

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: P957408

Luminaire Tested: **GALN-SB9D-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957408
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-SB9D-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 92506 lumens
Efficiency: N/A
Efficacy: 140.6 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

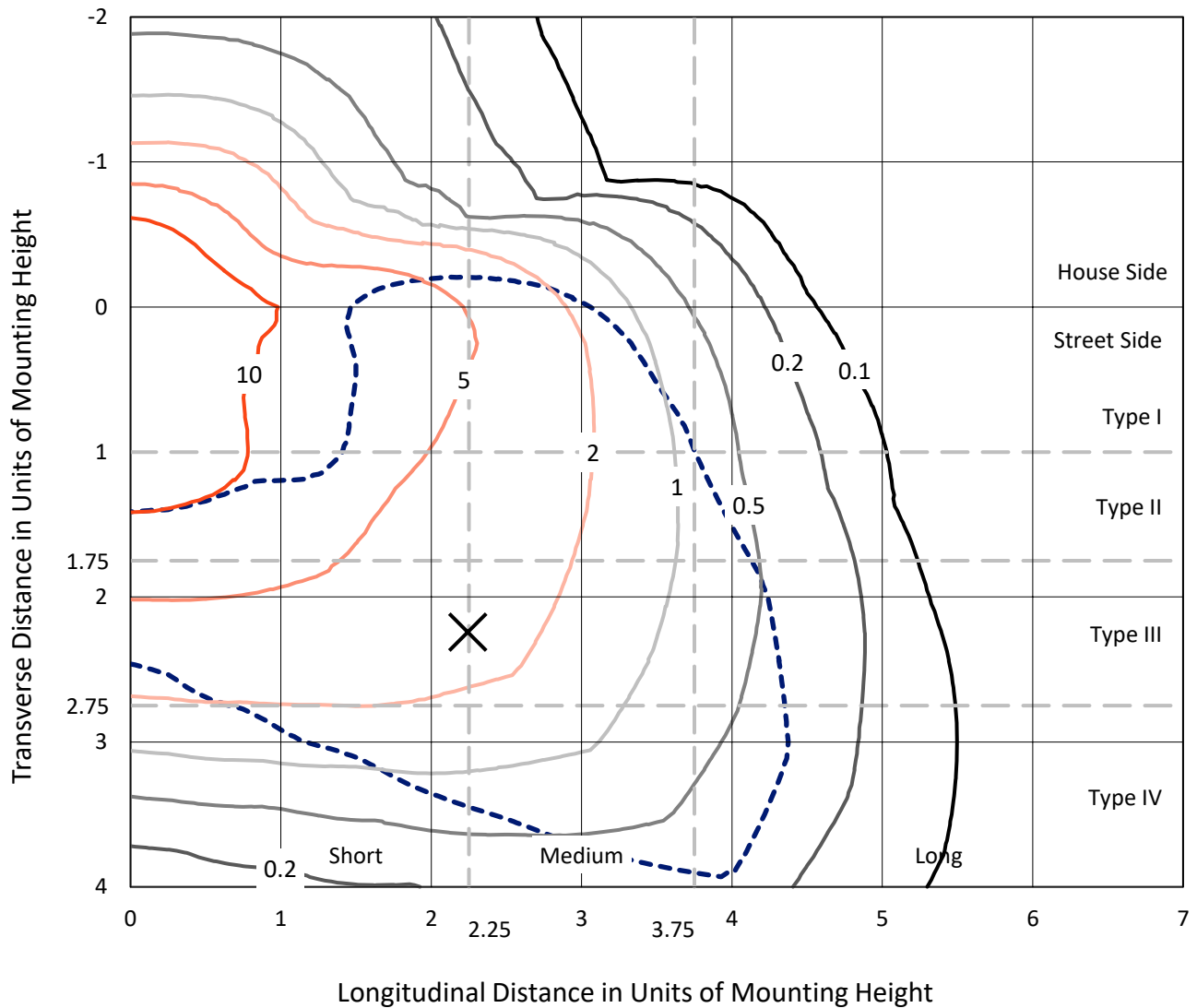
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957408
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Iso-Footcandle Lines of Horizontal Illumination

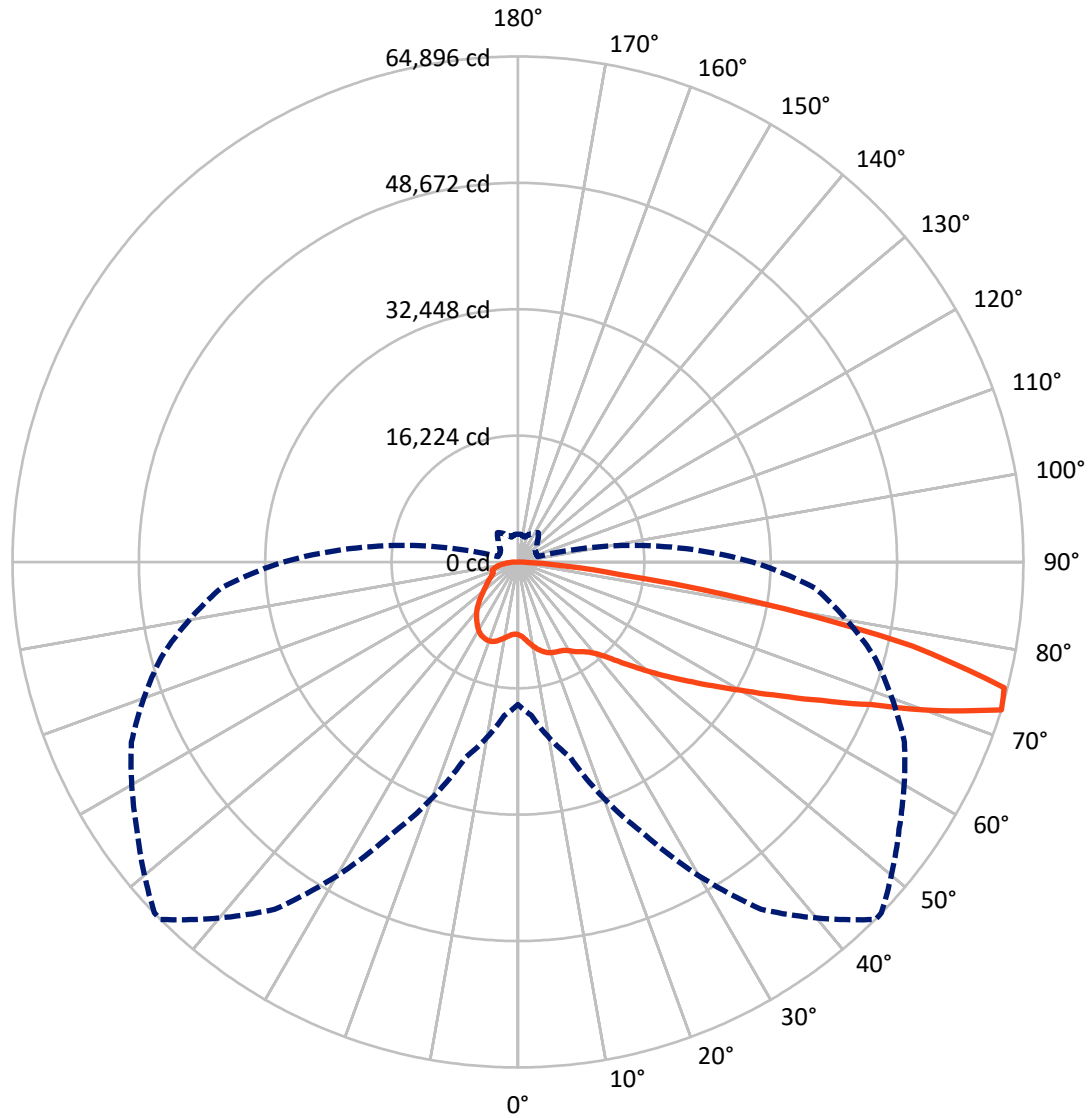
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P957408
CATALOG NUMBER: GALN-SB9D-735-U-T4W

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	20912.4	0.0	20912.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	71593.6	0.0	71593.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	92506.0	0.0	92506.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	949.8	1.0
10°-20°	3166.8	3.4
20°-30°	5508.9	6.0
30°-40°	7897.3	8.5
40°-50°	11119.8	12.0
50°-60°	17032.3	18.4
60°-70°	24673.7	26.7
70°-80°	19703.5	21.3
80°-90°	2454.0	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°	92506.0	100.0
0°-180°	92506.0	100.0



REPORT NUMBER: P957408

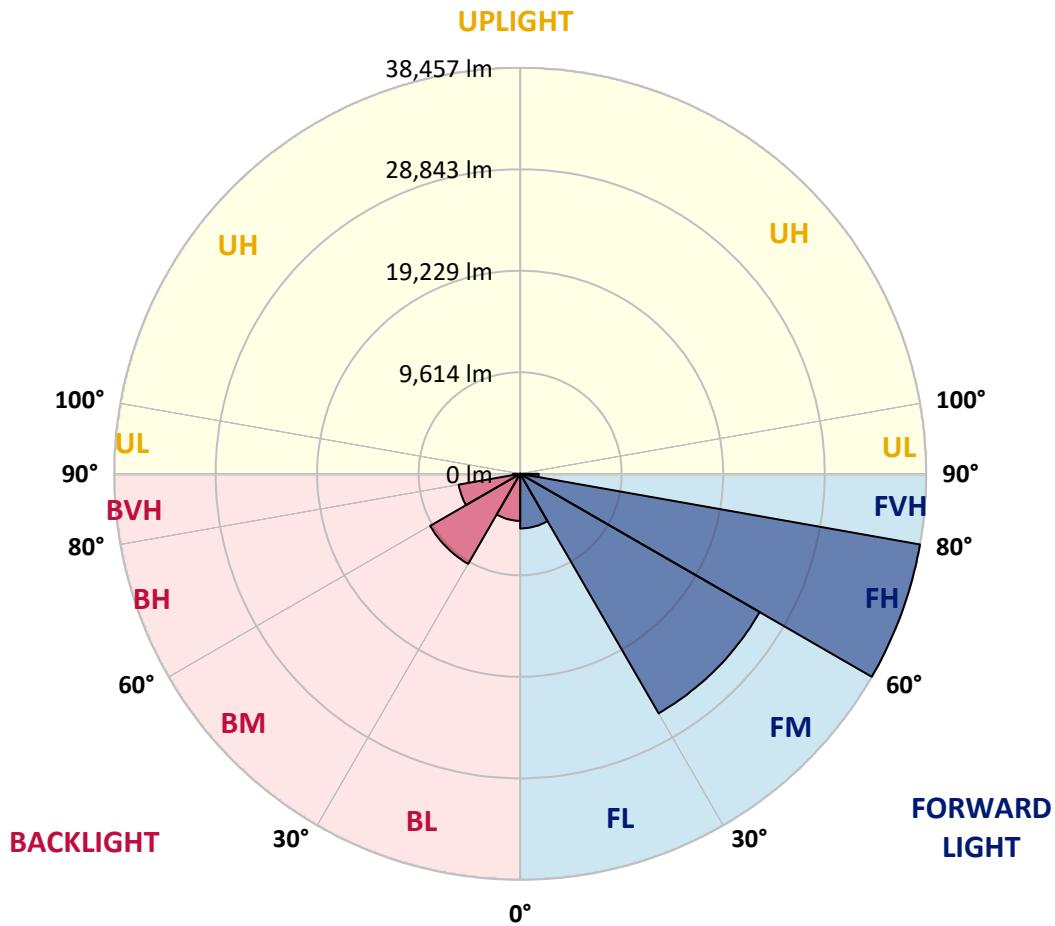
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5173.1	5.6			
FM (30°-60°)	26202.5	28.3			
FH (60°-80°)	38457.5	41.6			G5
FVH (80°-90°)	1760.5	1.9			G5
BL (0°-30°)	4452.4	4.8	B4/5000		
BM (30°-60°)	9846.8	10.6	B5		
BH (60°-80°)	5919.8	6.4	B5		G5
BVH (80°-90°)	693.5	0.7			G4/750
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



REPORT NUMBER: P957408

CATALOG NUMBER: GALN-SB9D-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1
2.5°	9697.5	9760.9	9702.4	9648.8	9624.4	9561.1	9556.2	9517.2	9492.9	9424.6
5°	10374.9	10457.7	10360.3	10253.1	10155.6	9999.7	9980.2	9868.1	9741.4	9595.2
7.5°	11140.0	11213.1	11101.0	10940.2	10769.6	10511.4	10506.5	10301.8	10102.0	9853.5
10°	11807.6	11905.1	11754.0	11534.7	11320.3	11027.9	10993.8	10759.9	10506.5	10184.9
12.5°	12397.3	12465.5	12319.3	12051.3	11802.7	11510.3	11466.5	11208.2	10925.6	10560.1
15°	12865.1	12952.8	12757.9	12470.4	12207.2	11919.7	11880.7	11646.8	11364.2	10979.2
17.5°	13172.1	13245.2	13045.4	12723.8	12470.4	12231.6	12202.3	12007.4	11758.9	11369.0
20°	13289.0	13367.0	13157.5	12831.0	12597.1	12411.9	12397.3	12255.9	12085.4	11729.6
22.5°	13406.0	13479.1	13206.2	12865.1	12660.4	12543.5	12538.6	12446.0	12377.8	12085.4
25°	13878.7	13898.2	13532.7	13040.5	12748.1	12645.8	12640.9	12636.0	12665.3	12436.2
27.5°	14288.0	14283.2	13971.3	13508.3	13055.1	12840.7	12835.8	12884.6	12977.2	12787.1
30°	14887.4	14833.8	14463.5	13981.0	13566.8	13235.4	13206.2	13162.3	13235.4	13084.4
32.5°	16159.3	15988.8	15389.4	14531.7	13990.8	13737.4	13698.4	13425.5	13454.7	13362.1
35°	17981.9	17757.7	16958.5	15574.5	14517.1	14156.5	14137.0	13791.0	13732.5	13649.7
37.5°	20150.4	19872.6	18941.9	17085.2	15423.5	14643.8	14614.5	14302.7	14063.9	13976.2
40°	22328.7	21977.8	21207.9	18927.3	16758.7	15457.6	15365.0	14892.3	14619.4	14473.2
42.5°	24443.6	24151.3	23493.4	20993.5	18405.8	16646.6	16442.0	15633.0	15428.3	15291.9
45°	26314.9	26051.8	25569.3	23201.0	20335.6	18264.5	18064.7	16744.1	16680.7	16680.7
47.5°	27835.4	27776.9	27265.2	25452.4	22611.3	20106.6	19760.6	18288.9	18459.4	18722.6
50°	29521.5	29360.6	28814.9	27669.7	25286.7	22216.6	21934.0	20184.5	20822.9	21544.1
52.5°	31071.1	31158.8	30549.7	29979.5	28308.0	24570.4	24073.3	22421.3	23800.4	24994.3
55°	32664.6	32669.5	32498.9	32421.0	31475.6	27172.6	26626.8	25111.3	27304.2	28785.6
57.5°	34160.7	34170.4	34423.8	35110.9	35149.9	30174.5	29555.6	28415.3	31197.8	32708.5
60°	35495.9	35564.1	36256.1	37864.3	38380.8	33614.9	33030.1	32318.6	35223.0	36743.4
62.5°	35944.2	36192.8	37732.7	40018.2	41572.7	37835.0	37260.0	36836.0	39452.9	40866.1
65°	35184.0	35754.2	38731.7	41796.9	44857.2	42849.5	42279.3	41816.4	43848.5	45178.8
67.5°	33317.6	34053.5	38673.2	43663.3	48843.4	48882.4	48351.3	47264.5	48560.8	49072.5
70°	28400.6	29502.0	35266.9	44360.2	53419.3	57132.6	56621.0	53823.8	53263.4	50787.8
72.5°	18298.6	19780.1	25968.9	38624.5	54437.8	64895.5	64866.3	59744.6	54749.7	47454.6
75°	6676.2	7582.6	12065.9	24243.9	45695.4	64500.8	64690.9	58731.0	49978.9	36655.7
77.5°	2431.7	2660.7	3937.5	9317.4	28103.4	51752.7	52147.4	46952.7	35573.9	18396.1
80°	1276.8	1403.5	2017.5	3615.9	12041.5	30734.9	31353.8	27903.6	16719.7	5540.8
82.5°	706.6	765.1	1130.6	1963.9	5423.8	13142.8	13513.2	11023.0	5881.9	2348.9
85°	380.1	404.5	531.2	1072.1	2651.0	4556.4	4658.7	3294.2	2344.0	1379.1
87.5°	112.1	136.4	175.4	341.1	1038.0	1023.4	1047.7	653.0	925.9	696.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957408
 CATALOG NUMBER: GALN-SB9D-735-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9332.1	0°	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1	9332.1
9405.2	2.5°	9375.9	9361.3	9307.7	9283.3	9254.1	9249.2	9273.6	9278.5	9283.3	9288.2
9512.4	5°	9463.6	9414.9	9366.2	9336.9	9346.7	9351.5	9400.3	9434.4	9458.8	9478.2
9712.2	7.5°	9634.2	9595.2	9512.4	9507.5	9522.1	9566.0	9629.3	9707.3	9751.1	9785.3
9970.4	10°	9887.6	9814.5	9717.0	9731.7	9760.9	9824.2	9955.8	10019.2	10092.3	10155.6
10287.2	12.5°	10145.9	10082.5	9970.4	9980.2	10028.9	10141.0	10267.7	10345.7	10394.4	10443.1
10628.3	15°	10482.1	10370.0	10248.2	10248.2	10335.9	10457.7	10516.2	10579.6	10608.8	10662.4
10993.8	17.5°	10828.1	10681.9	10521.1	10511.4	10618.6	10677.0	10711.2	10720.9	10730.6	10789.1
11349.5	20°	11174.1	11013.3	10784.2	10764.8	10789.1	10779.4	10774.5	10764.8	10779.4	10852.5
11715.0	22.5°	11515.2	11330.0	11013.3	10925.6	10857.3	10764.8	10759.9	10755.0	10764.8	10837.9
12109.7	25°	11914.8	11690.7	11266.7	11003.5	10774.5	10647.8	10662.4	10667.3	10677.0	10735.5
12519.1	27.5°	12348.5	12100.0	11500.6	10979.2	10565.0	10477.2	10452.9	10467.5	10501.6	10594.2
12928.4	30°	12782.2	12489.8	11715.0	10881.7	10301.8	10180.0	10102.0	10136.1	10243.3	10335.9
13284.2	32.5°	13177.0	12884.6	11885.6	10667.3	9965.6	9775.5	9673.2	9717.0	9824.2	9858.4
13678.9	35°	13639.9	13308.5	11958.7	10326.2	9600.1	9307.7	9171.2	9107.9	9161.5	9127.4
14141.8	37.5°	14156.5	13810.5	11948.9	9877.8	9171.2	8835.0	8644.9	8406.2	8294.1	8177.1
14824.1	40°	14921.5	14424.5	11832.0	9336.9	8640.1	8333.1	7991.9	7587.5	7334.1	7105.0
15925.4	42.5°	15964.4	15277.3	11617.6	8742.4	8040.7	7753.2	7290.2	6817.5	6417.9	6037.8
17596.9	45°	17518.9	16393.2	11349.5	8108.9	7392.5	7109.9	6608.0	6076.8	5623.6	5136.3
19970.1	47.5°	19760.6	17894.2	11096.1	7387.7	6710.3	6452.0	5998.8	5506.6	4970.6	4497.9
23400.8	50°	22840.4	20048.1	10862.2	6685.9	6037.8	5842.9	5482.3	4980.3	4439.4	4059.3
27421.1	52.5°	26758.4	22976.8	10764.8	6008.6	5409.2	5336.1	5048.6	4580.7	4069.1	3747.4
32109.1	55°	31256.3	26480.6	10764.8	5360.4	4858.5	4882.9	4683.1	4249.4	3805.9	3518.4
36943.2	57.5°	35846.8	30028.3	10569.8	4761.1	4390.7	4493.0	4366.3	3986.2	3586.6	3289.4
42025.9	60°	40076.7	33000.9	9780.4	4215.3	3976.5	4137.3	4054.4	3727.9	3240.6	2992.1
46275.3	62.5°	43327.0	34677.2	8260.0	3781.6	3635.4	3820.5	3776.7	3386.8	3177.3	3074.9
49764.5	65°	44954.7	34404.3	6315.6	3396.6	3347.8	3635.4	3542.8	3528.2	3362.5	3245.5
50899.9	67.5°	43955.7	32055.5	4580.7	3113.9	3182.2	3464.8	3820.5	3879.0	3572.0	3343.0
47703.1	70°	39574.7	27806.1	3411.2	2845.9	2972.6	3469.7	4356.6	4059.3	3503.8	3235.8
38259.0	72.5°	30106.2	20735.2	2646.1	2563.3	2699.7	3494.0	4595.4	3976.5	3308.9	3576.9
23834.5	75°	17216.8	11383.6	2124.7	2217.3	2358.6	3265.0	4473.5	3762.1	3157.8	3284.5
9444.1	77.5°	6564.1	4376.1	1754.3	1876.2	1895.6	2850.8	4278.6	3747.4	3006.7	2933.6
2831.3	80°	2275.8	1710.5	1452.2	1491.2	1466.8	2534.0	4103.2	3260.1	2460.9	2202.7
1169.6	82.5°	930.8	852.8	1150.1	1101.3	1042.9	1968.7	3313.7	2665.6	2012.6	1778.7
565.3	85°	404.5	540.9	760.2	667.6	604.3	1364.5	2655.9	2256.3	1700.7	1466.8
185.2	87.5°	82.8	204.7	321.6	302.1	311.9	911.3	1885.9	1603.3	1203.7	901.5
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°
9332.1
9307.7
9488.0
9795.0
10141.0
10462.6
10681.9
10808.6
10881.7
10886.6
10813.5
10686.8
10438.3
9980.2
9234.6
8250.2
7119.7
6003.7
5077.8
4444.3
4035.0
3723.1
3489.2
3240.6
2953.1
3040.8
3206.5
3304.0
3191.9
3547.6
3284.5
2675.4
2129.6
1759.2
1461.9
706.6
0.0

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