

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: P944377

Luminaire Tested: **GALN-SB9B-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-750-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54300 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

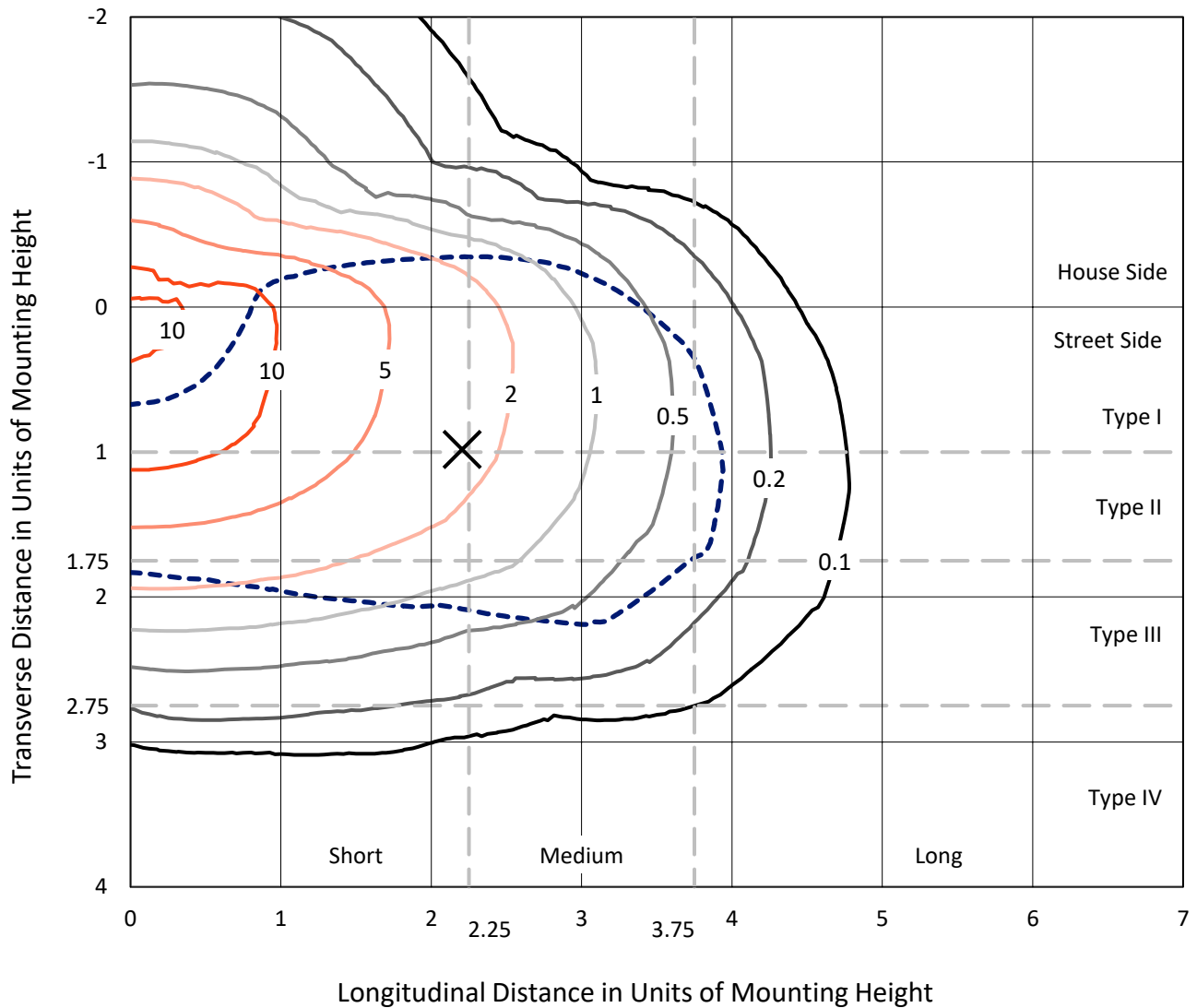
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

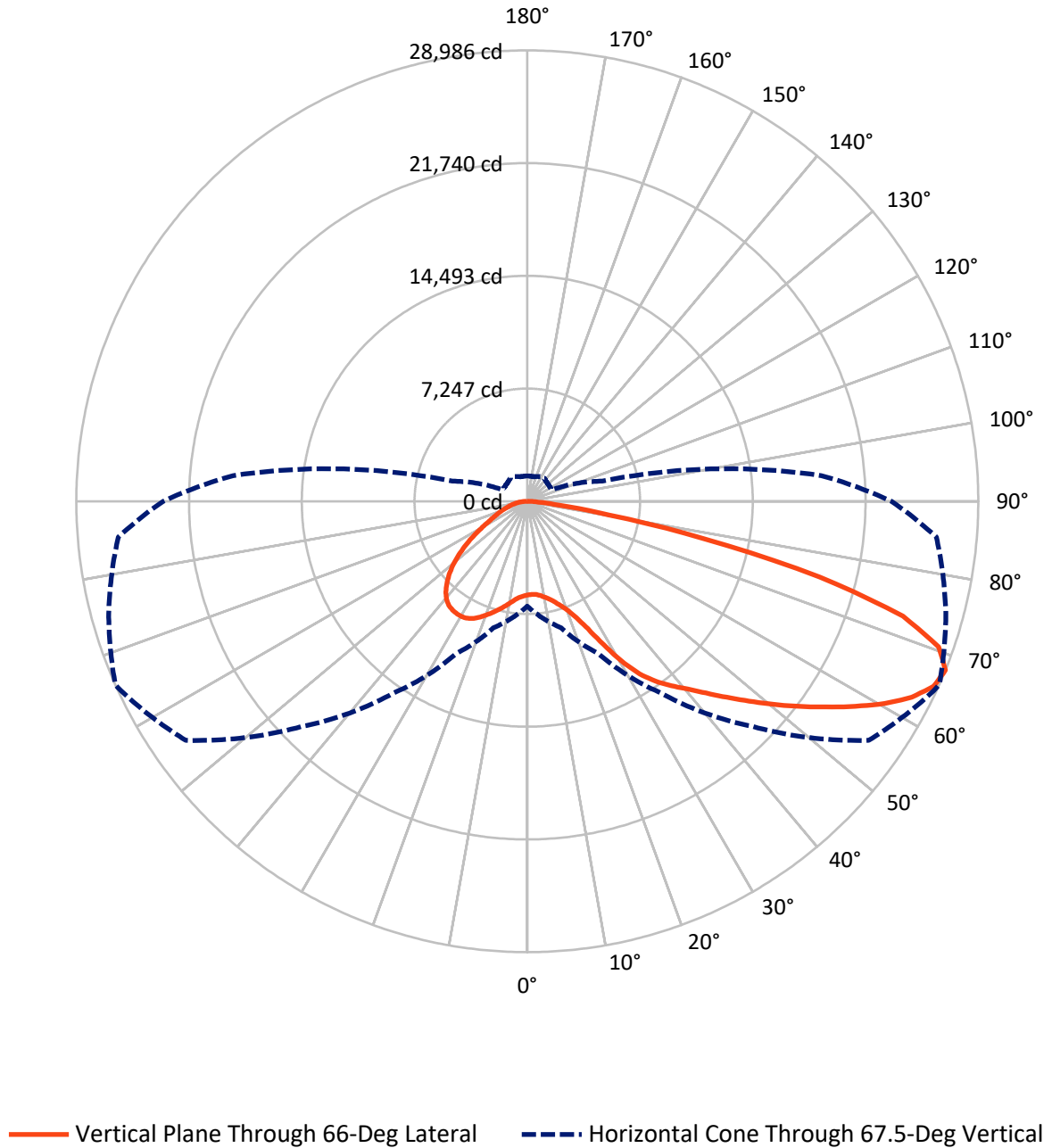
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13501.5	0.0	13501.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	40798.5	0.0	40798.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	54300.0	0.0	54300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.1	1.1
10°-20°	1972.8	3.6
20°-30°	3802.4	7.0
30°-40°	6667.1	12.3
40°-50°	9911.8	18.3
50°-60°	12564.1	23.1
60°-70°	12293.7	22.6
70°-80°	5864.2	10.8
80°-90°	626.7	1.2
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°	54300.0	100.0
0°-180°	54300.0	100.0

Coefficient of Utilization



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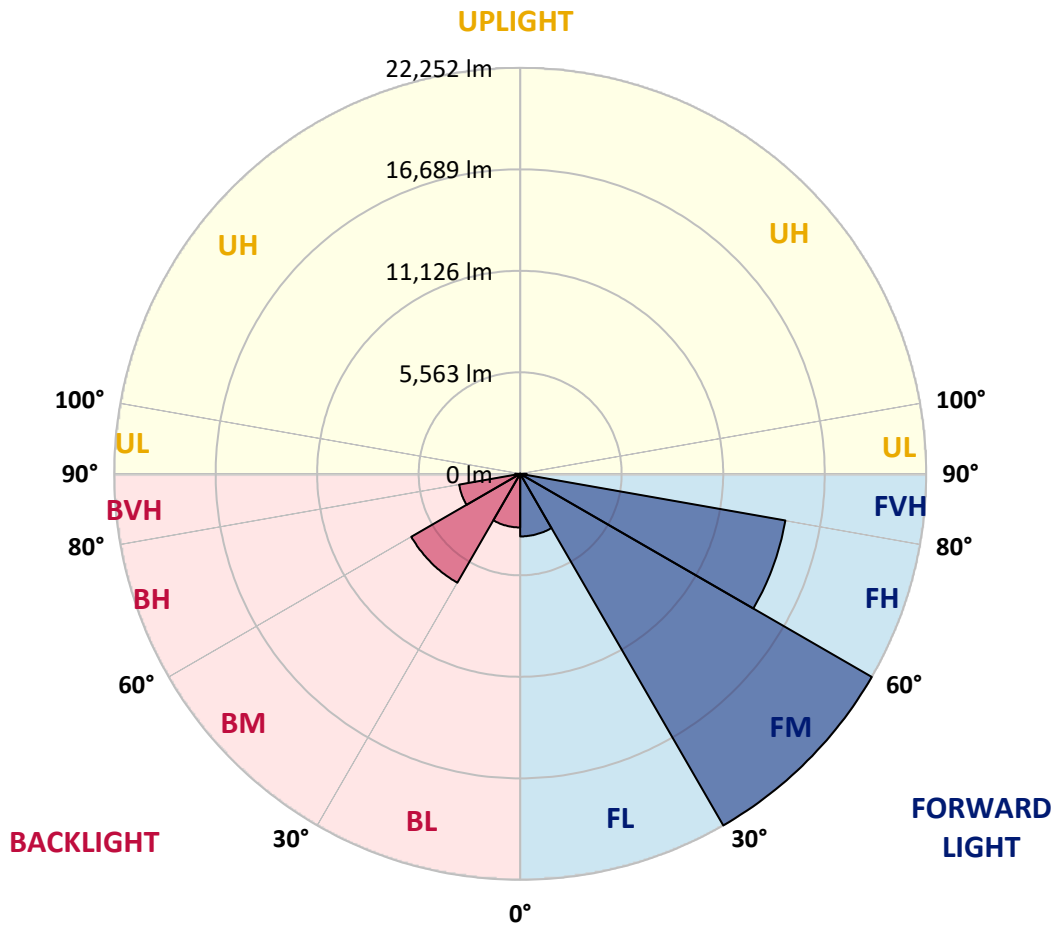
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3431.2	6.3			
FM (30°-60°)	22251.7	41.0			
FH (60°-80°)	14760.2	27.2			G5
FVH (80°-90°)	355.3	0.7			G3/500
BL (0°-30°)	2941.1	5.4	B4/5000		
BM (30°-60°)	6891.3	12.7	B4/8500		
BH (60°-80°)	3397.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	271.4	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6
2.5°	5959.8	5994.1	5985.5	5971.2	5968.4	5974.1	5982.6	5991.2	5988.4	6002.6
5°	5942.7	5976.9	5974.1	5974.1	5985.5	6008.3	6022.6	6036.9	6022.6	6039.7
7.5°	5954.1	5979.8	5991.2	6002.6	6031.1	6073.9	6108.2	6139.6	6122.4	6142.4
10°	6099.6	6119.6	6131.0	6131.0	6151.0	6199.5	6233.7	6290.8	6276.5	6307.9
12.5°	6364.9	6384.9	6384.9	6373.5	6387.8	6419.1	6430.6	6493.3	6467.6	6519.0
15°	6690.2	6730.1	6698.7	6678.8	6684.5	6715.9	6713.0	6761.5	6735.8	6778.6
17.5°	7049.7	7101.0	7049.7	7046.8	7035.4	7069.6	7072.5	7115.3	7069.6	7101.0
20°	7474.7	7546.1	7503.3	7517.5	7491.9	7506.1	7520.4	7583.2	7511.8	7534.7
22.5°	8073.9	8159.5	8113.8	8168.0	8150.9	8139.5	8136.6	8247.9	8136.6	8145.2
25°	8946.9	9049.6	8969.7	9043.9	9043.9	9081.0	9123.7	9266.4	9081.0	9026.7
27.5°	10236.4	10339.1	10182.2	10227.8	10213.6	10304.9	10259.2	10613.0	10413.3	10324.8
30°	11788.4	11971.0	11674.3	11662.9	11648.6	11794.1	11859.7	12093.7	11891.1	11802.7
32.5°	13465.9	13657.1	13303.3	13200.6	13146.4	13234.9	13180.7	13368.9	13229.2	13092.2
35°	15240.5	15428.8	15092.1	14892.4	14675.6	14490.2	14296.2	14344.7	14213.4	14005.2
37.5°	16918.0	17263.2	16906.6	16692.6	16293.2	15930.9	15388.8	15163.5	15040.8	14849.6
40°	18626.9	18823.8	18552.8	18370.2	17936.5	17368.8	16501.5	16025.0	15859.6	15674.1
42.5°	19885.1	20073.4	19927.9	19802.4	19462.9	18803.8	17682.6	17086.3	16846.7	16638.4
45°	20883.6	21023.4	20932.1	20977.8	20832.3	20193.2	18906.5	18224.7	17976.5	17722.6
47.5°	21285.9	21434.2	21579.8	21850.8	22099.0	21628.3	20221.7	19457.2	19194.7	18935.1
50°	21240.2	21391.5	21813.7	22390.0	23160.3	23003.4	21608.3	20769.5	20527.0	20230.3
52.5°	20875.1	21046.2	21588.3	22546.9	23773.7	24033.3	23020.5	22124.7	21896.4	21542.7
55°	19916.5	20019.2	20832.3	22190.3	23919.2	24752.2	24404.2	23568.3	23340.0	22846.5
57.5°	18139.1	18287.4	19471.4	21228.8	23554.0	25240.1	25619.5	25086.0	24866.4	24156.0
60°	15819.6	16056.4	17411.6	19614.1	22623.9	25237.2	26723.6	26578.1	26395.5	25445.5
62.5°	13194.9	13468.8	14772.6	17331.7	20997.7	24521.1	27414.0	27827.7	27733.6	26635.2
65°	10133.7	10322.0	11620.1	14378.9	18467.2	22983.4	27493.9	28680.8	28697.9	27539.6
67.5°	6747.2	7289.3	8416.2	10789.9	15077.9	20470.0	26792.1	28820.5	28986.0	27850.5
70°	3292.3	4005.5	5109.6	7012.6	10789.9	16615.6	24957.6	27673.7	28041.7	26943.3
72.5°	1366.6	1597.7	2199.6	3460.6	6193.8	11212.1	21271.6	24563.9	25245.8	23873.5
75°	921.5	998.5	1258.2	1774.5	2821.6	5529.0	15340.3	18316.0	19414.4	18030.7
77.5°	710.4	758.9	915.8	1241.0	1677.5	2091.2	8210.8	11038.1	11605.8	10744.2
80°	559.2	596.3	684.7	904.4	1189.7	1118.4	2798.7	5001.2	5329.3	4470.6
82.5°	485.0	499.3	490.7	613.4	790.3	653.3	918.7	1845.9	2037.0	1477.8
85°	350.9	390.9	408.0	379.4	419.4	330.9	376.6	653.3	718.9	641.9
87.5°	142.6	211.1	259.6	245.4	154.1	94.1	117.0	191.1	219.7	239.6
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°
6022.6	0°	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6
6025.4	2.5°	6028.3	6048.3	6062.5	6079.6	6091.1	6108.2	6142.4	6162.4	6165.2	6179.5
6071.1	5°	6082.5	6111.0	6142.4	6188.1	6239.4	6282.2	6347.8	6393.5	6410.6	6424.9
6182.4	7.5°	6199.5	6239.4	6296.5	6376.4	6450.5	6507.6	6587.5	6641.7	6695.9	6715.9
6359.2	10°	6373.5	6430.6	6513.3	6621.7	6701.6	6775.8	6858.5	6904.2	6958.4	6981.2
6570.4	12.5°	6590.3	6650.2	6758.6	6909.9	6984.0	7035.4	7063.9	7052.5	7063.9	7083.9
6824.3	15°	6838.5	6904.2	7026.8	7189.4	7240.8	7195.2	7132.4	7075.3	7066.8	7072.5
7132.4	17.5°	7132.4	7180.9	7323.5	7460.5	7423.4	7235.1	7098.2	7006.9	6961.2	6946.9
7526.1	20°	7543.2	7543.2	7660.2	7745.8	7497.6	7178.0	6964.1	6815.7	6721.6	6681.6
8062.5	22.5°	8042.5	7996.8	8071.0	8011.1	7483.3	7018.3	6721.6	6464.8	6322.1	6265.1
8812.8	25°	8675.8	8621.6	8601.7	8230.8	7380.6	6764.4	6282.2	5971.2	5845.7	5814.3
9894.0	27.5°	9631.6	9494.6	9235.0	8350.6	7192.3	6364.9	5768.7	5480.5	5409.2	5412.1
11283.4	30°	10904.0	10630.1	9993.9	8370.6	6884.2	5800.1	5243.7	5038.3	5004.1	5018.3
12450.3	32.5°	12082.3	11822.6	10769.9	8279.3	6410.6	5246.6	4773.0	4636.1	4584.7	4601.8
13340.4	35°	13006.6	12935.3	11488.8	8150.9	5828.6	4727.3	4350.8	4233.8	4133.9	4111.1
14179.2	37.5°	13879.6	13851.1	12028.1	7971.2	5252.3	4359.3	4011.3	3857.2	3711.7	3631.8
15106.4	40°	14838.2	14809.7	12381.8	7694.4	4741.6	4039.8	3706.0	3503.4	3323.7	3178.2
16156.3	42.5°	15916.6	15748.3	12550.1	7297.9	4308.0	3768.8	3457.8	3183.9	2947.1	2813.0
17343.1	45°	17094.9	16715.5	12547.3	6792.9	3942.8	3520.5	3192.5	2804.5	2584.8	2459.2
18561.3	47.5°	18344.5	17639.8	12393.2	6233.7	3589.0	3246.7	2781.6	2484.9	2339.4	2262.4
19885.1	50°	19634.0	18504.3	12130.8	5591.8	3226.7	2935.7	2524.9	2322.3	2211.0	2139.7
21197.5	52.5°	20846.5	19288.8	11814.1	4864.3	2858.7	2633.3	2410.7	2253.8	2136.9	2057.0
22469.9	55°	21973.5	19965.0	11366.2	4119.7	2559.1	2430.7	2356.5	2225.3	2091.2	1997.1
23762.3	57.5°	22974.8	20404.3	10593.0	3420.7	2345.1	2290.9	2299.5	2176.8	2022.7	1942.9
25034.7	60°	23807.9	20726.7	9449.0	2773.1	2171.1	2154.0	2211.0	2085.5	1905.8	1814.5
26110.2	62.5°	24307.2	20721.0	8045.3	2271.0	2022.7	2028.5	2094.1	1971.4	1788.8	1703.2
26672.3	65°	24264.4	20213.2	6504.7	1942.9	1880.1	1885.8	1971.4	1845.9	1691.8	1640.4
26389.8	67.5°	23405.6	18975.0	4989.8	1728.9	1723.2	1748.9	1848.7	1760.3	1631.9	1626.2
24706.6	70°	21080.5	16404.5	3594.7	1557.7	1560.6	1597.7	1728.9	1706.1	1600.5	1611.9
20772.4	72.5°	16903.8	12507.4	2413.6	1378.0	1380.8	1440.7	1614.8	1663.3	1569.1	1720.3
14738.4	75°	11257.8	7800.0	1552.0	1186.8	1189.7	1266.7	1514.9	1580.5	1483.5	1714.6
7668.7	77.5°	5409.2	3506.3	1124.1	998.5	998.5	1069.9	1309.5	1415.1	1263.9	1332.3
2465.0	80°	1868.7	1318.1	884.4	804.5	787.4	835.9	1104.1	1226.8	1089.8	1004.2
804.5	82.5°	736.1	684.7	710.4	624.8	567.7	599.1	858.7	1012.8	801.7	724.7
453.6	85°	422.2	445.1	502.1	413.7	328.1	368.0	630.5	727.5	604.8	533.5
148.4	87.5°	114.1	156.9	231.1	214.0	148.4	156.9	299.6	402.3	348.1	268.2
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°
6022.6
6176.6
6422.0
6718.7
6992.6
7089.6
7092.4
6966.9
6673.1
6256.5
5820.0
5420.6
5066.8
4624.6
4128.2
3634.7
3192.5
2821.6
2453.5
2245.3
2114.0
2022.7
1960.0
1891.5
1774.5
1677.5
1637.6
1634.7
1609.1
1743.2
1728.9
1221.1
941.5
721.8
544.9
276.7
0.0

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