947.5
10658.9	12.5°	10629.8	10478.9	9933.7	8959.6	7726.2	6638.3	5820.5	5402.3	5150.8	4949.6
10791.3	15°	10762.2	10550.4	9716.6	8311.2	6736.3	5632.5	5029.0	4695.5	4494.4	4362.0
10984.5	17.5°	10915.7	10611.3	9391.1	7488.0	5794.0	4936.4	4444.1	4242.9	4203.2	4187.3
11249.2	20°	11130.1	10666.9	8962.3	6566.9	5100.5	4380.6	4126.5	4107.9	4105.3	4097.3
11566.8	22.5°	11360.3	10733.0	8395.9	5730.5	4510.3	4033.8	3988.8	3951.8	3927.9	3925.3
11950.6	25°	11633.0	10754.2	7686.5	5044.9	4007.4	3869.7	3816.8	3761.2	3745.3	3745.3
12387.3	27.5°	11897.7	10682.7	6860.7	4449.4	3724.1	3718.8	3650.0	3631.5	3628.9	3636.8
12884.9	30°	12162.3	10547.8	6040.1	3898.8	3560.0	3560.0	3536.2	3549.4	3560.0	3586.5
13567.8	32.5°	12519.7	10404.8	5354.6	3491.2	3417.1	3390.6	3414.5	3440.9	3451.5	3485.9
14465.1	35°	13043.8	10304.2	4809.4	3268.9	3268.9	3234.5	3247.7	3242.4	3218.6	3202.7
15550.3	37.5°	13737.2	10299.0	4359.4	3165.7	3144.5	3139.2	3141.8	3107.4	3014.8	2903.6
16863.2	40°	14571.0	10441.9	4012.6	3094.2	3078.3	3110.1	3094.2	3001.5	2747.4	2554.2
18477.8	42.5°	15690.6	10849.5	3790.3	3006.8	3054.5	3094.2	3030.7	2710.4	2538.3	2408.6
20317.3	45°	17008.8	11511.2	3676.5	2914.2	3009.5	3057.1	2750.1	2609.8	2472.2	2316.0
22323.7	47.5°	18501.6	12345.0	3650.0	2826.9	2908.9	2938.0	2631.0	2567.5	2411.3	2241.9
24340.6	50°	20126.8	13332.3	3721.5	2723.6	2763.3	2662.7	2591.3	2533.1	2371.6	2204.8
26407.8	52.5°	21807.5	14420.1	3864.4	2583.3	2617.7	2506.6	2575.4	2525.1	2347.8	2122.8
28543.8	55°	23459.2	15515.9	4002.1	2419.2	2469.5	2366.3	2530.4	2493.3	2239.2	1985.1
30822.7	57.5°	25137.3	16606.4	4137.1	2273.7	2326.6	2231.3	2458.9	2408.6	2117.5	1858.1
33310.8	60°	26881.6	17665.2	4200.6	2133.4	2170.4	2106.9	2350.4	2263.1	1979.9	1728.4
35756.5	62.5°	28514.7	18546.6	4097.3	1993.1	2016.9	1990.4	2207.5	2091.0	1842.2	1582.8
38305.4	65°	30153.1	19070.7	3779.7	1855.5	1860.7	1847.5	2006.3	1905.7	1680.8	1455.8
40536.7	67.5°	31638.0	19364.5	3274.2	1707.2	1694.0	1688.7	1818.4	1704.6	1524.6	1328.7
42233.4	70°	31953.0	18618.0	2501.3	1532.5	1532.5	1519.3	1611.9	1495.5	1352.5	1193.7
41018.5	72.5°	29184.3	15661.5	1776.0	1334.0	1355.2	1328.7	1405.5	1307.6	1177.9	1072.0
35351.5	75°	23533.3	11484.7	1291.7	1130.2	1167.3	1122.3	1193.7	1124.9	1013.7	1011.1
24361.7	77.5°	16169.7	7101.5	937.0	931.7	958.2	899.9	982.0	944.9	844.4	799.4
10603.3	80°	6900.4	2832.1	682.9	719.9	719.9	667.0	762.3	772.9	685.5	664.4
2046.0	82.5°	1373.7	804.6	479.1	495.0	465.8	450.0	540.0	598.2	825.8	918.5
616.7	85°	412.9	296.4	288.5	270.0	238.2	240.9	317.6	600.8	741.1	423.5
203.8	87.5°	113.8	74.1	76.8	60.9	50.3	66.2	108.5	455.3	248.8	105.9
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°
10044.9
9724.6
8874.9
7495.9
5984.6
5015.8
4385.9
4197.9
4123.8
3954.4
3761.2
3658.0
3605.0
3515.0
3239.8
2906.3
2548.9
2403.4
2305.4
2228.7
2186.3
2106.9
1971.9
1852.8
1720.5
1580.2
1439.9
1312.8
1188.4
1040.2
910.5
749.1
664.4
921.1
365.3
90.0
0.0

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