

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: P944559

Luminaire Tested: **GALN-SB9C-760-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-760-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71329 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

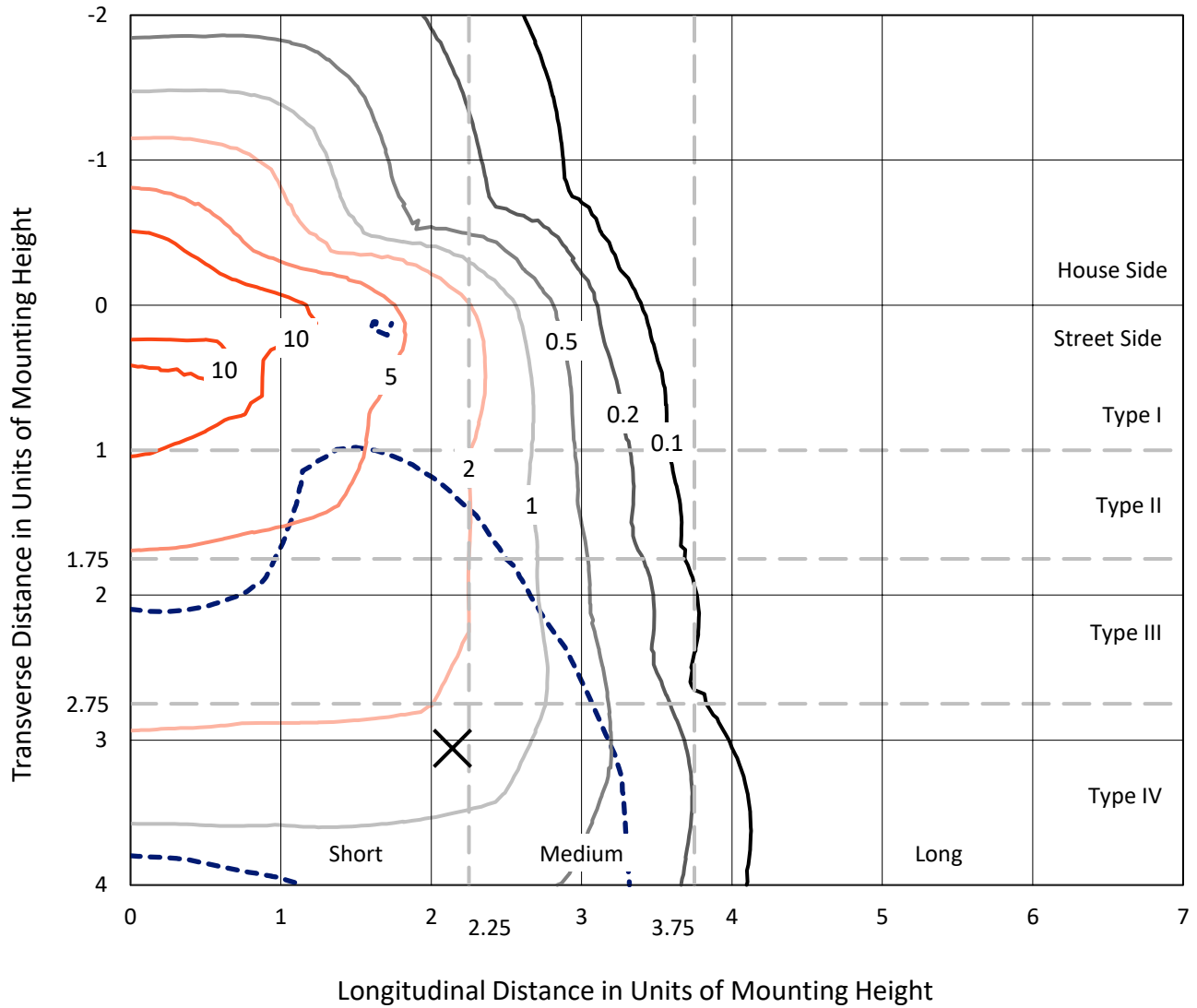
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

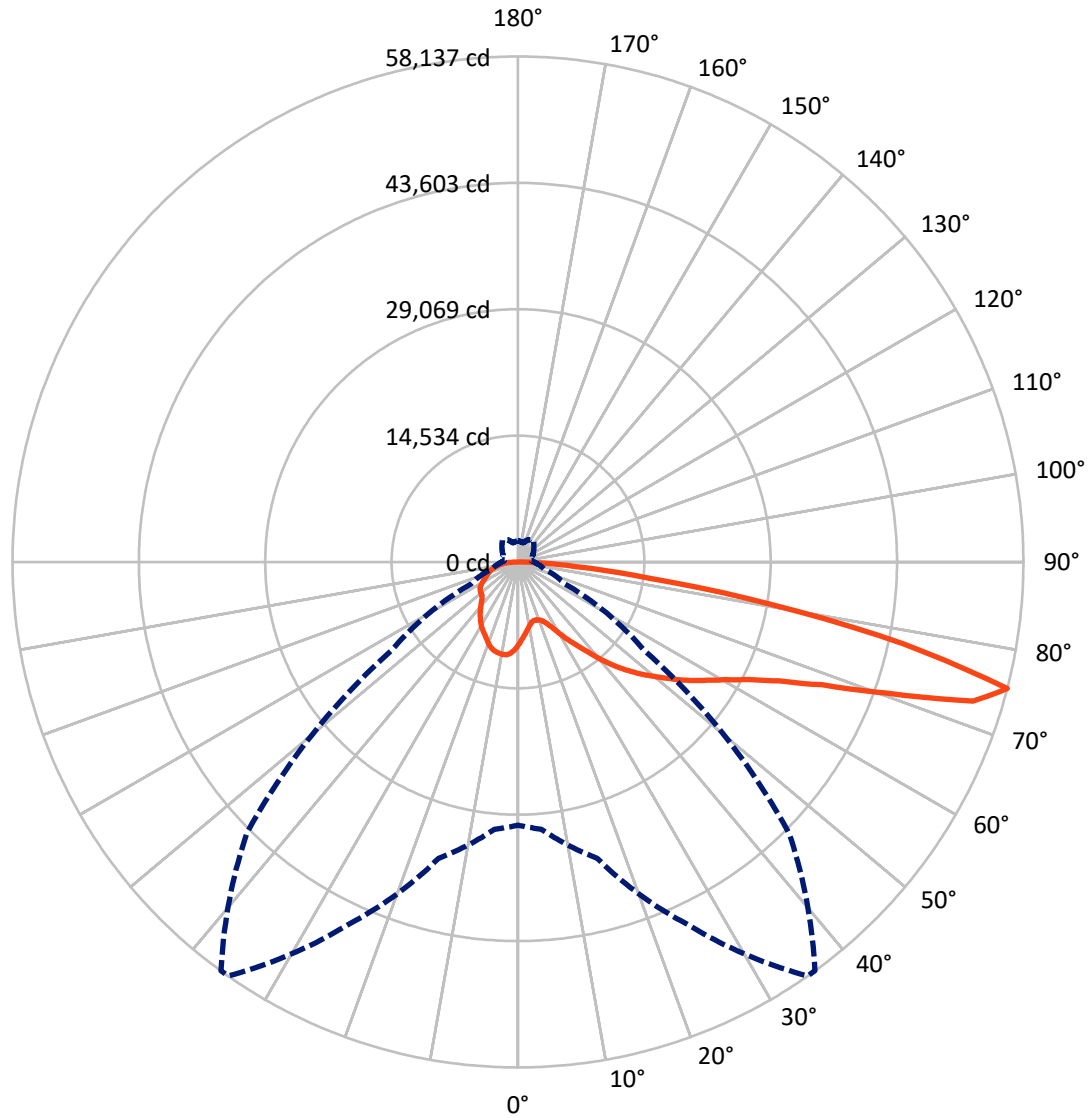
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16974.5	0.0	16974.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	54354.5	0.0	54354.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	71329.0	0.0	71329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.9	1.3
10°-20°	2595.8	3.6
20°-30°	4359.1	6.1
30°-40°	6774.6	9.5
40°-50°	10055.3	14.1
50°-60°	13881.9	19.5
60°-70°	16841.9	23.6
70°-80°	13918.6	19.5
80°-90°	2001.9	2.8
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°	71329.0	100.0
0°-180°	71329.0	100.0

Coefficient of Utilization



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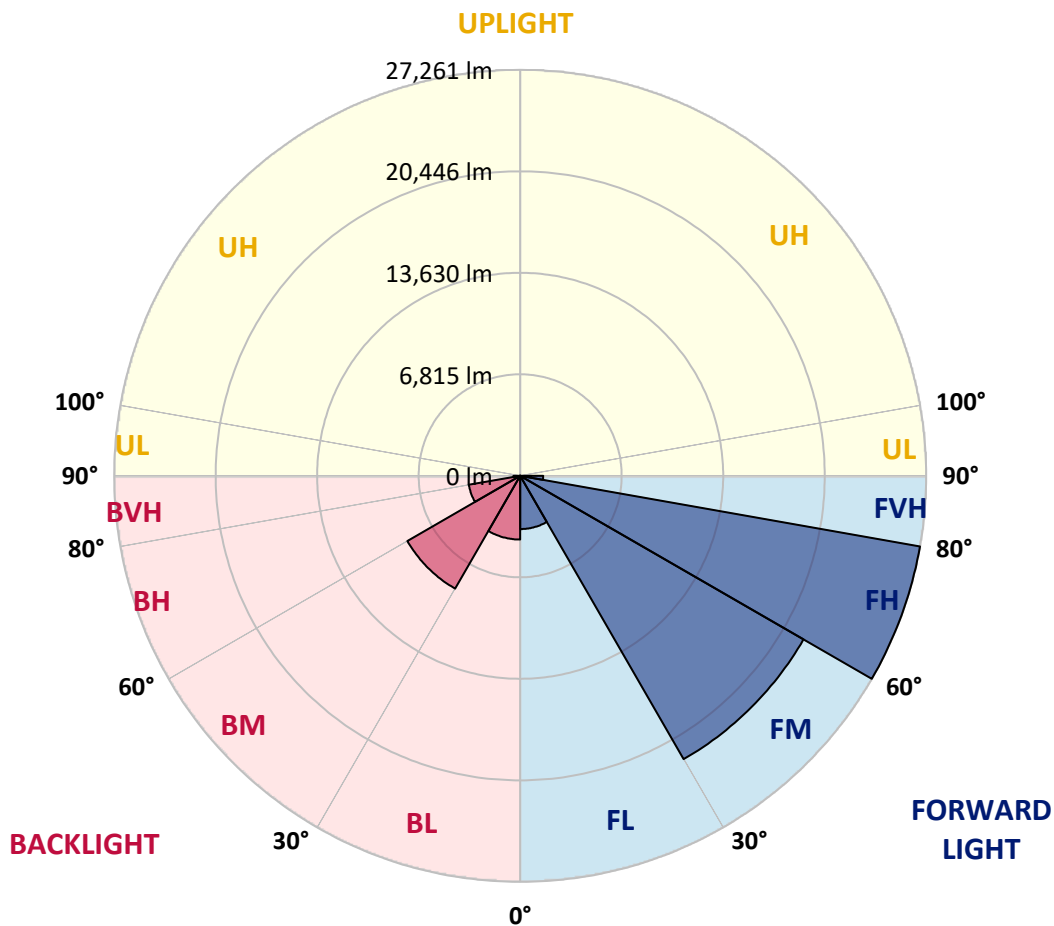
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3577.0	5.0			
FM (30°-60°)	21965.5	30.8			
FH (60°-80°)	27260.9	38.2			G5
FVH (80°-90°)	1551.1	2.2			G5
BL (0°-30°)	4277.8	6.0	B4/5000		
BM (30°-60°)	8746.3	12.3	B5		
BH (60°-80°)	3499.6	4.9	B4/5000		G4/5000
BVH (80°-90°)	450.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1
2.5°	8764.7	8818.7	8841.8	8830.3	8888.1	8880.4	8961.4	9061.6	9200.4	9335.4
5°	8089.9	8147.8	8197.9	8244.2	8356.0	8390.7	8517.9	8710.7	8965.2	9223.6
7.5°	7461.4	7511.5	7588.6	7673.5	7862.4	7897.1	8109.2	8410.0	8764.7	9142.6
10°	6948.5	6998.7	7079.6	7176.0	7411.3	7453.7	7723.6	8124.6	8587.3	9065.5
12.5°	6728.7	6744.2	6790.4	6886.8	7091.2	7118.2	7415.1	7874.0	8413.8	9007.6
15°	6717.2	6748.0	6751.9	6802.0	6971.7	6983.2	7257.0	7712.0	8305.9	8996.1
17.5°	6832.9	6856.0	6821.3	6852.1	6994.8	7014.1	7230.0	7634.9	8271.1	9046.2
20°	7141.3	7160.6	7056.5	7014.1	7118.2	7133.6	7345.7	7685.0	8305.9	9150.3
22.5°	7796.9	7808.4	7553.9	7380.4	7388.1	7395.8	7580.9	7889.4	8440.8	9339.3
25°	8818.7	8811.0	8406.1	8070.6	7877.8	7835.4	7958.8	8221.0	8668.3	9589.9
27.5°	10014.1	9956.2	9551.3	9050.1	8629.8	8568.1	8541.1	8652.9	8992.2	9921.5
30°	11363.7	11309.7	10874.0	10218.4	9636.2	9535.9	9281.4	9223.6	9474.2	10372.7
32.5°	12844.4	12809.7	12289.1	11494.8	10715.9	10600.2	10172.2	10017.9	10214.6	11055.2
35°	14086.0	14055.2	13623.3	12805.8	11853.4	11710.7	11275.0	11101.5	11201.7	11930.5
37.5°	15208.1	15192.7	14822.5	14178.6	13195.3	13021.8	12532.0	12474.2	12454.9	13083.5
40°	16249.2	16210.7	15825.1	15485.7	14757.0	14598.9	14167.0	14116.9	13970.3	14502.5
42.5°	17402.2	17301.9	16742.8	16584.7	16388.1	16257.0	15998.6	16006.3	15682.4	16102.7
45°	18343.1	18285.2	17710.7	17618.1	17830.2	17776.2	17999.9	18057.7	17429.2	17780.1
47.5°	19353.3	19299.3	18813.5	18747.9	19322.5	19337.9	20128.4	20147.7	19133.5	19523.0
50°	20598.8	20521.7	20039.7	20120.7	20764.6	20822.5	22268.5	22137.4	20702.9	21292.9
52.5°	21420.2	21466.4	21362.3	21493.4	22372.6	22426.6	24373.9	24038.4	22256.9	23039.7
55°	22025.5	22118.1	22442.0	22742.8	24069.2	24123.2	26359.7	25846.9	23544.8	24659.2
57.5°	22804.5	22673.4	23278.7	23864.9	25681.0	25823.7	28291.6	27589.8	24686.2	26055.1
60°	23922.7	23830.2	24300.6	25168.2	27485.7	27713.2	30335.3	29159.2	25522.9	27161.8
62.5°	26190.0	25958.7	26031.9	26799.3	29760.7	30061.5	32641.1	30528.1	25939.4	27593.6
65°	29579.5	29182.3	28812.1	29344.3	32965.1	33262.0	35244.0	31603.9	25785.2	26756.9
67.5°	33848.1	33454.8	32999.8	33501.0	37684.8	37920.0	38456.0	32209.3	24570.5	23533.2
70°	37368.6	37222.1	37765.8	39828.8	45223.3	45231.0	42574.2	31708.0	21242.8	16685.0
72.5°	36902.0	36813.4	39678.4	46056.2	54724.5	54520.2	46472.7	27913.7	14309.7	7526.9
75°	30273.6	30848.1	35286.4	45944.4	58137.1	58110.1	44085.8	17745.4	5919.0	3119.5
77.5°	16233.8	17143.8	22908.6	33921.3	45385.3	46067.8	30994.6	6208.2	2541.1	1997.4
80°	5294.3	6088.6	9131.0	17271.1	29490.8	29363.5	13284.0	2437.0	1739.1	1415.2
82.5°	2248.1	2340.6	4079.7	8155.5	15134.9	14899.6	4230.0	1399.7	1222.4	967.9
85°	879.2	983.3	1800.8	3771.2	6555.2	6412.5	1527.0	694.1	782.8	632.4
87.5°	289.2	350.9	644.0	1291.8	2039.8	1966.6	374.0	239.1	339.3	289.2
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°
9505.1	0°	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1	9505.1
9532.1	2.5°	9586.0	9647.7	9721.0	9829.0	9921.5	9998.6	10079.6	10129.7	10149.0	10206.9
9547.5	5°	9655.5	9790.4	9971.6	10149.0	10322.5	10426.7	10519.2	10565.5	10607.9	10638.7
9589.9	7.5°	9771.1	9944.7	10230.0	10461.4	10607.9	10692.7	10754.4	10739.0	10754.4	10762.1
9636.2	10°	9871.4	10114.3	10453.7	10673.4	10785.3	10789.1	10773.7	10719.7	10692.7	10696.6
9705.6	12.5°	9990.9	10260.9	10627.2	10812.3	10843.1	10758.3	10692.7	10600.2	10565.5	10550.1
9809.7	15°	10152.9	10461.4	10816.1	10885.5	10808.4	10700.4	10588.6	10438.2	10361.1	10299.4
9987.1	17.5°	10349.5	10688.9	10962.6	10912.5	10746.7	10569.3	10388.1	10160.6	10002.5	9936.9
10230.0	20°	10623.3	10927.9	11074.5	10854.7	10604.0	10334.1	10025.6	9748.0	9601.5	9535.9
10538.5	22.5°	10954.9	11248.0	11182.4	10754.4	10399.7	9967.8	9582.2	9377.8	9304.6	9258.3
10935.7	25°	11352.1	11602.7	11259.6	10607.9	10064.2	9481.9	9185.0	9119.5	9084.8	9050.1
11421.5	27.5°	11868.8	12003.8	11317.4	10392.0	9539.8	8965.2	8857.3	8868.8	8857.3	8799.4
12096.3	30°	12551.3	12524.3	11371.4	10041.1	8938.2	8498.7	8506.4	8556.5	8564.2	8525.6
13037.2	32.5°	13449.8	13176.0	11398.4	9586.0	8363.7	8089.9	8097.6	8151.6	8190.2	8124.6
14267.2	35°	14537.2	13935.6	11356.0	9015.4	7920.3	7700.5	7642.6	7658.0	7669.6	7607.9
15759.5	37.5°	15805.8	14787.8	11167.0	8383.0	7553.9	7318.7	7195.3	7091.2	7029.5	6971.7
17448.5	40°	17197.8	15717.1	10820.0	7766.0	7145.2	6913.8	6728.7	6532.1	6323.9	6246.7
19237.6	42.5°	18655.4	16673.4	10399.7	7176.0	6674.8	6485.8	6289.2	6003.8	5691.5	5533.4
21096.2	45°	20166.9	17652.8	9987.1	6593.8	6192.8	6111.8	5884.3	5541.1	5201.8	5001.2
22958.7	47.5°	21647.7	18578.3	9381.7	6007.7	5741.6	5830.3	5652.9	5336.7	4958.8	4642.6
24805.7	50°	23062.8	19445.9	8390.7	5413.8	5375.3	5745.5	5575.8	5120.8	4688.9	4284.0
26618.1	52.5°	24466.4	20147.7	7122.1	4874.0	5178.6	5722.3	5475.5	4974.3	4446.0	4021.8
28322.4	55°	25657.9	20510.1	5899.7	4411.3	4893.3	5525.7	5356.0	4800.7	4102.8	3651.6
29490.8	57.5°	26336.6	20217.1	4881.7	3956.3	4500.0	5201.8	5151.6	4430.6	3694.1	3347.0
29718.3	60°	26043.5	19029.4	4048.8	3559.1	4125.9	4850.9	4796.9	4064.2	3381.7	3054.0
28499.8	62.5°	24427.8	16765.9	3389.4	3212.1	3786.6	4492.3	4442.1	3782.7	3142.7	2826.5
25264.6	65°	21173.4	13638.7	2876.6	2922.9	3443.4	4060.4	4133.6	3547.5	2953.7	2645.2
19546.1	67.5°	16149.0	9879.1	2475.6	2672.2	3107.9	3636.2	3848.3	3377.9	2795.6	2502.6
11309.7	70°	9204.3	5610.5	2136.2	2429.3	2811.0	3242.9	3628.5	3242.9	2625.9	2383.0
4237.8	72.5°	3489.7	2575.8	1847.0	2186.4	2525.7	2911.3	3385.6	3030.8	2429.3	2248.1
2190.2	75°	1862.5	1569.4	1554.0	1901.0	2197.9	2587.4	3081.0	2822.6	2282.8	2375.3
1515.4	77.5°	1268.6	1110.5	1299.5	1627.2	1839.3	2228.8	2757.0	2506.4	1978.1	1970.4
1048.8	80°	879.2	786.6	1056.5	1311.0	1422.9	1874.0	2406.2	2151.7	1611.8	1503.8
647.8	82.5°	528.3	512.8	790.5	979.4	1006.4	1446.0	1993.6	1804.6	1318.8	1149.1
385.6	85°	289.2	304.6	505.1	574.5	586.1	1010.3	1561.7	1395.9	1014.1	852.2
138.8	87.5°	81.0	104.1	185.1	227.5	281.5	524.4	929.3	829.0	509.0	354.8
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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180°
9505.1
10203.0
10646.5
10773.7
10704.3
10542.3
10318.7
9940.8
9528.2
9266.0
9050.1
8811.0
8544.9
8155.5
7650.3
7010.2
6281.4
5552.7
4985.8
4607.9
4249.3
3975.5
3613.1
3300.7
3007.7
2776.3
2595.1
2456.3
2352.2
2217.2
2452.4
1816.2
1438.3
1156.8
859.9
354.8
0.0

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