

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: P944817

Luminaire Tested: **GALN-SB9D-940-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944817  
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-SB9D-940-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

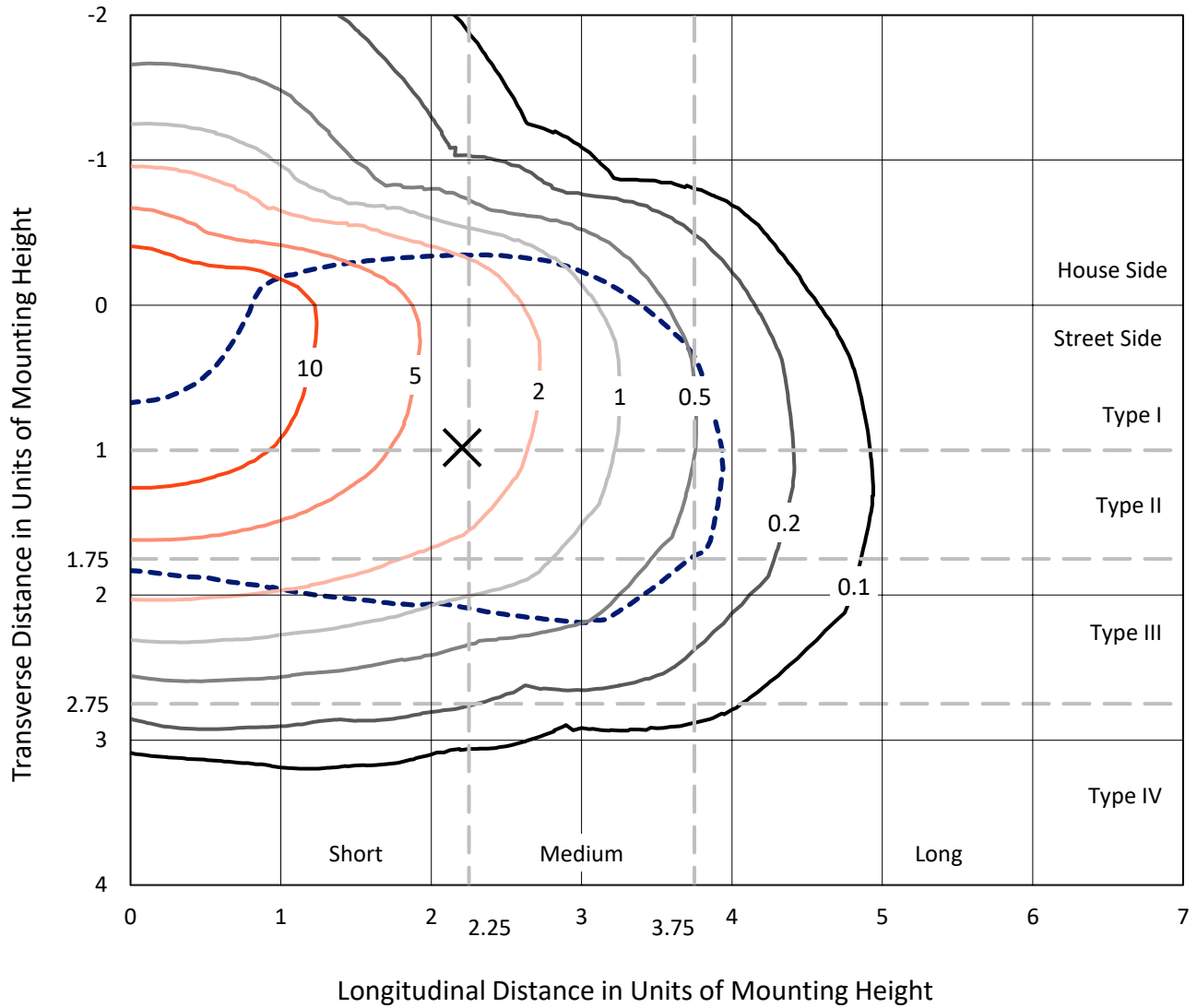
Lumens per Lamp: N/A  
Luminaire Lumens: 67210 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

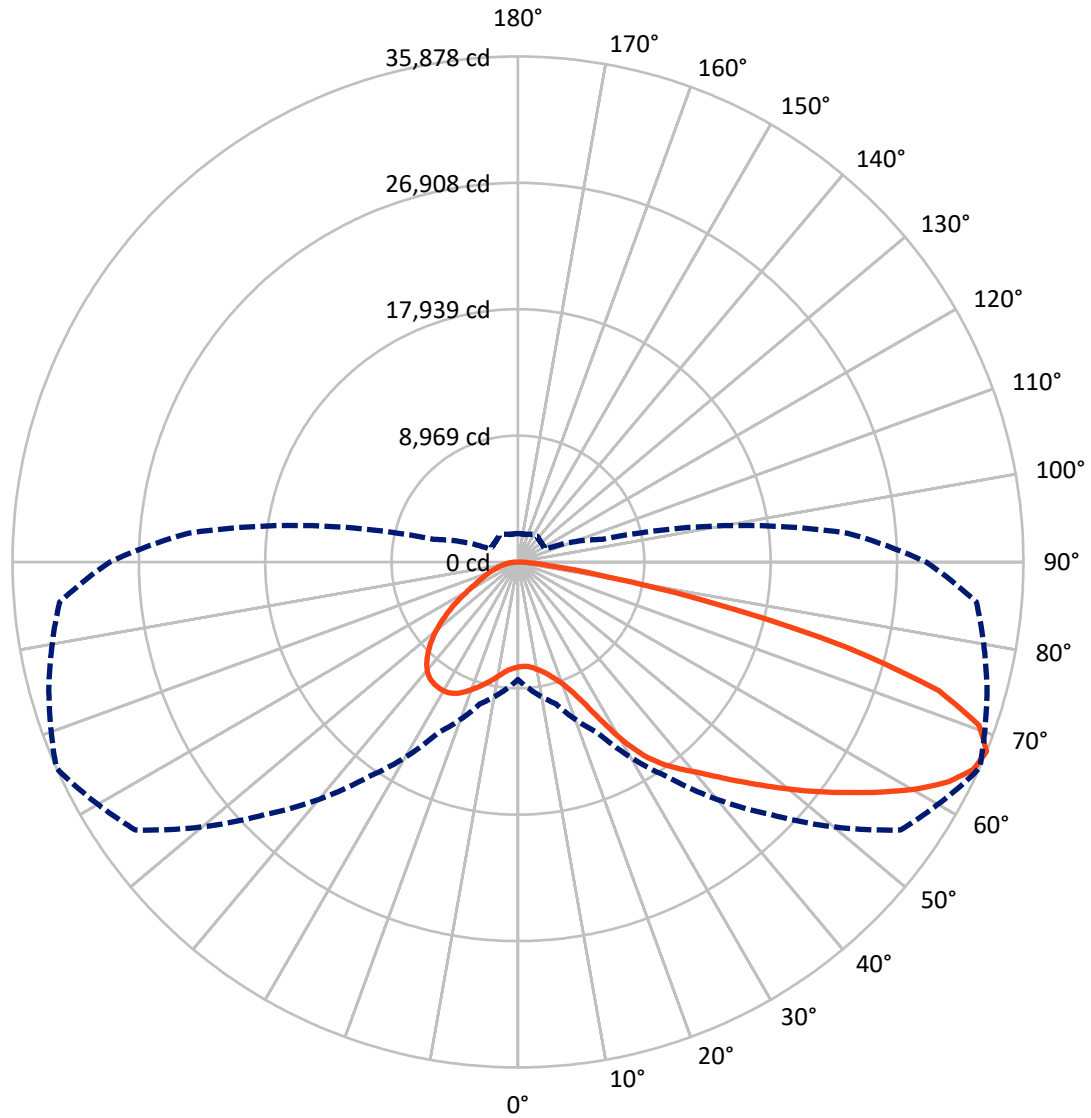
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16711.6	0.0	16711.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	50498.4	0.0	50498.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	67210.0	0.0	67210.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	739.1	1.1
10°-20°	2441.8	3.6
20°-30°	4706.5	7.0
30°-40°	8252.2	12.3
40°-50°	12268.3	18.3
50°-60°	15551.3	23.1
60°-70°	15216.6	22.6
70°-80°	7258.4	10.8
80°-90°	775.7	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°	67210.0	100.0
0°-180°	67210.0	100.0

**Coefficient of Utilization**



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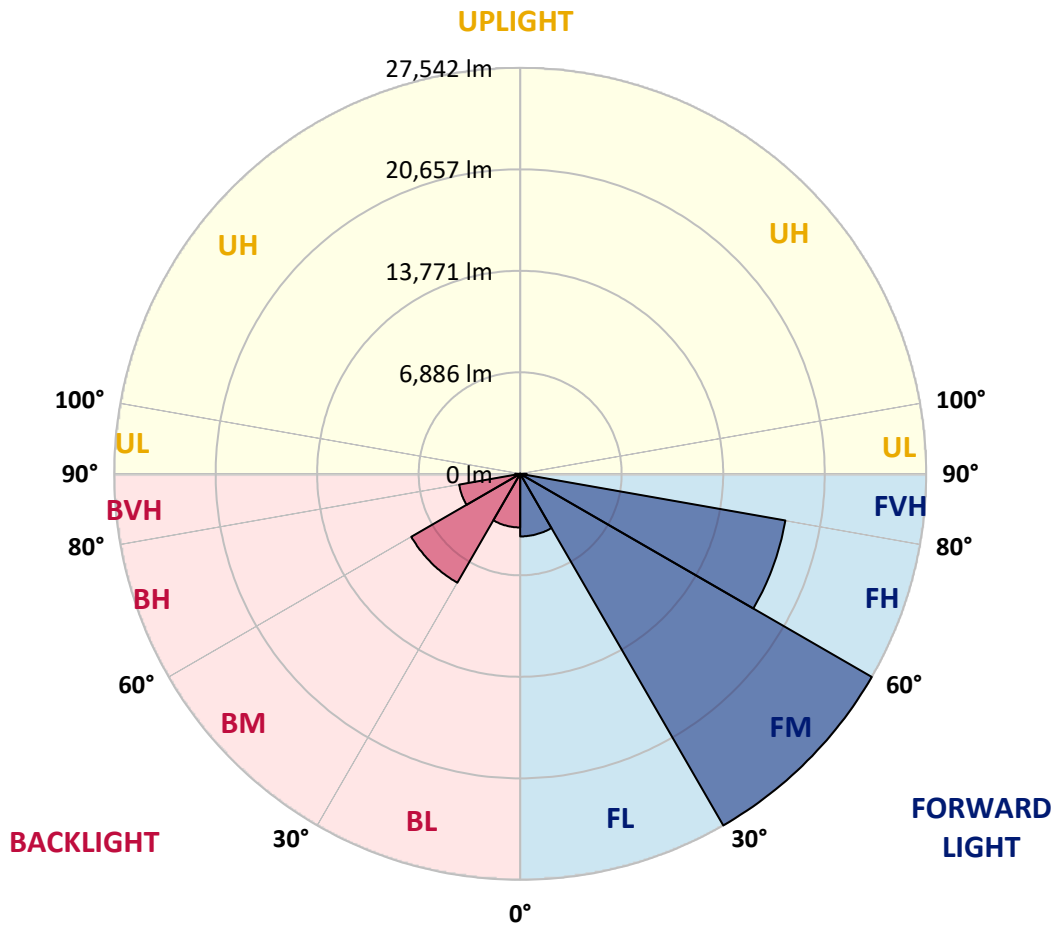
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4247.0	6.3			
FM (30°-60°)	27542.1	41.0			
FH (60°-80°)	18269.5	27.2			G5
FVH (80°-90°)	439.8	0.7			G3/500
BL (0°-30°)	3640.4	5.4	B4/5000		
BM (30°-60°)	8529.8	12.7	B5		
BH (60°-80°)	4205.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	335.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5
2.5°	7376.8	7419.2	7408.6	7390.9	7387.4	7394.4	7405.0	7415.6	7412.1	7429.8
5°	7355.6	7398.0	7394.4	7394.4	7408.6	7436.8	7454.5	7472.1	7454.5	7475.7
7.5°	7369.7	7401.5	7415.6	7429.8	7465.1	7518.0	7560.4	7599.3	7578.1	7602.8
10°	7549.8	7574.5	7588.7	7588.7	7613.4	7673.4	7715.8	7786.4	7768.8	7807.6
12.5°	7878.2	7902.9	7902.9	7888.8	7906.5	7945.3	7959.4	8037.1	8005.4	8068.9
15°	8280.8	8330.2	8291.4	8266.7	8273.7	8312.6	8309.0	8369.1	8337.3	8390.3
17.5°	8725.7	8789.3	8725.7	8722.2	8708.1	8750.4	8754.0	8806.9	8750.4	8789.3
20°	9251.9	9340.2	9287.2	9304.9	9273.1	9290.7	9308.4	9386.1	9297.8	9326.0
22.5°	9993.4	10099.4	10042.9	10110.0	10088.8	10074.7	10071.1	10208.9	10071.1	10081.7
25°	11074.0	11201.1	11102.3	11194.1	11194.1	11240.0	11293.0	11469.5	11240.0	11172.9
27.5°	12670.1	12797.3	12603.0	12659.5	12641.9	12754.9	12698.4	13136.3	12889.1	12779.6
30°	14591.1	14817.1	14449.9	14435.8	14418.1	14598.2	14679.4	14969.0	14718.3	14608.8
32.5°	16667.5	16904.1	16466.2	16339.1	16272.0	16381.5	16314.4	16547.5	16374.4	16204.9
35°	18864.0	19097.0	18680.3	18433.1	18164.8	17935.2	17695.1	17755.1	17592.7	17334.9
37.5°	20940.3	21367.6	20926.2	20661.4	20167.0	19718.5	19047.6	18768.6	18616.8	18380.2
40°	23055.6	23299.2	22963.7	22737.7	22201.0	21498.3	20424.8	19835.1	19630.2	19400.7
42.5°	24612.8	24845.9	24665.8	24510.4	24090.2	23274.5	21886.7	21148.7	20852.1	20594.3
45°	25848.8	26021.8	25908.8	25965.3	25785.2	24994.2	23401.6	22557.7	22250.4	21936.1
47.5°	26346.7	26530.3	26710.4	27045.9	27353.1	26770.4	25029.5	24083.2	23758.3	23436.9
50°	26290.2	26477.3	27000.0	27713.3	28666.7	28472.5	26745.7	25707.5	25407.4	25040.1
52.5°	25838.2	26050.1	26721.0	27907.5	29425.9	29747.3	28493.7	27384.9	27102.4	26664.5
55°	24651.7	24778.8	25785.2	27466.1	29606.0	30637.2	30206.3	29171.7	28889.2	28278.3
57.5°	22451.7	22635.3	24100.8	26276.1	29154.0	31241.0	31710.7	31050.3	30778.4	29899.1
60°	19580.8	19873.9	21551.2	24277.4	28002.8	31237.5	33077.3	32897.2	32671.2	31495.3
62.5°	16332.0	16671.1	18284.8	21452.4	25990.0	30351.1	33931.8	34443.9	34327.3	32967.8
65°	12543.0	12776.1	14382.8	17797.5	22857.8	28447.8	34030.7	35499.7	35520.9	34087.2
67.5°	8351.4	9022.4	10417.2	13355.2	18662.7	25336.7	33162.0	35672.7	35877.5	34472.1
70°	4075.1	4957.9	6324.5	8679.8	13355.2	20566.0	30891.4	34253.2	34708.7	33349.2
72.5°	1691.5	1977.5	2722.6	4283.4	7666.4	13877.8	26329.0	30404.1	31248.1	29549.5
75°	1140.6	1235.9	1557.3	2196.4	3492.4	6843.6	18987.6	22670.7	24030.2	22317.5
77.5°	879.3	939.3	1133.5	1536.1	2076.4	2588.4	10162.9	13662.4	14365.1	13298.7
80°	692.1	738.0	847.5	1119.4	1472.5	1384.3	3464.2	6190.3	6596.4	5533.5
82.5°	600.3	618.0	607.4	759.2	978.2	808.7	1137.1	2284.7	2521.3	1829.2
85°	434.3	483.8	505.0	469.7	519.1	409.6	466.1	808.7	889.9	794.5
87.5°	176.6	261.3	321.3	303.7	190.7	116.5	144.8	236.6	271.9	296.6
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°
7454.5	0°	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5
7458.0	2.5°	7461.5	7486.3	7503.9	7525.1	7539.2	7560.4	7602.8	7627.5	7631.0	7648.7
7514.5	5°	7528.6	7563.9	7602.8	7659.3	7722.9	7775.8	7857.0	7913.5	7934.7	7952.4
7652.2	7.5°	7673.4	7722.9	7793.5	7892.4	7984.2	8054.8	8153.7	8220.8	8287.9	8312.6
7871.2	10°	7888.8	7959.4	8061.9	8196.0	8294.9	8386.7	8489.1	8545.6	8612.7	8641.0
8132.5	12.5°	8157.2	8231.4	8365.5	8552.7	8644.5	8708.1	8743.4	8729.3	8743.4	8768.1
8446.8	15°	8464.4	8545.6	8697.5	8898.8	8962.3	8905.8	8828.1	8757.5	8746.9	8754.0
8828.1	17.5°	8828.1	8888.2	9064.7	9234.2	9188.3	8955.3	8785.8	8672.8	8616.3	8598.6
9315.4	20°	9336.6	9336.6	9481.4	9587.4	9280.1	8884.6	8619.8	8436.2	8319.6	8270.2
9979.3	22.5°	9954.6	9898.1	9989.9	9915.8	9262.5	8686.9	8319.6	8001.8	7825.3	7754.6
10908.0	25°	10738.5	10671.4	10646.7	10187.7	9135.4	8372.6	7775.8	7390.9	7235.5	7196.7
12246.4	27.5°	11921.5	11752.0	11430.7	10336.0	8902.3	7878.2	7140.2	6783.5	6695.3	6698.8
13966.1	30°	13496.5	13157.5	12370.0	10360.7	8520.9	7179.0	6490.4	6236.2	6193.8	6211.5
15410.4	32.5°	14954.9	14633.5	13330.5	10247.7	7934.7	6494.0	5907.8	5738.3	5674.7	5695.9
16512.1	35°	16099.0	16010.7	14220.4	10088.8	7214.4	5851.3	5385.2	5240.4	5116.8	5088.5
17550.3	37.5°	17179.6	17144.2	14887.8	9866.3	6501.0	5395.8	4964.9	4774.3	4594.2	4495.3
18698.0	40°	18366.1	18330.7	15325.6	9523.8	5868.9	5000.3	4587.1	4336.4	4113.9	3933.8
19997.5	42.5°	19700.9	19492.5	15534.0	9032.9	5332.2	4664.8	4279.9	3940.9	3647.8	3481.8
21466.5	45°	21159.3	20689.6	15530.5	8407.9	4880.2	4357.6	3951.5	3471.2	3199.3	3043.9
22974.3	47.5°	22706.0	21833.7	15339.8	7715.8	4442.3	4018.6	3443.0	3075.7	2895.6	2800.3
24612.8	50°	24302.1	22903.7	15014.9	6921.3	3993.8	3633.7	3125.2	2874.4	2736.7	2648.4
26237.2	52.5°	25802.9	23874.8	14622.9	6020.8	3538.3	3259.3	2983.9	2789.7	2644.9	2546.0
27812.2	55°	27197.7	24711.7	14068.5	5099.1	3167.5	3008.6	2916.8	2754.4	2588.4	2471.9
29411.8	57.5°	28437.2	25255.5	13111.5	4234.0	2902.7	2835.6	2846.2	2694.3	2503.7	2404.8
30986.8	60°	29468.3	25654.6	11695.5	3432.4	2687.3	2666.1	2736.7	2581.3	2358.9	2245.9
32318.0	62.5°	30086.3	25647.5	9958.1	2810.9	2503.7	2510.7	2591.9	2440.1	2214.1	2108.2
33013.7	65°	30033.3	25018.9	8051.3	2404.8	2327.1	2334.2	2440.1	2284.7	2094.0	2030.5
32664.1	67.5°	28970.4	23486.4	6176.2	2139.9	2132.9	2164.7	2288.3	2178.8	2019.9	2012.8
30580.7	70°	26092.4	20304.7	4449.4	1928.1	1931.6	1977.5	2139.9	2111.7	1981.0	1995.2
25711.1	72.5°	20922.7	15481.0	2987.4	1705.6	1709.1	1783.3	1998.7	2058.7	1942.2	2129.3
18242.5	75°	13934.3	9654.4	1921.0	1469.0	1472.5	1567.9	1875.1	1956.3	1836.3	2122.3
9492.0	77.5°	6695.3	4339.9	1391.3	1235.9	1235.9	1324.2	1620.8	1751.5	1564.3	1649.1
3051.0	80°	2313.0	1631.4	1094.7	995.8	974.6	1034.7	1366.6	1518.4	1348.9	1243.0
995.8	82.5°	911.1	847.5	879.3	773.3	702.7	741.6	1062.9	1253.6	992.3	896.9
561.5	85°	522.6	550.9	621.5	512.0	406.1	455.5	780.4	900.5	748.6	660.3
183.6	87.5°	141.3	194.2	286.0	264.8	183.6	194.2	370.8	497.9	430.8	331.9
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°  
7454.5  
7645.2  
7948.9  
8316.1  
8655.1  
8775.2  
8778.7  
8623.3  
8259.6  
7744.0  
7203.8  
6709.4  
6271.5  
5724.2  
5109.7  
4498.8  
3951.5  
3492.4  
3036.9  
2779.1  
2616.7  
2503.7  
2426.0  
2341.2  
2196.4  
2076.4  
2026.9  
2023.4  
1991.6  
2157.6  
2139.9  
1511.4  
1165.3  
893.4  
674.5  
342.5  
0.0

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