

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: P943349

Luminaire Tested: **GALN-SB7D-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943349
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-SB7D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75674 lumens
Efficiency: N/A
Efficacy: 147.6 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

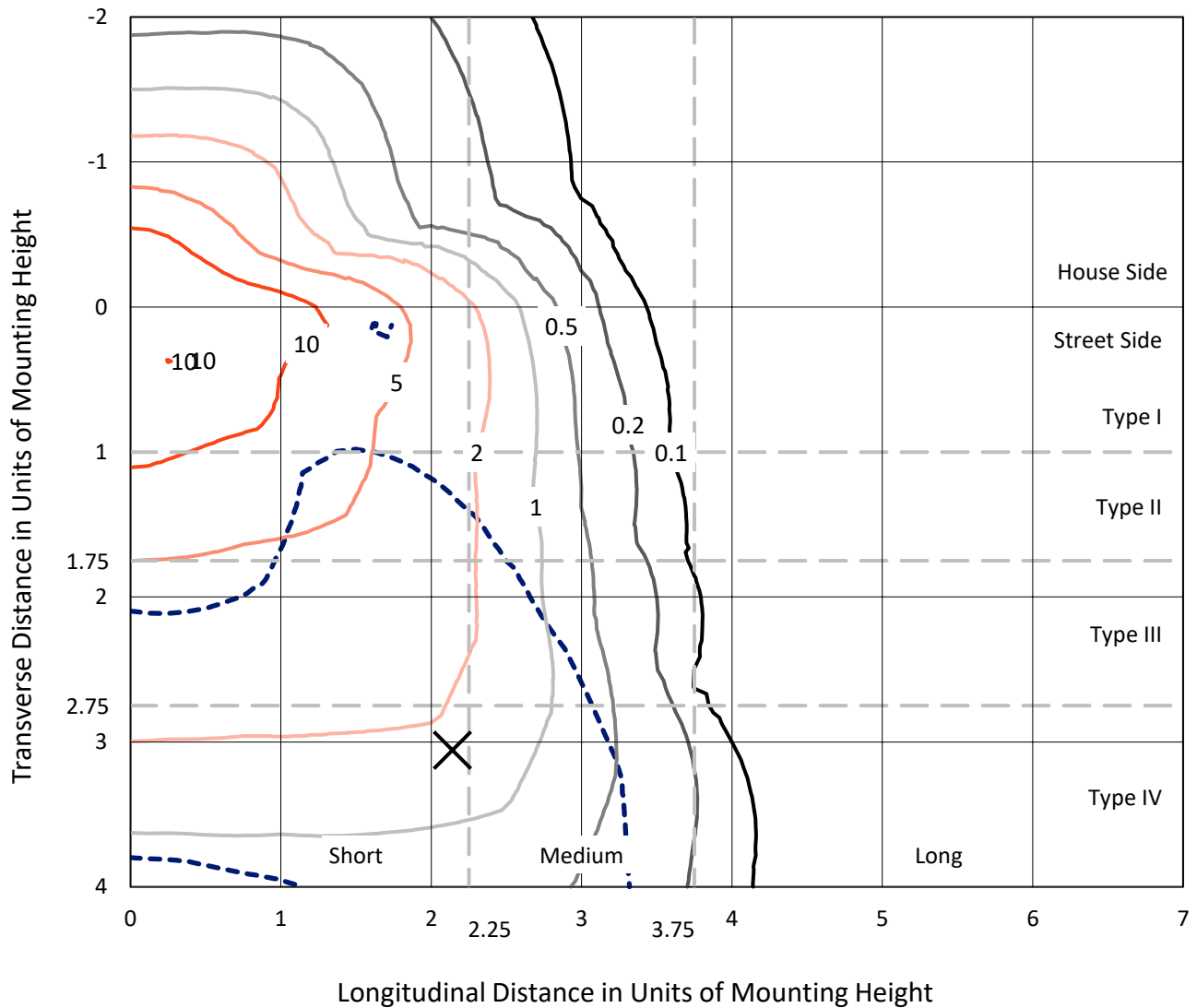
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

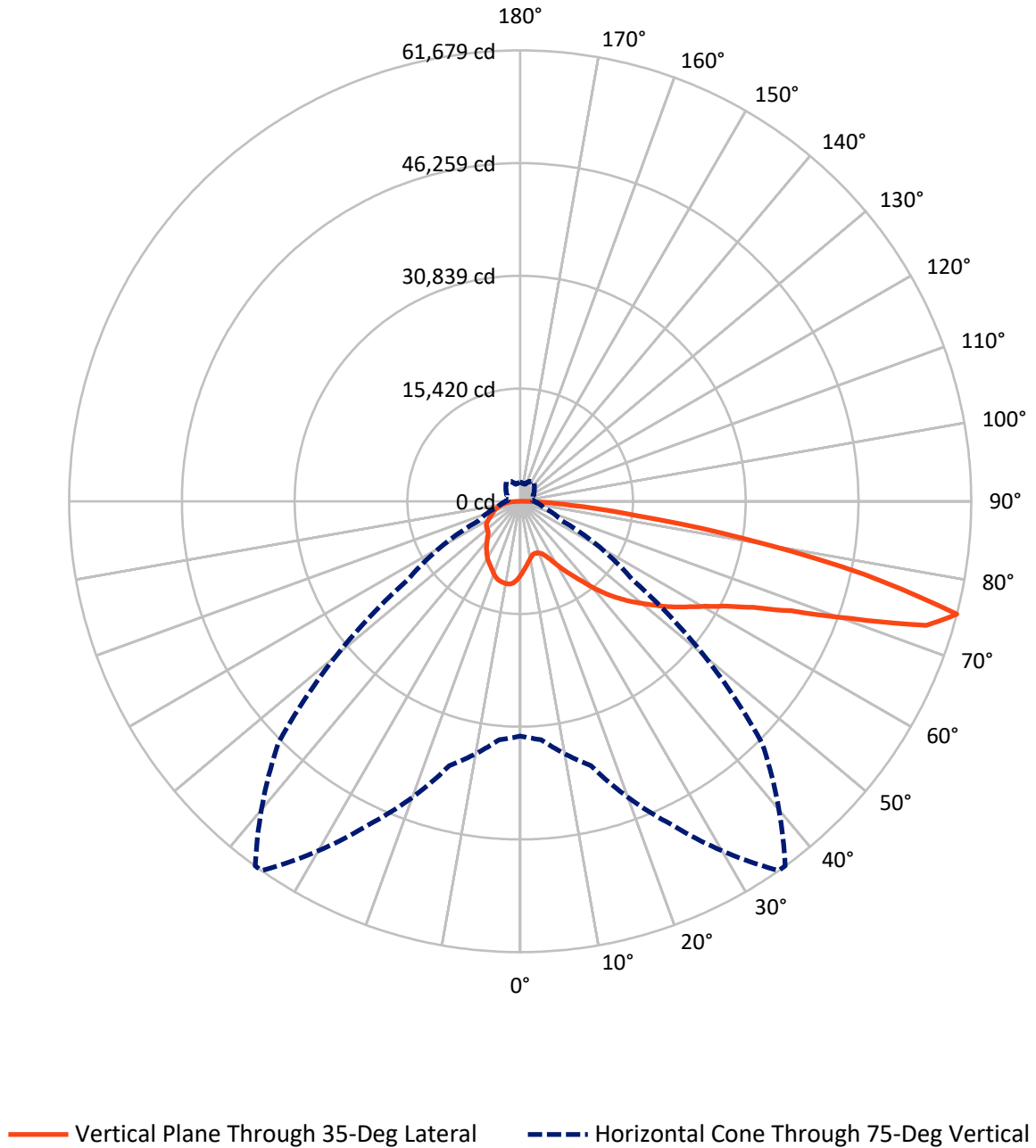
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18008.5	0.0	18008.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	57665.5	0.0	57665.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	75674.0	0.0	75674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.8	1.3
10°-20°	2753.9	3.6
20°-30°	4624.6	6.1
30°-40°	7187.2	9.5
40°-50°	10667.8	14.1
50°-60°	14727.5	19.5
60°-70°	17867.9	23.6
70°-80°	14766.4	19.5
80°-90°	2123.9	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°	75674.0	100.0
0°-180°	75674.0	100.0

Coefficient of Utilization



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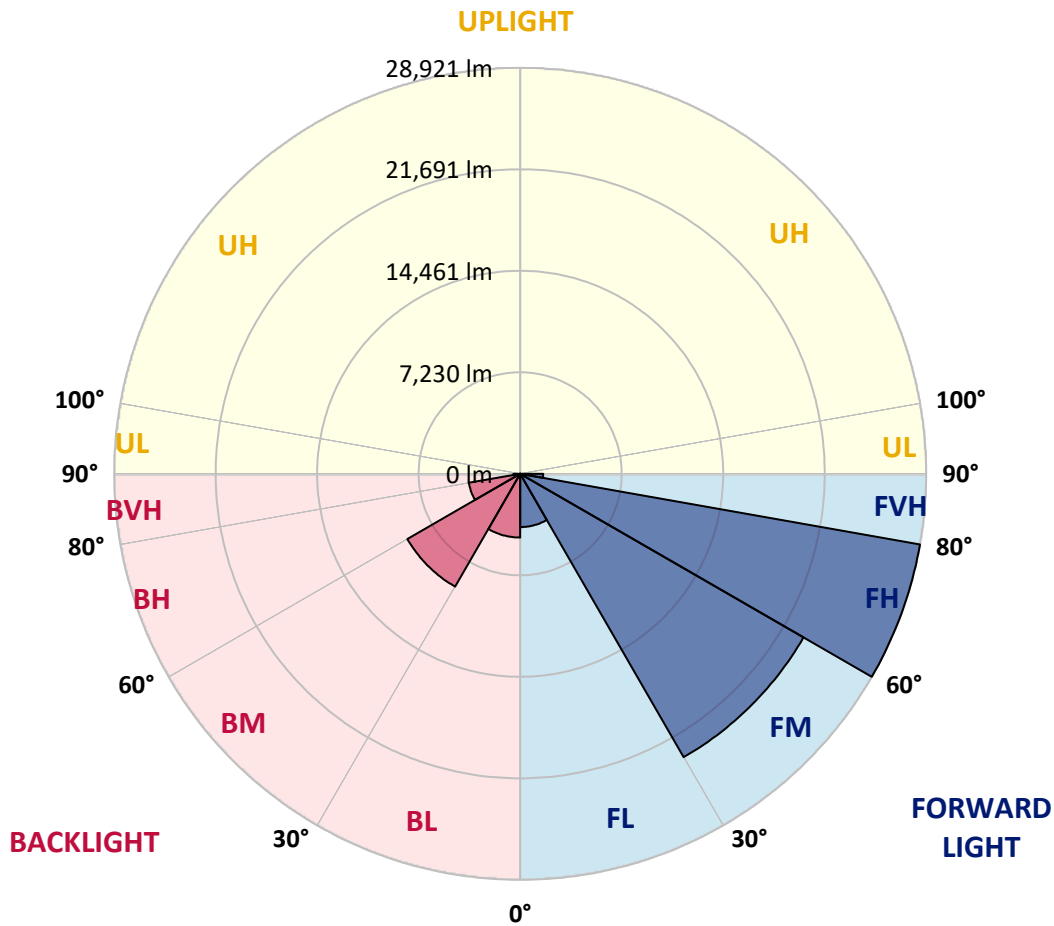
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3794.9	5.0			
FM (30°-60°)	23303.5	30.8			
FH (60°-80°)	28921.5	38.2			G5
FVH (80°-90°)	1645.6	2.2			G5
BL (0°-30°)	4538.4	6.0	B4/5000		
BM (30°-60°)	9279.1	12.3	B5		
BH (60°-80°)	3712.8	4.9	B4/5000		G4/5000
BVH (80°-90°)	478.2	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°	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1
2.5°	9298.6	9355.9	9380.4	9368.2	9429.5	9421.3	9507.3	9613.6	9760.9	9904.1
5°	8582.7	8644.1	8697.3	8746.3	8865.0	8901.8	9036.8	9241.3	9511.3	9785.4
7.5°	7915.9	7969.1	8050.9	8140.9	8341.3	8378.2	8603.2	8922.3	9298.6	9699.5
10°	7371.8	7425.0	7510.9	7613.2	7862.7	7907.7	8194.1	8619.5	9110.4	9617.7
12.5°	7138.6	7155.0	7204.1	7306.4	7523.2	7551.8	7866.8	8353.6	8926.3	9556.3
15°	7126.4	7159.1	7163.2	7216.4	7396.4	7408.6	7699.1	8181.8	8811.8	9544.1
17.5°	7249.1	7273.6	7236.8	7269.5	7420.9	7441.3	7670.4	8100.0	8775.0	9597.3
20°	7576.3	7596.8	7486.3	7441.3	7551.8	7568.2	7793.2	8153.2	8811.8	9707.7
22.5°	8271.8	8284.1	8014.1	7830.0	7838.2	7846.3	8042.7	8370.0	8955.0	9908.2
25°	9355.9	9347.7	8918.2	8562.3	8357.7	8312.7	8443.6	8721.8	9196.3	10174.1
27.5°	10624.1	10562.7	10133.2	9601.3	9155.4	9090.0	9061.3	9180.0	9540.0	10525.9
30°	12055.9	11998.6	11536.3	10840.9	10223.2	10116.8	9846.8	9785.4	10051.3	11004.5
32.5°	13626.8	13590.0	13037.7	12195.0	11368.6	11245.9	10791.8	10628.2	10836.8	11728.6
35°	14944.1	14911.3	14453.2	13585.9	12575.4	12424.1	11961.8	11777.7	11884.1	12657.2
37.5°	16134.5	16118.2	15725.4	15042.2	13999.1	13815.0	13295.4	13234.1	13213.6	13880.4
40°	17239.1	17198.2	16789.1	16429.1	15655.9	15488.2	15030.0	14976.8	14821.3	15385.9
42.5°	18462.2	18355.9	17762.7	17595.0	17386.3	17247.2	16973.2	16981.3	16637.7	17083.6
45°	19460.4	19399.1	18789.5	18691.3	18916.3	18859.1	19096.3	19157.7	18490.9	18863.1
47.5°	20532.2	20475.0	19959.5	19890.0	20499.5	20515.9	21354.5	21375.0	20299.1	20712.2
50°	21853.6	21771.8	21260.4	21346.3	22029.5	22090.9	23625.0	23485.9	21964.1	22590.0
52.5°	22725.0	22774.0	22663.6	22802.7	23735.4	23792.7	25858.6	25502.7	23612.7	24443.1
55°	23367.2	23465.4	23809.0	24128.1	25535.4	25592.7	27965.4	27421.3	24979.0	26161.3
57.5°	24193.6	24054.5	24696.8	25318.6	27245.4	27396.8	30014.9	29270.4	26190.0	27642.2
60°	25380.0	25281.8	25780.9	26701.3	29159.9	29401.3	32183.1	30935.4	27077.7	28816.3
62.5°	27785.4	27539.9	27617.7	28431.8	31573.6	31892.7	34629.5	32387.7	27519.5	29274.5
65°	31381.3	30959.9	30567.2	31131.8	34973.1	35288.1	37390.8	33529.0	27355.9	28386.8
67.5°	35909.9	35492.7	35009.9	35541.8	39980.4	40229.9	40798.6	34171.3	26067.2	24966.8
70°	39644.9	39489.5	40066.3	42254.9	47978.1	47986.3	45167.6	33639.5	22536.8	17701.3
72.5°	39149.9	39055.8	42095.4	48861.7	58058.1	57841.3	49303.5	29614.0	15181.3	7985.4
75°	32117.7	32727.2	37435.8	48743.1	61678.5	61649.9	46771.3	18826.3	6279.5	3309.5
77.5°	17222.7	18188.1	24304.0	35987.7	48149.9	48874.0	32882.7	6586.4	2695.9	2119.1
80°	5616.8	6459.5	9687.3	18323.1	31287.2	31152.2	14093.2	2585.4	1845.0	1501.4
82.5°	2385.0	2483.2	4328.2	8652.3	16056.8	15807.2	4487.7	1485.0	1296.8	1026.8
85°	932.7	1043.2	1910.5	4000.9	6954.5	6803.2	1620.0	736.4	830.5	670.9
87.5°	306.8	372.3	683.2	1370.5	2164.1	2086.4	396.8	253.6	360.0	306.8
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°
10084.1	0°	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1	10084.1
10112.7	2.5°	10170.0	10235.4	10313.2	10427.7	10525.9	10607.7	10693.6	10746.8	10767.3	10828.6
10129.1	5°	10243.6	10386.8	10579.1	10767.3	10951.3	11061.8	11160.0	11209.1	11254.1	11286.8
10174.1	7.5°	10366.3	10550.4	10853.2	11098.6	11254.1	11344.1	11409.5	11393.2	11409.5	11417.7
10223.2	10°	10472.7	10730.4	11090.4	11323.6	11442.3	11446.3	11430.0	11372.7	11344.1	11348.2
10296.8	12.5°	10599.5	10885.9	11274.5	11470.9	11503.6	11413.6	11344.1	11245.9	11209.1	11192.7
10407.3	15°	10771.3	11098.6	11475.0	11548.6	11466.8	11352.3	11233.6	11074.1	10992.3	10926.8
10595.4	17.5°	10980.0	11340.0	11630.4	11577.3	11401.3	11213.2	11020.9	10779.5	10611.8	10542.3
10853.2	20°	11270.4	11593.6	11749.1	11515.9	11250.0	10963.6	10636.3	10341.8	10186.3	10116.8
11180.4	22.5°	11622.3	11933.2	11863.6	11409.5	11033.2	10575.0	10165.9	9949.1	9871.3	9822.3
11601.8	25°	12043.6	12309.5	11945.4	11254.1	10677.3	10059.5	9744.5	9675.0	9638.2	9601.3
12117.3	27.5°	12591.8	12735.0	12006.8	11025.0	10120.9	9511.3	9396.8	9409.1	9396.8	9335.4
12833.2	30°	13315.9	13287.2	12064.1	10652.7	9482.7	9016.3	9024.5	9077.7	9085.9	9045.0
13831.3	32.5°	14269.1	13978.6	12092.7	10170.0	8873.2	8582.7	8590.9	8648.2	8689.1	8619.5
15136.3	35°	15422.7	14784.5	12047.7	9564.5	8402.7	8169.5	8108.2	8124.5	8136.8	8071.3
16719.5	37.5°	16768.6	15688.6	11847.3	8893.6	8014.1	7764.5	7633.6	7523.2	7457.7	7396.4
18511.3	40°	18245.4	16674.5	11479.1	8239.1	7580.4	7335.0	7138.6	6930.0	6709.1	6627.3
20409.5	42.5°	19791.8	17689.1	11033.2	7613.2	7081.4	6880.9	6672.3	6369.5	6038.2	5870.4
22381.3	45°	21395.4	18728.1	10595.4	6995.4	6570.0	6484.1	6242.7	5878.6	5518.6	5305.9
24357.2	47.5°	22966.3	19710.0	9953.2	6373.6	6091.4	6185.4	5997.3	5661.8	5260.9	4925.4
26316.8	50°	24467.7	20630.4	8901.8	5743.6	5702.7	6095.4	5915.4	5432.7	4974.5	4545.0
28239.5	52.5°	25956.8	21375.0	7555.9	5170.9	5494.1	6070.9	5809.1	5277.3	4716.8	4266.8
30047.7	55°	27220.9	21759.5	6259.1	4680.0	5191.4	5862.3	5682.3	5093.2	4352.7	3874.1
31287.2	57.5°	27940.9	21448.6	5179.1	4197.3	4774.1	5518.6	5465.4	4700.4	3919.1	3550.9
31528.6	60°	27629.9	20188.6	4295.4	3775.9	4377.3	5146.4	5089.1	4311.8	3587.7	3240.0
30235.9	62.5°	25915.9	17787.2	3595.9	3407.7	4017.3	4765.9	4712.7	4013.2	3334.1	2998.6
26803.6	65°	22463.1	14469.5	3051.8	3100.9	3653.2	4307.7	4385.4	3763.6	3133.6	2806.4
20736.8	67.5°	17132.7	10480.9	2626.4	2835.0	3297.3	3857.7	4082.7	3583.6	2965.9	2655.0
11998.6	70°	9765.0	5952.3	2266.4	2577.3	2982.3	3440.4	3849.5	3440.4	2785.9	2528.2
4495.9	72.5°	3702.3	2732.7	1959.5	2319.5	2679.5	3088.6	3591.8	3215.4	2577.3	2385.0
2323.6	75°	1975.9	1665.0	1648.6	2016.8	2331.8	2745.0	3268.6	2994.5	2421.8	2520.0
1607.7	77.5°	1345.9	1178.2	1378.6	1726.4	1951.4	2364.5	2925.0	2659.1	2098.6	2090.5
1112.7	80°	932.7	834.5	1120.9	1390.9	1509.5	1988.2	2552.7	2282.7	1710.0	1595.5
687.3	82.5°	560.5	544.1	838.6	1039.1	1067.7	1534.1	2115.0	1914.5	1399.1	1219.1
409.1	85°	306.8	323.2	535.9	609.5	621.8	1071.8	1656.8	1480.9	1075.9	904.1
147.3	87.5°	85.9	110.5	196.4	241.4	298.6	556.4	985.9	879.5	540.0	376.4
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°
10084.1
10824.5
11295.0
11430.0
11356.3
11184.5
10947.3
10546.3
10108.6
9830.4
9601.3
9347.7
9065.4
8652.3
8116.3
7437.3
6664.1
5890.9
5289.5
4888.6
4508.2
4217.7
3833.2
3501.8
3190.9
2945.4
2753.2
2605.9
2495.4
2352.3
2601.8
1926.8
1525.9
1227.3
912.3
376.4
0.0

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