

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: P954804

Luminaire Tested: **GALN-SB7D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52339 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

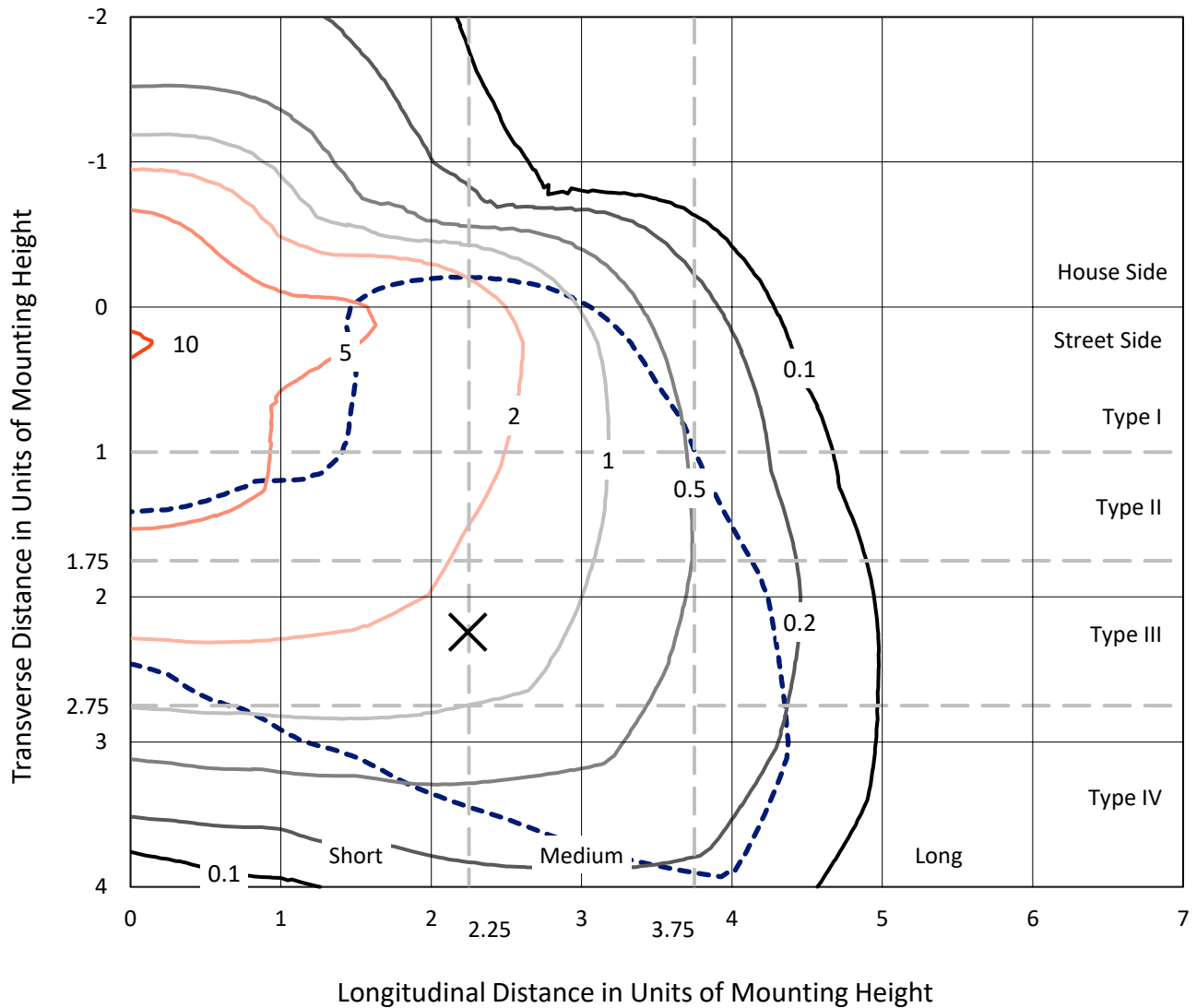
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

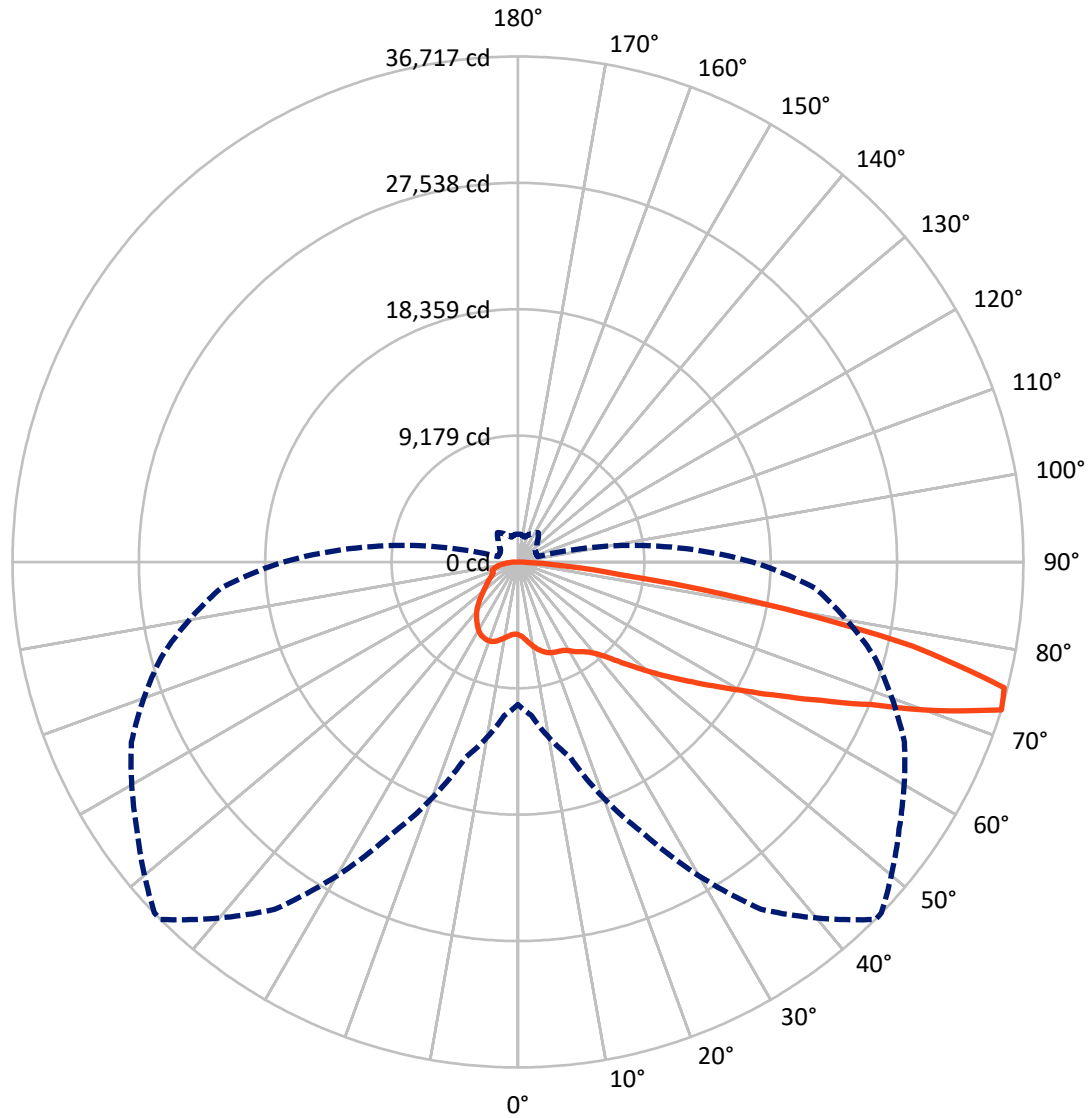
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11832.0	0.0	11832.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	40507.0	0.0	40507.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	52339.0	0.0	52339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.4	1.0
10°-20°	1791.8	3.4
20°-30°	3116.9	6.0
30°-40°	4468.2	8.5
40°-50°	6291.5	12.0
50°-60°	9636.7	18.4
60°-70°	13960.2	26.7
70°-80°	11148.0	21.3
80°-90°	1388.4	2.7
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°	52339.0	100.0
0°-180°	52339.0	100.0

Coefficient of Utilization



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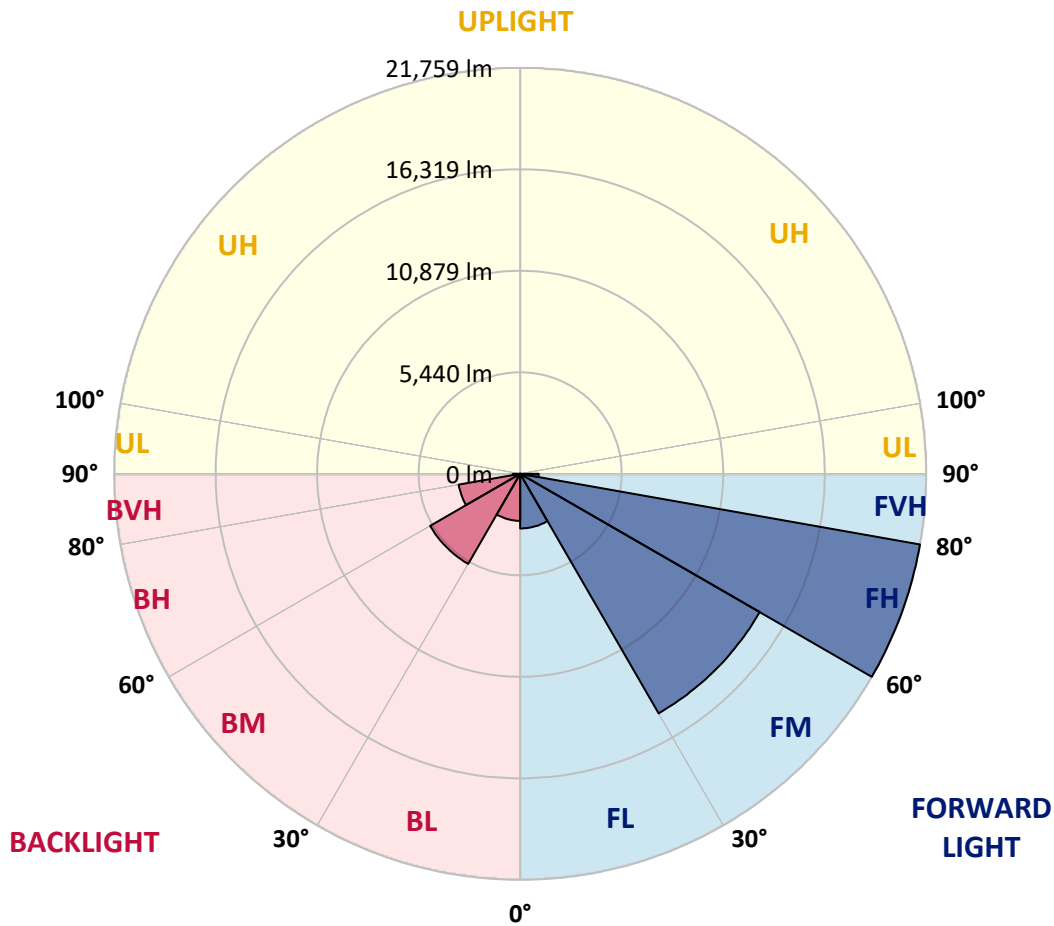
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.9	5.6			
FM (30°-60°)	14825.1	28.3			
FH (60°-80°)	21758.9	41.6			G5
FVH (80°-90°)	996.1	1.9			G5
BL (0°-30°)	2519.1	4.8	B4/5000		
BM (30°-60°)	5571.2	10.6	B4/8500		
BH (60°-80°)	3349.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	392.4	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0
2.5°	5486.8	5522.6	5489.5	5459.2	5445.4	5409.6	5406.8	5384.8	5371.0	5332.4
5°	5870.0	5916.9	5861.7	5801.1	5745.9	5657.7	5646.7	5583.3	5511.6	5428.9
7.5°	6302.9	6344.3	6280.8	6189.9	6093.4	5947.2	5944.5	5828.7	5715.6	5575.0
10°	6680.6	6735.8	6650.3	6526.2	6404.9	6239.5	6220.2	6087.8	5944.5	5762.5
12.5°	7014.2	7052.8	6970.1	6818.5	6677.9	6512.4	6487.6	6341.5	6181.6	5974.8
15°	7278.9	7328.6	7218.3	7055.6	6906.7	6744.0	6722.0	6589.6	6429.7	6211.9
17.5°	7452.6	7494.0	7381.0	7199.0	7055.6	6920.5	6904.0	6793.7	6653.1	6432.5
20°	7518.8	7562.9	7444.4	7259.6	7127.3	7022.5	7014.2	6934.3	6837.8	6636.5
22.5°	7585.0	7626.3	7471.9	7278.9	7163.1	7097.0	7094.2	7041.8	7003.2	6837.8
25°	7852.4	7863.5	7656.7	7378.2	7212.8	7154.9	7152.1	7149.3	7165.9	7036.3
27.5°	8084.0	8081.3	7904.8	7642.9	7386.5	7265.2	7262.4	7290.0	7342.4	7234.8
30°	8423.2	8392.8	8183.3	7910.3	7676.0	7488.5	7471.9	7447.1	7488.5	7403.0
32.5°	9142.8	9046.3	8707.2	8221.9	7915.8	7772.5	7750.4	7596.0	7612.6	7560.2
35°	10174.0	10047.1	9595.0	8811.9	8213.6	8009.6	7998.6	7802.8	7769.7	7722.8
37.5°	11400.9	11243.8	10717.1	9666.6	8726.5	8285.3	8268.8	8092.3	7957.2	7907.6
40°	12633.4	12434.9	11999.2	10708.9	9481.9	8745.8	8693.4	8425.9	8271.5	8188.8
42.5°	13830.0	13664.5	13292.3	11877.9	10413.8	9418.5	9302.7	8845.0	8729.2	8652.0
45°	14888.7	14739.8	14466.9	13126.9	11505.7	10333.9	10220.8	9473.6	9437.8	9437.8
47.5°	15749.0	15715.9	15426.4	14400.7	12793.3	11376.1	11180.3	10347.7	10444.2	10593.1
50°	16703.0	16612.0	16303.2	15655.2	14307.0	12570.0	12410.0	11420.2	11781.4	12189.5
52.5°	17579.7	17629.4	17284.7	16962.1	16016.4	13901.7	13620.4	12685.8	13466.0	14141.5
55°	18481.3	18484.1	18387.6	18343.5	17808.6	15374.0	15065.2	14207.7	15448.4	16286.6
57.5°	19327.8	19333.3	19476.7	19865.4	19887.5	17072.4	16722.3	16077.1	17651.4	18506.1
60°	20083.2	20121.8	20513.4	21423.2	21715.5	19019.0	18688.1	18285.6	19928.8	20789.1
62.5°	20336.9	20477.5	21348.8	22641.9	23521.4	21406.7	21081.3	20841.5	22322.1	23121.7
65°	19906.8	20229.4	21914.0	23648.3	25379.8	24243.8	23921.2	23659.3	24809.0	25561.8
67.5°	18850.8	19267.1	21880.9	24704.3	27635.1	27657.2	27356.7	26741.8	27475.2	27764.7
70°	16068.8	16691.9	19953.7	25098.5	30224.1	32325.1	32035.6	30453.0	30135.9	28735.3
72.5°	10353.2	11191.4	14693.0	21853.4	30800.4	36717.3	36700.7	33802.9	30976.8	26849.4
75°	3777.3	4290.2	6826.8	13716.9	25854.0	36493.9	36601.5	33229.4	28277.6	20739.5
77.5°	1375.8	1505.4	2227.8	5271.7	15900.6	29281.2	29504.5	26565.4	20127.4	10408.3
80°	722.4	794.1	1141.5	2045.8	6813.0	17389.5	17739.7	15787.6	9459.9	3134.9
82.5°	399.8	432.9	639.7	1111.1	3068.7	7436.1	7645.6	6236.7	3327.9	1329.0
85°	215.1	228.8	300.5	606.6	1499.9	2578.0	2635.9	1863.8	1326.2	780.3
87.5°	63.4	77.2	99.3	193.0	587.3	579.0	592.8	369.5	523.9	394.3
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°
5280.0	0°	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0
5321.3	2.5°	5304.8	5296.5	5266.2	5252.4	5235.9	5233.1	5246.9	5249.7	5252.4	5255.2
5382.0	5°	5354.4	5326.9	5299.3	5282.7	5288.3	5291.0	5318.6	5337.9	5351.7	5362.7
5495.0	7.5°	5450.9	5428.9	5382.0	5379.2	5387.5	5412.3	5448.2	5492.3	5517.1	5536.4
5641.2	10°	5594.3	5552.9	5497.8	5506.1	5522.6	5558.5	5632.9	5668.7	5710.1	5745.9
5820.4	12.5°	5740.4	5704.6	5641.2	5646.7	5674.3	5737.7	5809.4	5853.5	5881.1	5908.6
6013.4	15°	5930.7	5867.3	5798.3	5798.3	5848.0	5916.9	5950.0	5985.8	6002.4	6032.7
6220.2	17.5°	6126.4	6043.7	5952.7	5947.2	6007.9	6041.0	6060.3	6065.8	6071.3	6104.4
6421.5	20°	6322.2	6231.2	6101.6	6090.6	6104.4	6098.9	6096.1	6090.6	6098.9	6140.2
6628.2	22.5°	6515.2	6410.4	6231.2	6181.6	6143.0	6090.6	6087.8	6085.1	6090.6	6132.0
6851.6	25°	6741.3	6614.5	6374.6	6225.7	6096.1	6024.4	6032.7	6035.5	6041.0	6074.1
7083.2	27.5°	6986.7	6846.1	6506.9	6211.9	5977.6	5927.9	5914.1	5922.4	5941.7	5994.1
7314.8	30°	7232.1	7066.6	6628.2	6156.8	5828.7	5759.7	5715.6	5734.9	5795.6	5848.0
7516.1	32.5°	7455.4	7290.0	6724.7	6035.5	5638.4	5530.9	5473.0	5497.8	5558.5	5577.8
7739.4	35°	7717.3	7529.8	6766.1	5842.4	5431.6	5266.2	5189.0	5153.2	5183.5	5164.2
8001.3	37.5°	8009.6	7813.8	6760.6	5588.8	5189.0	4998.8	4891.2	4756.1	4692.7	4626.5
8387.3	40°	8442.5	8161.2	6694.4	5282.7	4888.5	4714.8	4521.8	4292.9	4149.5	4020.0
9010.4	42.5°	9032.5	8643.7	6573.1	4946.4	4549.3	4386.7	4124.7	3857.3	3631.2	3416.1
9956.2	45°	9912.0	9275.1	6421.5	4587.9	4182.6	4022.7	3738.7	3438.2	3181.8	2906.1
11298.9	47.5°	11180.3	10124.3	6278.1	4179.9	3796.6	3650.5	3394.1	3115.6	2812.3	2544.9
13239.9	50°	12922.9	11343.0	6145.7	3782.8	3416.1	3305.9	3101.8	2817.8	2511.8	2296.7
15514.6	52.5°	15139.6	13000.1	6090.6	3399.6	3060.5	3019.1	2856.4	2591.7	2302.2	2120.3
18167.0	55°	17684.5	14982.5	6090.6	3032.9	2748.9	2762.7	2649.6	2404.3	2153.4	1990.7
20902.1	57.5°	20281.8	16989.7	5980.3	2693.8	2484.2	2542.1	2470.4	2255.4	2029.3	1861.1
23777.9	60°	22675.0	18671.6	5533.6	2385.0	2249.9	2340.8	2294.0	2109.2	1833.5	1692.9
26182.1	62.5°	24514.0	19620.0	4673.4	2139.6	2056.9	2161.6	2136.8	1916.2	1797.7	1739.8
28156.3	65°	25434.9	19465.6	3573.3	1921.7	1894.2	2056.9	2004.5	1996.2	1902.4	1836.3
28798.7	67.5°	24869.7	18136.7	2591.7	1761.8	1800.4	1960.4	2161.6	2194.7	2021.0	1891.4
26990.0	70°	22391.0	15732.4	1930.0	1610.2	1681.9	1963.1	2464.9	2296.7	1982.4	1830.8
21646.6	72.5°	17033.8	11731.8	1497.1	1450.3	1527.5	1976.9	2600.0	2249.9	1872.1	2023.8
13485.3	75°	9741.1	6440.8	1202.1	1254.5	1334.5	1847.3	2531.1	2128.5	1786.6	1858.3
5343.4	77.5°	3713.9	2475.9	992.6	1061.5	1072.5	1612.9	2420.8	2120.3	1701.2	1659.8
1601.9	80°	1287.6	967.8	821.6	843.7	829.9	1433.7	2321.5	1844.5	1392.4	1246.2
661.7	82.5°	526.6	482.5	650.7	623.1	590.0	1113.9	1874.9	1508.2	1138.7	1006.4
319.8	85°	228.8	306.0	430.1	377.7	341.9	772.0	1502.7	1276.6	962.3	829.9
104.8	87.5°	46.9	115.8	182.0	170.9	176.5	515.6	1067.0	907.1	681.0	510.1
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°
5280.0
5266.2
5368.2
5541.9
5737.7
5919.7
6043.7
6115.4
6156.8
6159.5
6118.2
6046.5
5905.9
5646.7
5224.8
4667.9
4028.2
3396.8
2873.0
2514.5
2282.9
2106.5
1974.1
1833.5
1670.8
1720.5
1814.2
1869.4
1805.9
2007.2
1858.3
1513.7
1204.9
995.3
827.2
399.8
0.0

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