

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: P944615

Luminaire Tested: **GALN-SB9C-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944615
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-SB9C-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41141 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

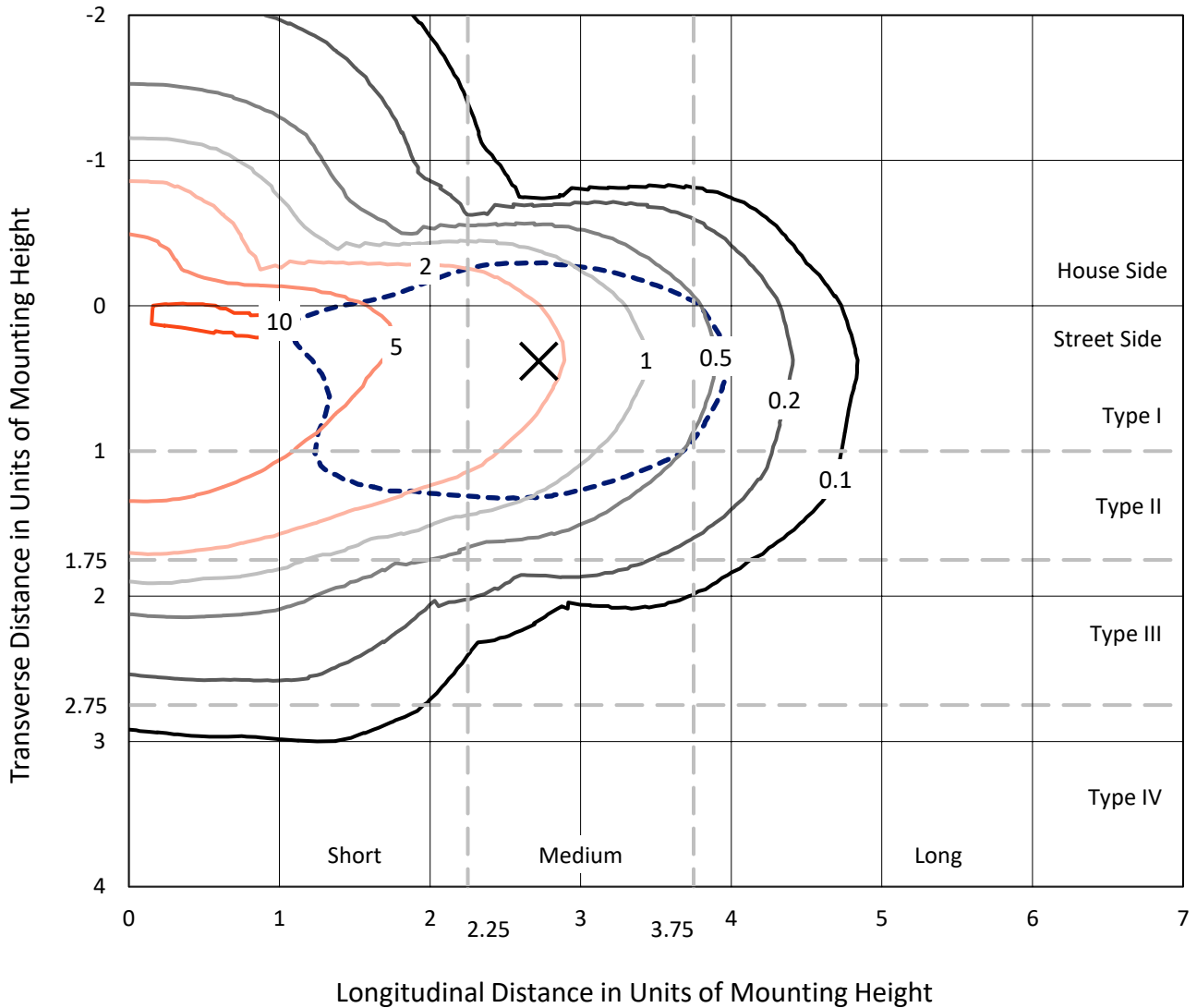
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

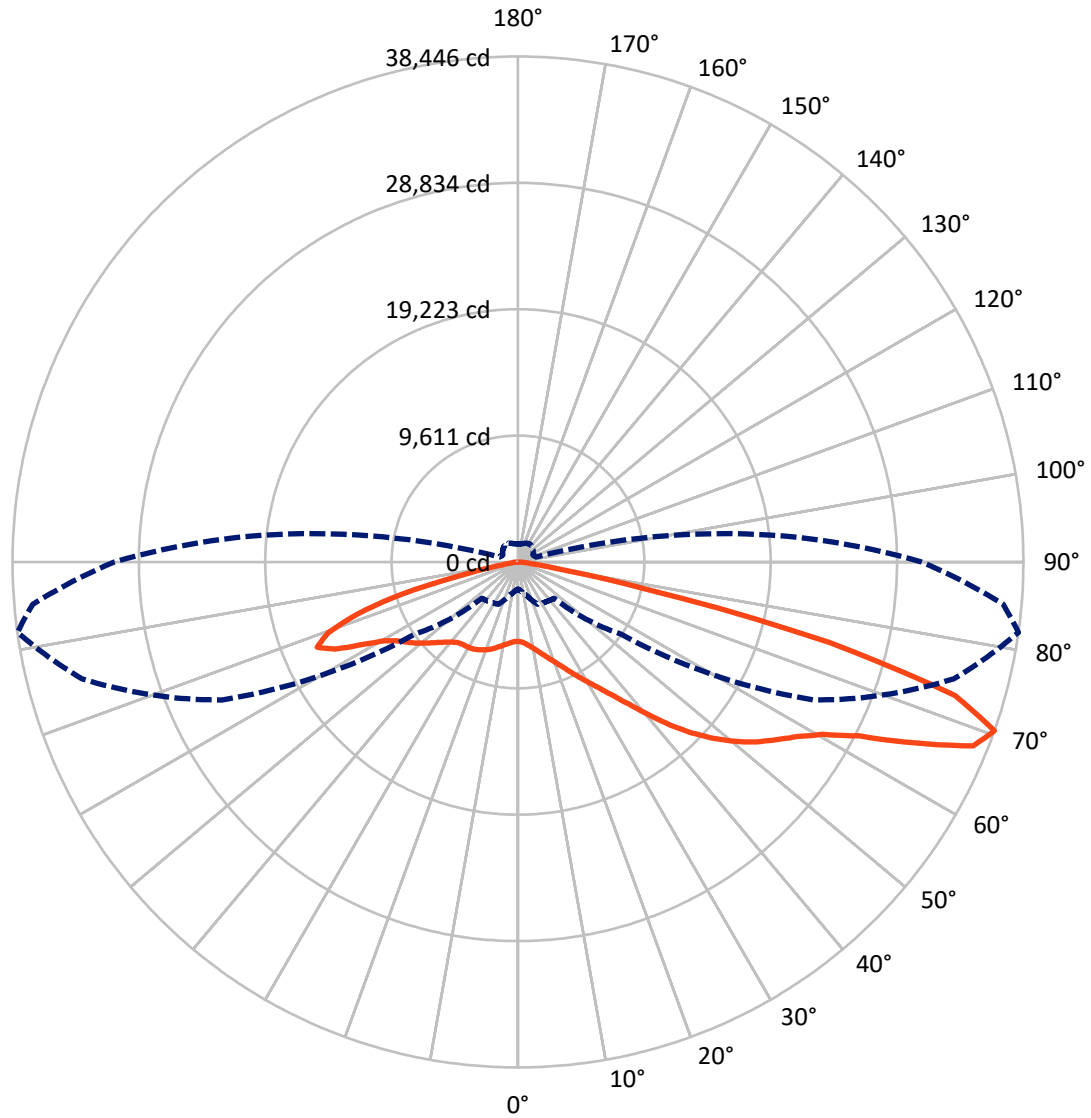
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	10142.3	0.0	10142.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	30998.7	0.0	30998.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	41141.0	0.0	41141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.5	1.4
10°-20°	1636.2	4.0
20°-30°	2737.2	6.7
30°-40°	4276.3	10.4
40°-50°	6810.5	16.6
50°-60°	9477.6	23.0
60°-70°	9914.0	24.1
70°-80°	5181.6	12.6
80°-90°	538.0	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°	41141.0	100.0
0°-180°	41141.0	100.0

Coefficient of Utilization



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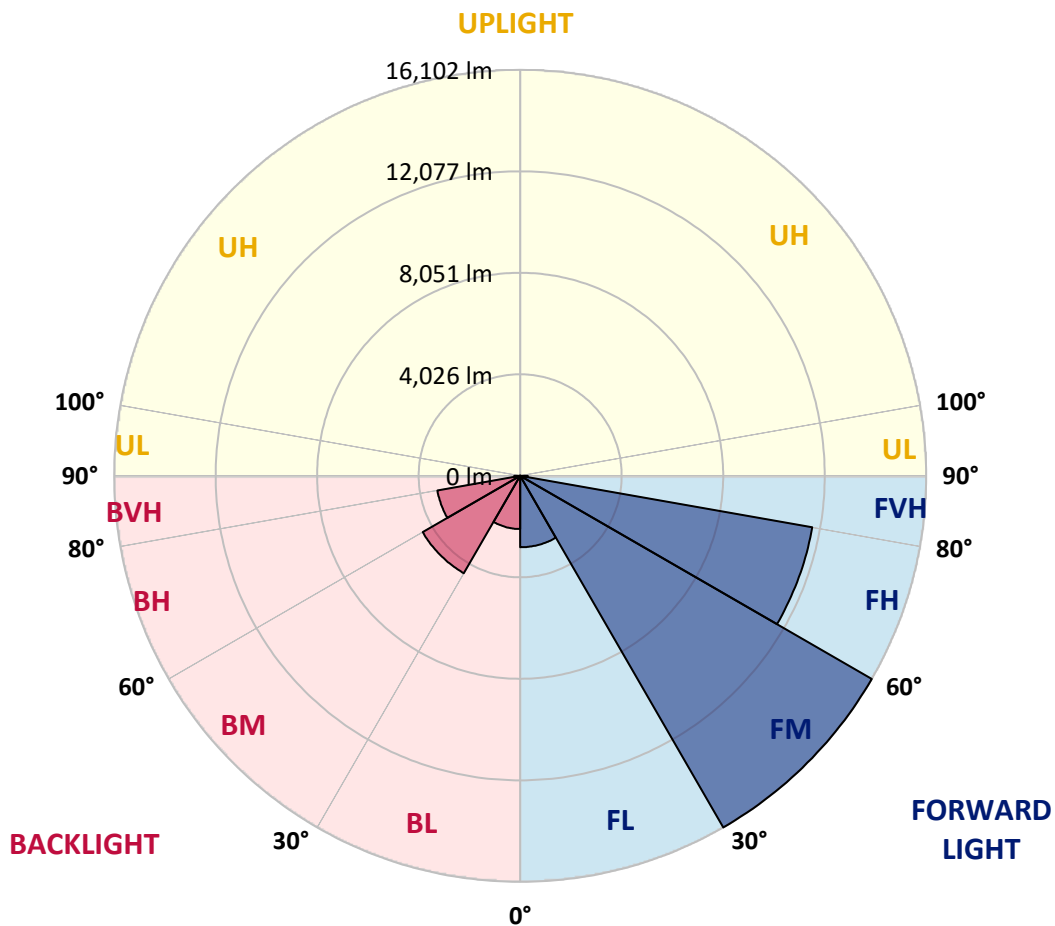
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2833.0	6.9			
FM (30°-60°)	16102.2	39.1			
FH (60°-80°)	11762.3	28.6			G4/12000
FVH (80°-90°)	301.2	0.7			G3/500
BL (0°-30°)	2110.0	5.1	B3/2500		
BM (30°-60°)	4462.2	10.8	B3/5000		
BH (60°-80°)	3333.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	236.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8
2.5°	6175.9	6210.8	6199.9	6189.0	6189.0	6173.7	6171.5	6149.7	6132.2	6103.8
5°	6254.5	6291.6	6287.2	6295.9	6324.3	6330.9	6337.4	6324.3	6289.4	6254.5
7.5°	6184.6	6226.1	6239.2	6291.6	6378.9	6457.5	6516.4	6540.4	6507.7	6457.5
10°	5948.8	5994.7	6040.5	6165.0	6319.9	6505.5	6662.7	6756.6	6750.0	6702.0
12.5°	5470.7	5518.8	5617.0	5859.3	6143.1	6470.6	6763.1	6959.6	7027.3	6992.3
15°	5088.7	5130.2	5204.4	5453.3	5822.2	6319.9	6800.2	7182.3	7354.7	7335.1
17.5°	5077.8	5095.3	5141.1	5259.0	5542.8	6084.2	6760.9	7400.6	7730.2	7728.0
20°	5269.9	5276.4	5302.6	5326.7	5488.2	5905.2	6660.5	7581.8	8151.5	8151.5
22.5°	5536.2	5531.9	5558.1	5536.2	5614.8	5889.9	6597.2	7741.1	8620.9	8655.8
25°	5935.7	5913.9	5907.4	5857.1	5872.4	6031.8	6667.1	7922.3	9177.6	9249.6
27.5°	6468.4	6433.5	6409.5	6293.8	6254.5	6324.3	6881.0	8140.6	9797.6	9922.0
30°	7162.6	7099.3	7064.4	6863.5	6721.6	6732.5	7204.1	8431.0	10445.9	10646.8
32.5°	8110.1	8011.8	7917.9	7588.3	7328.5	7243.4	7621.1	8832.6	11148.9	11469.8
35°	9171.0	9092.4	8992.0	8483.4	8083.9	7887.4	8184.3	9393.7	11971.9	12480.5
37.5°	10192.7	10125.0	10173.0	9487.6	8972.4	8686.4	8922.2	10146.8	12987.0	13738.0
40°	11249.3	11196.9	11203.4	10548.5	9948.2	9627.3	9817.2	11092.1	14150.6	15233.4
42.5°	12397.6	12358.3	12227.3	11646.6	10972.0	10673.0	10847.6	12183.6	15399.3	16936.2
45°	13683.4	13659.4	13537.1	12871.3	12098.5	11762.3	11998.1	13388.7	16654.5	18538.5
47.5°	14794.6	14814.2	14798.9	14237.9	13436.7	12943.3	13225.0	14646.1	17822.5	20044.8
50°	15329.4	15432.0	15582.7	15408.0	14910.3	14408.2	14462.7	15859.9	18935.8	21457.3
52.5°	15050.0	15244.3	15654.7	15934.1	16126.2	16021.5	15875.2	17065.0	19983.7	22732.2
55°	14008.7	14281.6	14962.7	15637.2	16617.4	17379.3	17571.4	18401.0	21005.4	23854.3
57.5°	12111.6	12554.8	13166.0	14530.4	16180.8	18036.4	19549.3	20254.4	22088.2	25052.8
60°	8858.8	9452.6	10212.3	12242.6	14652.7	17684.9	21232.4	23101.1	23627.2	26604.9
62.5°	5669.4	6036.2	6734.7	8647.1	11417.4	15883.9	21747.6	26659.5	26236.0	29150.4
65°	3881.5	4117.2	4756.9	5830.9	7380.9	11823.4	20367.9	29327.2	30379.4	33184.6
67.5°	2820.5	2999.5	3545.3	4486.2	4809.3	6996.7	15805.3	29204.9	34407.2	37341.2
70°	2056.4	2183.1	2641.5	3545.3	3700.3	3892.4	9574.9	24825.7	34319.8	38445.8
72.5°	1523.8	1611.1	1918.9	2750.7	2995.2	2628.4	4739.4	18043.0	29490.9	34773.9
75°	1102.4	1167.9	1395.0	2104.5	2397.0	2001.9	2364.3	10544.2	20570.9	24461.1
77.5°	842.7	892.9	1041.3	1541.2	1918.9	1501.9	1467.0	4850.8	9753.9	9801.9
80°	676.7	709.5	790.3	1085.0	1471.4	1124.3	956.2	1958.2	3082.5	2608.8
82.5°	497.7	552.3	668.0	761.9	1052.2	775.0	582.9	988.9	1172.3	1008.6
85°	283.8	320.9	403.9	545.8	672.4	473.7	334.0	438.8	545.8	447.5
87.5°	100.4	131.0	141.9	213.9	292.5	196.5	128.8	126.6	179.0	133.2
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°
6031.8	0°	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8	6031.8
6097.3	2.5°	6075.4	6064.5	6020.9	5961.9	5900.8	5841.9	5822.2	5780.7	5752.4	5737.1
6239.2	5°	6197.7	6162.8	6060.2	5929.2	5791.6	5643.2	5538.4	5442.4	5372.5	5307.0
6433.5	7.5°	6372.3	6311.2	6134.4	5905.2	5660.7	5414.0	5230.6	5090.9	4997.0	4935.9
6660.5	10°	6575.4	6481.5	6210.8	5868.1	5490.4	5136.7	4920.6	4800.5	4741.6	4708.9
6920.3	12.5°	6809.0	6675.8	6289.4	5782.9	5230.6	4826.7	4678.3	4643.4	4645.5	4647.7
7247.7	15°	7097.1	6911.6	6352.7	5597.4	4892.2	4588.8	4562.6	4619.3	4678.3	4706.7
7618.9	17.5°	7422.4	7160.4	6363.6	5291.7	4560.4	4436.0	4518.9	4641.2	4730.7	4770.0
8033.6	20°	7771.7	7413.7	6285.0	4859.5	4287.5	4311.5	4460.0	4617.2	4715.4	4765.6
8507.4	22.5°	8171.2	7684.4	6097.3	4405.4	4064.9	4176.2	4350.8	4503.6	4606.2	4656.5
9064.1	25°	8627.4	7987.8	5802.6	4023.4	3872.7	4023.4	4198.0	4324.6	4407.6	4453.4
9686.2	27.5°	9133.9	8304.3	5409.6	3719.9	3704.6	3866.2	4010.3	4108.5	4152.2	4187.1
10347.7	30°	9642.6	8592.5	4933.7	3490.7	3558.4	3711.2	3813.8	3857.5	3870.6	3877.1
11085.6	32.5°	10192.7	8841.4	4433.8	3300.8	3418.7	3560.6	3621.7	3641.3	3580.2	3538.7
11980.6	35°	10858.5	9107.7	3944.8	3150.2	3281.1	3403.4	3423.0	3405.6	3333.5	3248.4
13102.7	37.5°	11681.5	9439.5	3554.0	3043.2	3152.3	3233.1	3209.1	3204.7	3211.3	3110.9
14451.8	40°	12690.1	9871.8	3268.0	2960.2	3047.5	3065.0	2997.3	3034.4	3067.2	2914.4
15931.9	42.5°	13810.0	10393.5	3086.8	2903.5	2960.2	2918.7	2814.0	2855.4	2851.1	2650.2
17418.6	45°	14951.8	10961.1	3023.5	2862.0	2879.5	2796.5	2680.8	2691.7	2600.0	2418.8
18844.1	47.5°	16086.9	11570.2	3062.8	2827.1	2779.0	2685.2	2595.7	2547.6	2412.3	2276.9
20210.7	50°	17200.3	12209.8	3206.9	2757.2	2641.5	2586.9	2521.4	2436.3	2292.2	2176.5
21503.1	52.5°	18232.9	12853.8	3368.5	2641.5	2469.0	2501.8	2460.3	2362.1	2220.2	2102.3
22725.6	55°	19210.9	13497.8	3431.8	2482.1	2307.5	2427.6	2403.5	2222.4	2052.1	1956.0
24004.9	57.5°	20276.2	14272.8	3361.9	2279.1	2176.5	2342.4	2250.7	2049.9	1951.7	1879.6
25670.6	60°	21752.0	15488.8	3211.3	2028.1	2052.1	2215.8	2058.6	1975.7	1868.7	1787.9
28168.0	62.5°	24203.5	17757.0	2969.0	1779.2	1905.8	2028.1	1966.9	1884.0	1774.8	1696.2
32438.0	65°	27827.4	20909.3	2512.7	1584.9	1742.1	1844.7	1868.7	1785.7	1672.2	1589.3
36179.8	67.5°	30883.7	22887.2	1901.4	1423.4	1574.0	1696.2	1763.9	1683.1	1563.1	1482.3
37055.2	70°	30715.6	21450.7	1451.7	1264.0	1425.5	1550.0	1637.3	1574.0	1445.2	1368.8
33658.4	72.5°	27281.7	17944.7	1174.5	1102.4	1274.9	1397.2	1501.9	1453.9	1322.9	1248.7
24657.6	75°	20042.6	12738.1	938.7	938.7	1087.2	1237.8	1353.5	1322.9	1202.9	1150.5
10352.1	77.5°	8448.4	5344.1	735.7	779.4	903.8	1063.1	1207.2	1218.1	1113.4	1178.9
2737.6	80°	2246.4	1473.6	561.0	613.4	709.5	877.6	1050.1	1045.7	932.2	871.0
1017.3	82.5°	855.8	580.7	399.5	432.2	513.0	672.4	831.7	857.9	744.4	644.0
399.5	85°	329.6	248.9	246.7	259.8	299.1	445.3	628.7	650.6	561.0	475.9
111.3	87.5°	85.1	74.2	91.7	87.3	137.5	238.0	360.2	373.3	342.7	198.7
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°
6031.8
5754.5
5333.2
4949.0
4717.6
4652.1
4704.5
4778.7
4778.7
4669.6
4466.5
4200.2
3892.4
3551.8
3252.8
3117.4
2918.7
2648.0
2425.4
2276.9
2167.8
2104.5
1947.3
1873.1
1783.6
1696.2
1593.6
1484.5
1375.3
1248.7
1135.2
1069.7
809.9
644.0
491.2
283.8
0.0

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