

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: P957411

Luminaire Tested: **GALN-SB9D-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83608 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

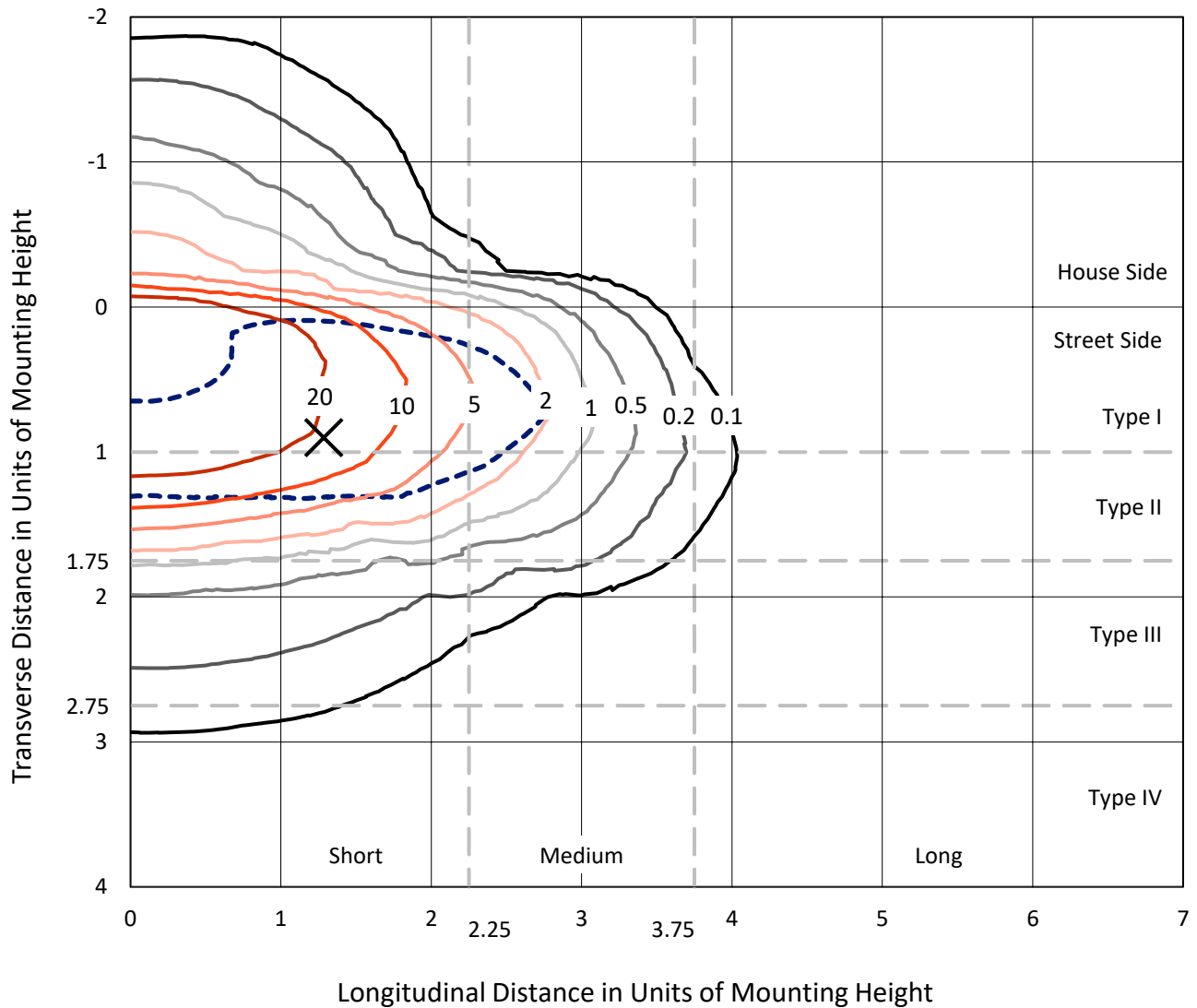
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

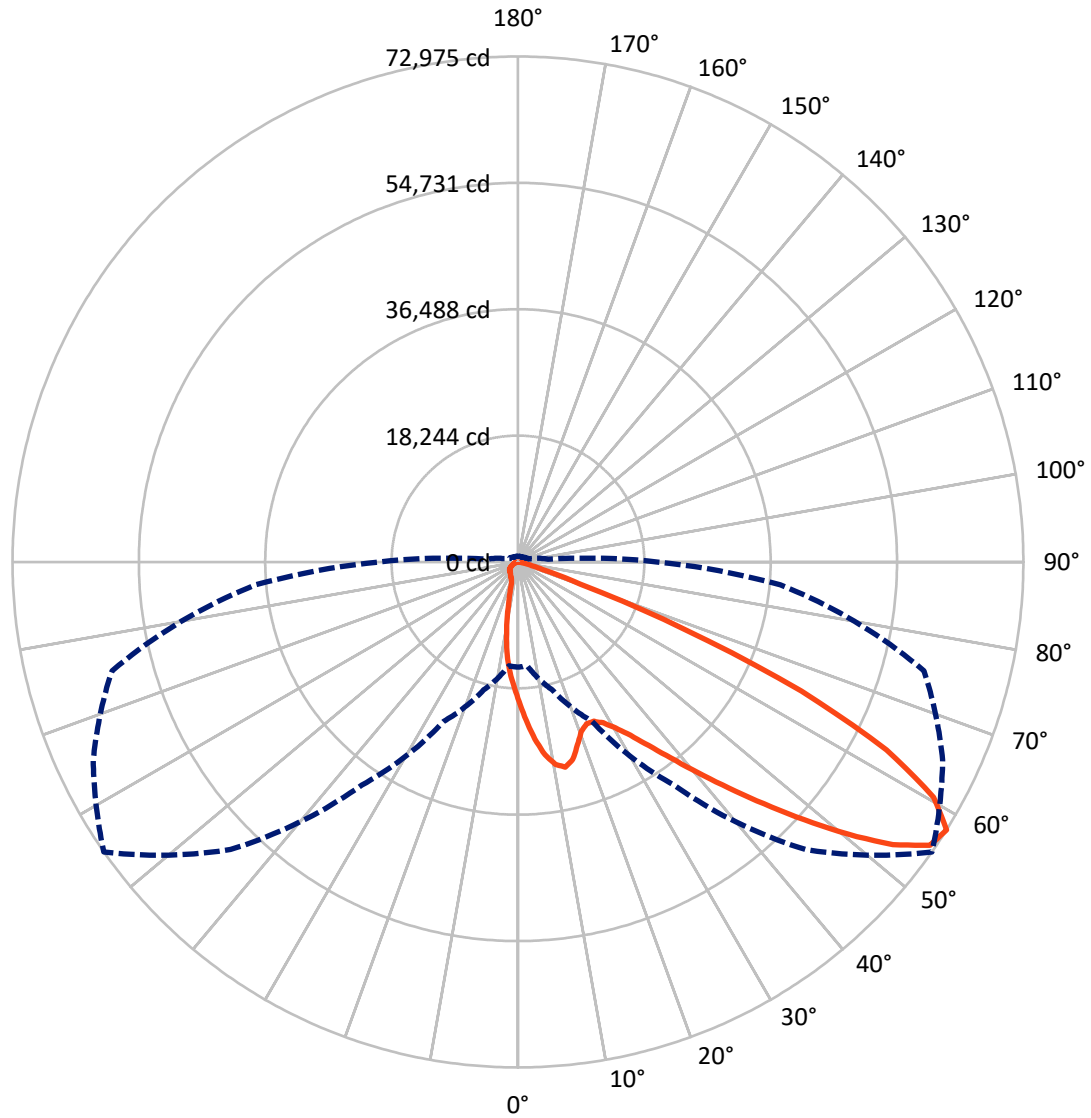
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 46.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6529.5	0.0	6529.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	77078.6	0.0	77078.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	83608.0	0.0	83608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1874.6	2.2
10°-20°	4528.1	5.4
20°-30°	7244.9	8.7
30°-40°	12262.5	14.7
40°-50°	20132.4	24.1
50°-60°	22127.0	26.5
60°-70°	12692.0	15.2
70°-80°	2593.4	3.1
80°-90°	153.0	0.2
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°	83608.0	100.0
0°-180°	83608.0	100.0

Coefficient of Utilization



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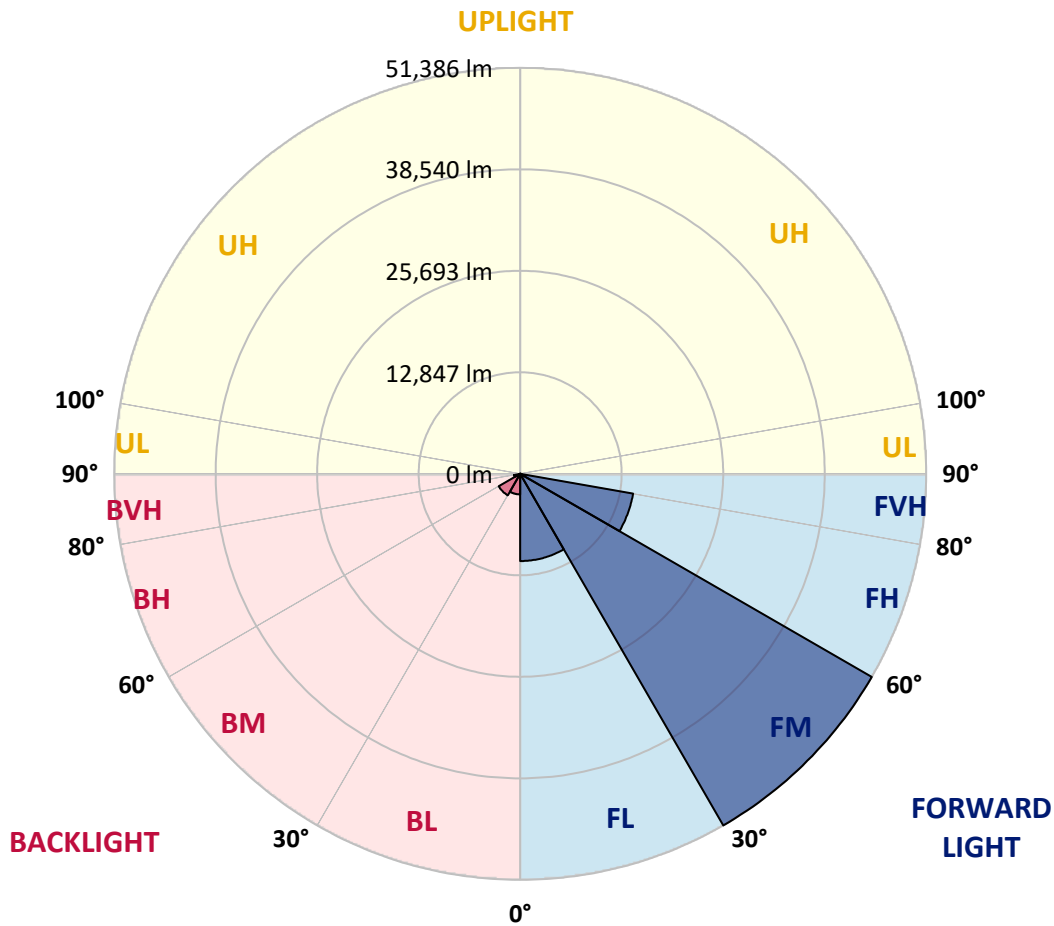
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11041.0	13.2			
FM (30°-60°)	51386.1	61.5			
FH (60°-80°)	14508.9	17.4			G5
FVH (80°-90°)	142.7	0.2			G2/225
BL (0°-30°)	2606.7	3.1	B4/5000		
BM (30°-60°)	3135.9	3.8	B3/5000		
BH (60°-80°)	776.5	0.9	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5
2.5°	24998.7	24684.3	24637.9	24576.0	23978.0	23529.4	22879.9	22168.4	21369.3	20554.7
5°	28880.8	28633.3	28586.9	28298.2	27617.7	26854.7	25699.9	24240.9	22751.0	20998.1
7.5°	29633.5	29587.1	29798.5	29788.1	29695.3	29092.2	28117.8	26380.4	24142.9	21544.6
10°	26277.3	26395.9	27024.8	27576.5	29066.4	29932.5	29721.1	28287.9	25576.1	22168.4
12.5°	23220.1	23080.9	23529.4	24153.2	25885.5	28463.2	30386.2	29880.9	27215.6	22874.7
15°	21302.3	21245.6	21498.2	21786.9	23106.7	25705.0	29612.9	31175.0	28793.1	23709.9
17.5°	20688.8	20642.4	20719.7	20791.9	21647.7	23658.3	27772.4	31968.9	30303.7	24663.6
20°	21188.9	21127.0	21116.7	21060.0	21415.7	22787.1	26107.2	32025.6	31659.6	25529.7
22.5°	22647.9	22575.7	22323.1	22096.2	22127.2	22905.6	25364.8	31458.5	32680.3	26339.2
25°	25292.6	25174.0	24648.2	23885.2	23400.6	23730.5	25478.2	30711.0	33654.7	26973.3
27.5°	28602.4	28447.7	27772.4	26638.2	25529.7	25127.6	26297.9	30195.4	34464.1	27457.9
30°	31845.2	31644.1	30979.1	30097.5	28478.7	27210.4	27777.5	30422.3	35428.2	27963.1
32.5°	35345.7	35155.0	34273.4	33180.4	31840.0	30133.6	29803.6	31530.7	36608.8	28669.4
35°	39774.2	39475.2	38222.4	36732.5	35309.6	33582.5	32546.3	33443.4	38181.2	29746.9
37.5°	44816.3	44414.1	43063.4	41006.4	39150.4	37217.1	35887.0	36072.6	40485.7	31190.4
40°	49569.6	49203.5	47955.9	46017.5	43687.2	41341.5	39923.7	39511.3	43666.6	32948.4
42.5°	52420.5	52090.6	51564.7	50745.0	48780.8	46388.7	44599.7	43707.8	47430.1	35051.9
45°	52580.4	52291.6	52997.9	53951.7	53565.0	51972.0	49791.3	48157.0	51209.0	37026.4
47.5°	50023.3	49827.3	51972.0	55302.4	56962.5	57632.7	55622.1	52234.9	54328.0	38444.1
50°	43053.1	42980.9	47394.0	53508.3	58256.5	62592.2	61772.5	56029.3	56746.0	39176.2
52.5°	37330.6	37067.6	39640.2	47765.2	56374.8	65200.9	67783.8	59751.6	58436.9	39315.4
55°	28313.7	28081.7	31309.0	38155.4	50306.8	64272.9	72181.3	63592.4	59648.5	38959.7
57.5°	15187.9	15043.6	19121.5	25395.7	39325.7	58705.0	72975.3	67654.9	60669.2	38016.2
60°	5913.3	5887.5	7413.5	12321.5	23900.6	47760.0	68969.5	70093.4	61308.5	36856.3
62.5°	3577.9	3655.2	3902.7	5531.8	10558.3	29669.6	59736.1	67319.8	61736.4	35794.2
65°	2959.2	2964.4	2995.3	3799.6	5057.5	12414.3	44970.9	58194.6	60679.6	33902.2
67.5°	2536.5	2582.9	2701.5	3015.9	3567.6	5444.1	25890.6	45079.2	54250.7	29499.4
70°	2000.3	2062.2	2211.7	2479.8	2753.0	3407.7	9568.5	29994.4	41444.6	22235.4
72.5°	1685.8	1680.7	1758.0	2015.8	2185.9	2397.3	3681.0	16806.7	24086.2	10615.1
75°	1304.3	1355.9	1453.8	1685.8	1788.9	1737.4	1995.2	6140.1	8630.2	3217.0
77.5°	1020.8	1062.0	1149.7	1376.5	1479.6	1232.2	1149.7	2196.2	2773.6	1154.8
80°	458.8	494.9	783.6	1015.6	1206.4	850.6	623.8	1123.9	1232.2	525.9
82.5°	82.5	139.2	458.8	536.2	618.7	551.6	324.8	582.6	603.2	211.4
85°	5.2	10.3	159.8	195.9	247.5	180.4	98.0	232.0	201.1	72.2
87.5°	0.0	0.0	0.0	5.2	5.2	25.8	30.9	41.2	30.9	25.8
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
20147.5	0°	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5	20147.5
20193.9	2.5°	19822.7	19090.6	18379.2	17796.6	17456.3	16878.9	16497.4	16435.5	16275.7	16414.9
20245.4	5°	19441.2	18131.7	16806.7	15621.0	14646.6	13388.7	12450.4	12053.4	11708.0	11826.6
20379.5	7.5°	19260.7	17193.4	15131.2	13105.1	11022.3	9011.7	7516.6	6892.8	6418.5	6485.5
20529.0	10°	19018.4	16219.0	12986.6	9893.3	7104.2	5119.4	4088.3	3706.8	3495.4	3500.5
20750.7	12.5°	18832.8	15053.9	10496.5	6707.2	4325.4	3268.6	2948.9	2856.1	2794.2	2799.4
21085.8	15°	18740.0	13682.5	8037.3	4469.8	3093.3	2768.5	2691.1	2649.9	2608.7	2603.5
21456.9	17.5°	18585.4	12156.5	5882.4	3263.4	2706.6	2593.2	2526.2	2479.8	2428.2	2417.9
21776.6	20°	18353.4	10424.3	4299.6	2758.2	2536.5	2448.8	2356.0	2294.2	2232.3	2222.0
21977.6	22.5°	17925.5	8594.1	3304.6	2551.9	2412.7	2314.8	2201.4	2129.2	2067.3	2057.0
21879.7	25°	17131.5	6877.4	2783.9	2423.1	2304.5	2185.9	2062.2	1964.2	1907.5	1897.2
21668.3	27.5°	16126.2	5402.9	2526.2	2304.5	2165.3	2057.0	1917.8	1825.0	1773.5	1763.2
21389.9	30°	14940.5	4160.4	2376.7	2170.4	2000.3	1907.5	1783.8	1706.5	1675.5	1675.5
21194.0	32.5°	13661.9	3325.3	2314.8	2036.4	1856.0	1752.9	1654.9	1624.0	1613.7	1608.5
21302.3	35°	12460.7	2887.0	2283.9	1928.1	1727.1	1629.1	1587.9	1593.0	1613.7	1613.7
21637.4	37.5°	11393.5	2747.9	2268.4	1850.8	1613.7	1526.0	1551.8	1598.2	1577.6	1577.6
22225.1	40°	10429.5	2763.3	2258.1	1794.1	1520.9	1469.3	1520.9	1484.8	1433.2	1428.1
22941.7	42.5°	9692.2	2892.2	2237.5	1747.7	1464.1	1428.1	1407.4	1350.7	1345.6	1355.9
23684.1	45°	9156.1	3005.6	2232.3	1727.1	1402.3	1335.3	1309.5	1252.8	1355.9	1381.7
23988.3	47.5°	8521.9	3005.6	2232.3	1654.9	1299.2	1273.4	1232.2	1170.3	1273.4	1299.2
23699.6	50°	7702.2	2814.9	2144.7	1572.4	1216.7	1201.2	1129.0	1051.7	1031.1	1046.6
23024.2	52.5°	6666.0	2469.5	1923.0	1459.0	1134.2	1103.3	1015.6	958.9	943.4	943.4
21812.7	55°	5485.4	2067.3	1624.0	1294.0	1046.6	989.8	928.0	902.2	886.7	876.4
20116.5	57.5°	4459.5	1696.1	1304.3	1149.7	964.1	891.9	871.3	840.3	814.6	799.1
18698.8	60°	3660.4	1335.3	1077.5	1020.8	881.6	814.6	809.4	768.2	701.1	690.8
17528.5	62.5°	2825.2	979.5	907.4	886.7	799.1	742.4	732.1	649.6	546.5	525.9
15868.5	65°	1995.2	763.0	732.1	778.5	711.5	659.9	634.1	510.4	402.1	386.7
13280.4	67.5°	1402.3	639.3	577.4	680.5	618.7	551.6	536.2	433.1	335.1	324.8
10042.8	70°	1000.2	520.7	474.3	582.6	494.9	484.6	453.7	360.9	273.2	262.9
4969.8	72.5°	706.3	397.0	366.0	505.2	340.3	417.6	371.2	278.4	206.2	195.9
1691.0	75°	520.7	283.5	257.8	293.9	247.5	314.5	262.9	185.6	128.9	123.7
763.0	77.5°	381.5	180.4	154.7	144.4	144.4	195.9	144.4	77.3	56.7	51.6
386.7	80°	268.1	82.5	72.2	61.9	56.7	46.4	20.6	10.3	5.2	5.2
134.0	82.5°	159.8	36.1	36.1	25.8	15.5	0.0	0.0	0.0	0.0	0.0
51.6	85°	36.1	15.5	15.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
20.6	87.5°	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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