

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: P942105

Luminaire Tested: **GALN-SB5D-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35432 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

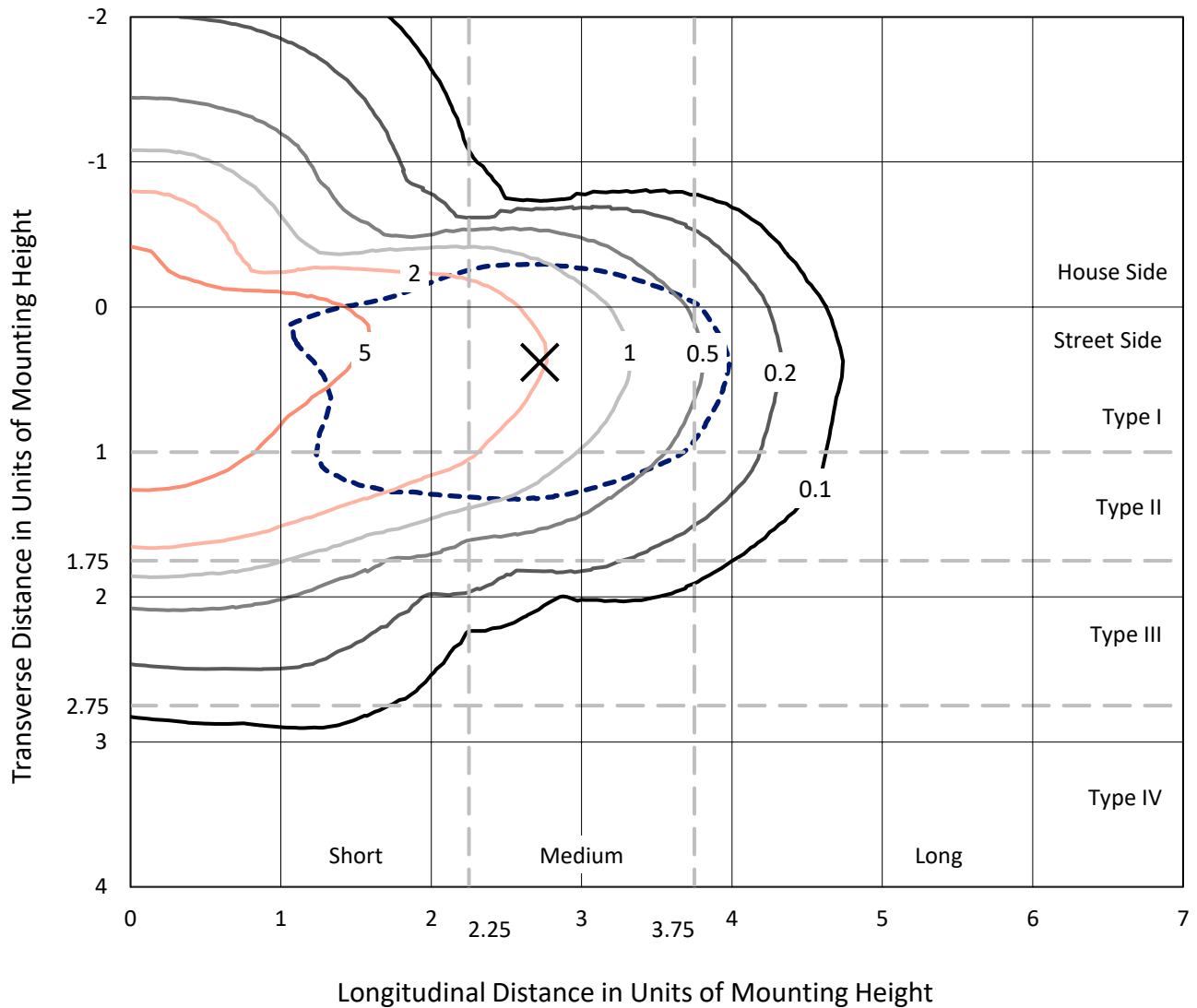
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

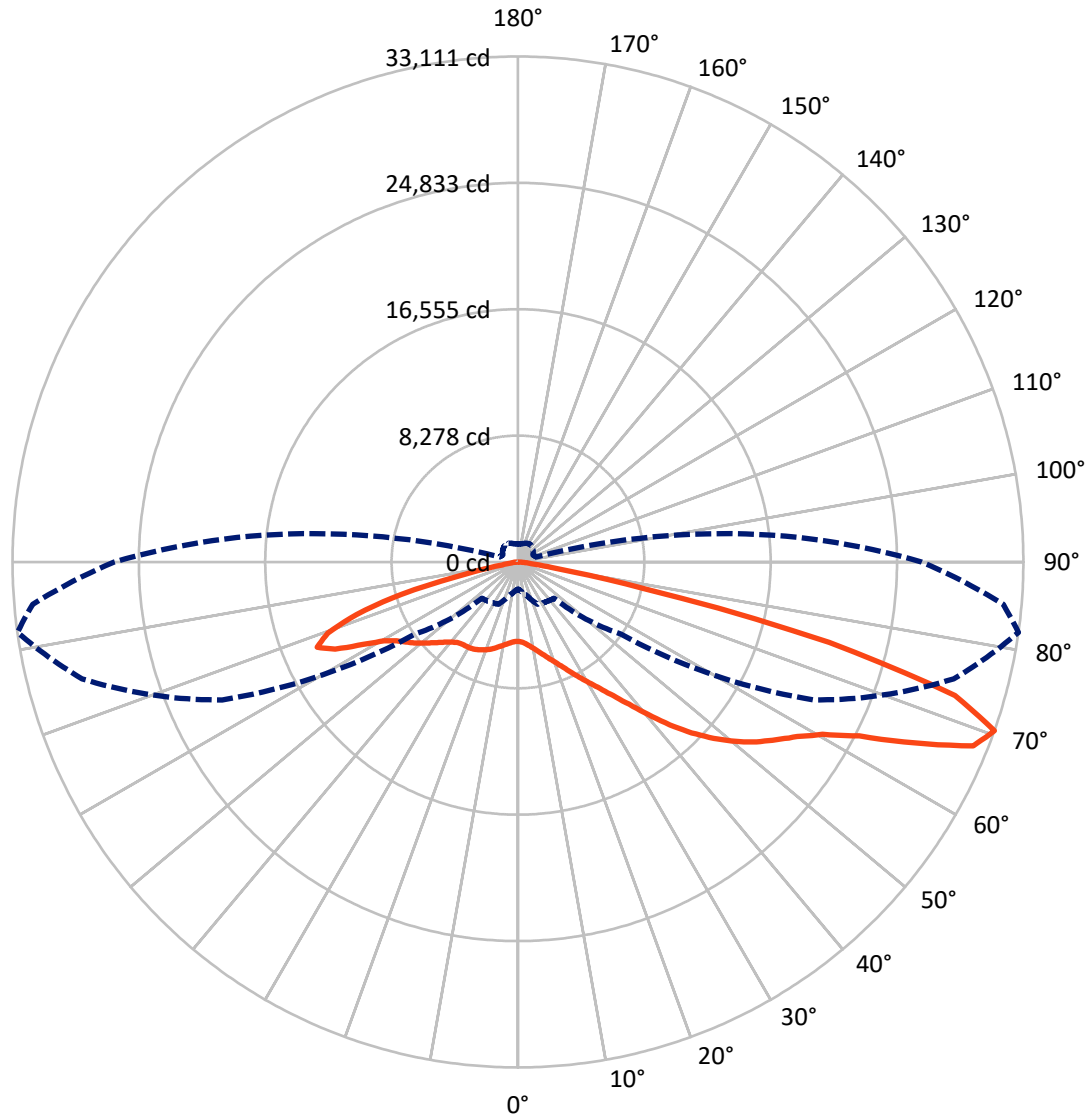
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8734.9	0.0	8734.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	26697.1	0.0	26697.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	35432.0	0.0	35432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.5	1.4
10°-20°	1409.2	4.0
20°-30°	2357.4	6.7
30°-40°	3682.9	10.4
40°-50°	5865.4	16.6
50°-60°	8162.4	23.0
60°-70°	8538.3	24.1
70°-80°	4462.6	12.6
80°-90°	463.4	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°	35432.0	100.0
0°-180°	35432.0	100.0

Coefficient of Utilization



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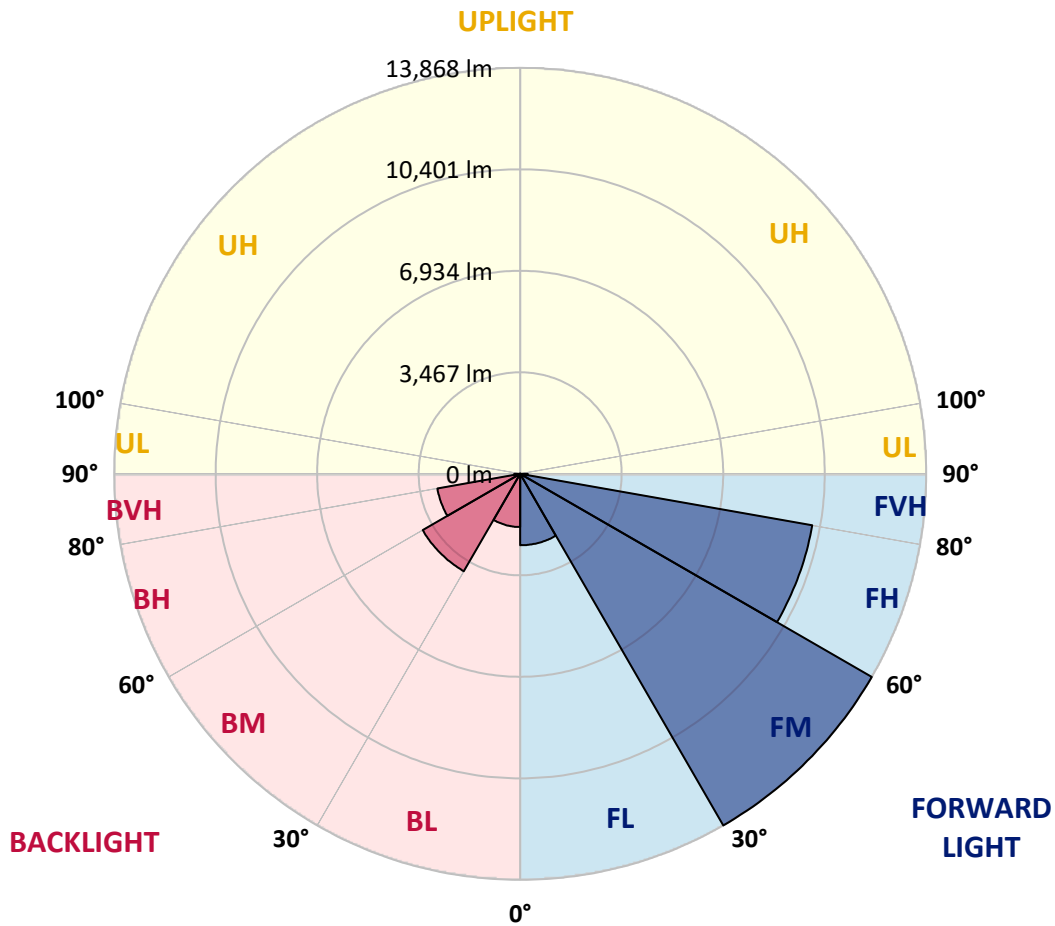
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.9	6.9			
FM (30°-60°)	13867.7	39.1			
FH (60°-80°)	10130.1	28.6			G4/12000
FVH (80°-90°)	259.4	0.7			G3/500
BL (0°-30°)	1817.2	5.1	B3/2500		
BM (30°-60°)	3843.0	10.8	B3/5000		
BH (60°-80°)	2870.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	204.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8
2.5°	5318.9	5348.9	5339.5	5330.1	5330.1	5317.0	5315.1	5296.3	5281.3	5256.8
5°	5386.5	5418.5	5414.7	5422.3	5446.7	5452.4	5458.0	5446.7	5416.6	5386.5
7.5°	5326.4	5362.1	5373.4	5418.5	5493.7	5561.4	5612.2	5632.8	5604.6	5561.4
10°	5123.3	5162.8	5202.3	5309.5	5443.0	5602.8	5738.1	5819.0	5813.3	5772.0
12.5°	4711.6	4752.9	4837.6	5046.2	5290.7	5572.7	5824.6	5993.8	6052.1	6022.0
15°	4382.6	4418.3	4482.2	4696.5	5014.3	5443.0	5856.6	6185.6	6334.1	6317.2
17.5°	4373.2	4388.2	4427.7	4529.2	4773.6	5239.9	5822.7	6373.6	6657.5	6655.6
20°	4538.6	4544.3	4566.8	4587.5	4726.6	5085.7	5736.2	6529.7	7020.4	7020.4
22.5°	4768.0	4764.2	4786.8	4768.0	4835.7	5072.6	5681.7	6666.9	7424.6	7454.7
25°	5112.0	5093.2	5087.6	5044.4	5057.5	5194.8	5741.9	6823.0	7904.0	7966.1
27.5°	5570.8	5540.7	5520.0	5420.4	5386.5	5446.7	5926.1	7011.0	8438.0	8545.1
30°	6168.7	6114.2	6084.1	5911.1	5788.9	5798.3	6204.4	7261.0	8996.4	9169.4
32.5°	6984.6	6900.0	6819.2	6535.3	6311.6	6238.2	6563.5	7607.0	9601.8	9878.2
35°	7898.4	7830.7	7744.2	7306.2	6962.1	6792.9	7048.6	8090.2	10310.6	10748.7
37.5°	8778.3	8720.0	8761.4	8171.0	7727.3	7481.0	7684.1	8738.8	11184.8	11831.6
40°	9688.3	9643.1	9648.8	9084.7	8567.7	8291.3	8454.9	9552.9	12186.9	13119.5
42.5°	10677.2	10643.4	10530.6	10030.4	9449.5	9191.9	9342.3	10493.0	13262.4	14586.0
45°	11784.6	11763.9	11658.6	11085.2	10419.6	10130.1	10333.1	11530.8	14343.4	15966.0
47.5°	12741.6	12758.5	12745.3	12262.1	11572.1	11147.2	11389.8	12613.7	15349.3	17263.3
50°	13202.2	13290.6	13420.3	13269.9	12841.2	12408.8	12455.8	13659.1	16308.2	18479.7
52.5°	12961.6	13128.9	13482.3	13723.0	13888.5	13798.2	13672.2	14696.9	17210.6	19577.7
55°	12064.7	12299.8	12886.3	13467.3	14311.5	14967.6	15133.1	15847.5	18090.5	20544.1
57.5°	10430.9	10812.6	11339.0	12514.1	13935.5	15533.6	16836.5	17443.8	19023.1	21576.3
60°	7629.5	8140.9	8795.2	10543.7	12619.4	15230.9	18286.1	19895.4	20348.5	22913.0
62.5°	4882.7	5198.5	5800.2	7447.2	9833.0	13679.8	18729.8	22960.0	22595.3	25105.3
65°	3342.9	3545.9	4096.8	5021.8	6356.7	10182.7	17541.5	25257.5	26163.8	28579.7
67.5°	2429.1	2583.3	3053.3	3863.6	4141.9	6025.8	13612.1	25152.3	29632.6	32159.5
70°	1771.1	1880.1	2274.9	3053.3	3186.8	3352.3	8246.2	21380.7	29557.4	33110.8
72.5°	1312.3	1387.5	1652.6	2369.0	2579.5	2263.7	4081.7	15539.2	25398.6	29948.4
75°	949.5	1005.9	1201.4	1812.4	2064.4	1724.1	2036.2	9081.0	17716.4	21066.8
77.5°	725.7	769.0	896.8	1327.4	1652.6	1293.5	1263.4	4177.6	8400.4	8441.7
80°	582.8	611.0	680.6	934.4	1267.2	968.3	823.5	1686.5	2654.7	2246.7
82.5°	428.7	475.7	575.3	656.2	906.2	667.4	502.0	851.7	1009.6	868.6
85°	244.4	276.4	347.8	470.0	579.1	408.0	287.7	377.9	470.0	385.4
87.5°	86.5	112.8	122.2	184.3	251.9	169.2	110.9	109.0	154.2	114.7
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°
5194.8	0°	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8	5194.8
5251.2	2.5°	5232.4	5223.0	5185.4	5134.6	5082.0	5031.2	5014.3	4978.6	4954.1	4941.0
5373.4	5°	5337.7	5307.6	5219.2	5106.4	4988.0	4860.1	4769.9	4687.1	4627.0	4570.6
5540.7	7.5°	5488.1	5435.4	5283.1	5085.7	4875.2	4662.7	4504.8	4384.4	4303.6	4251.0
5736.2	10°	5662.9	5582.1	5348.9	5053.8	4728.5	4423.9	4237.8	4134.4	4083.6	4055.4
5960.0	12.5°	5864.1	5749.4	5416.6	4980.4	4504.8	4156.9	4029.1	3999.0	4000.9	4002.8
6242.0	15°	6112.3	5952.5	5471.2	4820.6	4213.4	3952.0	3929.5	3978.3	4029.1	4053.5
6561.6	17.5°	6392.4	6166.8	5480.6	4557.4	3927.6	3820.4	3891.9	3997.1	4074.2	4108.1
6918.8	20°	6693.2	6384.9	5412.9	4185.1	3692.6	3713.2	3841.1	3976.5	4061.1	4104.3
7326.8	22.5°	7037.3	6618.0	5251.2	3794.1	3500.8	3596.7	3747.1	3878.7	3967.1	4010.3
7806.3	25°	7430.2	6879.4	4997.4	3465.1	3335.3	3465.1	3615.5	3724.5	3796.0	3835.4
8342.1	27.5°	7866.4	7152.0	4658.9	3203.7	3190.6	3329.7	3453.8	3538.4	3576.0	3606.1
8911.8	30°	8304.5	7400.2	4249.1	3006.3	3064.6	3196.2	3284.6	3322.2	3333.5	3339.1
9547.3	32.5°	8778.3	7614.5	3818.5	2842.7	2944.3	3066.5	3119.1	3136.0	3083.4	3047.7
10318.1	35°	9351.7	7843.9	3397.4	2713.0	2825.8	2931.1	2948.0	2933.0	2870.9	2797.6
11284.5	37.5°	10060.5	8129.6	3060.8	2620.9	2714.9	2784.5	2763.8	2760.0	2765.7	2679.2
12446.4	40°	10929.1	8501.9	2814.5	2549.4	2624.6	2639.7	2581.4	2613.4	2641.6	2510.0
13721.1	42.5°	11893.6	8951.3	2658.5	2500.6	2549.4	2513.7	2423.5	2459.2	2455.4	2282.5
15001.5	45°	12876.9	9440.1	2604.0	2464.8	2479.9	2408.4	2308.8	2318.2	2239.2	2083.2
16229.2	47.5°	13854.6	9964.6	2637.8	2434.8	2393.4	2312.5	2235.5	2194.1	2077.5	1961.0
17406.2	50°	14813.5	10515.5	2761.9	2374.6	2274.9	2227.9	2171.5	2098.2	1974.1	1874.5
18519.2	52.5°	15702.8	11070.2	2901.0	2274.9	2126.4	2154.6	2118.9	2034.3	1912.1	1810.6
19572.1	55°	16545.1	11624.8	2955.6	2137.7	1987.3	2090.7	2070.0	1914.0	1767.3	1684.6
20673.8	57.5°	17462.6	12292.2	2895.4	1962.8	1874.5	2017.4	1938.4	1765.4	1680.8	1618.8
22108.3	60°	18733.5	13339.5	2765.7	1746.6	1767.3	1908.3	1773.0	1701.5	1609.4	1539.8
24259.2	62.5°	20844.9	15292.9	2557.0	1532.3	1641.3	1746.6	1694.0	1622.5	1528.5	1460.9
27936.7	65°	23965.9	18007.8	2164.0	1365.0	1500.3	1588.7	1609.4	1537.9	1440.2	1368.7
31159.2	67.5°	26598.1	19711.2	1637.6	1225.8	1355.6	1460.9	1519.1	1449.6	1346.2	1276.6
31913.2	70°	26453.3	18474.1	1250.3	1088.6	1227.7	1334.9	1410.1	1355.6	1244.6	1178.8
28987.7	72.5°	23495.9	15454.6	1011.5	949.5	1098.0	1203.3	1293.5	1252.2	1139.4	1075.4
21236.0	75°	17261.4	10970.5	808.5	808.5	936.3	1066.0	1165.7	1139.4	1035.9	990.8
8915.5	77.5°	7276.1	4602.5	633.6	671.2	778.4	915.6	1039.7	1049.1	958.9	1015.3
2357.7	80°	1934.6	1269.1	483.2	528.3	611.0	755.8	904.3	900.6	802.8	750.2
876.1	82.5°	737.0	500.1	344.1	372.3	441.8	579.1	716.3	738.9	641.1	554.6
344.1	85°	283.9	214.3	212.5	223.7	257.6	383.5	541.5	560.3	483.2	409.9
95.9	87.5°	73.3	63.9	79.0	75.2	118.4	204.9	310.2	321.5	295.2	171.1
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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<u>180°</u>
5194.8
4956.0
4593.1
4262.2
4062.9
4006.5
4051.7
4115.6
4115.6
4021.6
3846.7
3617.4
3352.3
3059.0
2801.4
2684.8
2513.7
2280.6
2088.8
1961.0
1867.0
1812.4
1677.1
1613.1
1536.1
1460.9
1372.5
1278.5
1184.5
1075.4
977.7
921.3
697.5
554.6
423.0
244.4
0.0

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