

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: P947406

Luminaire Tested: **GALN-SB2D-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20728 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

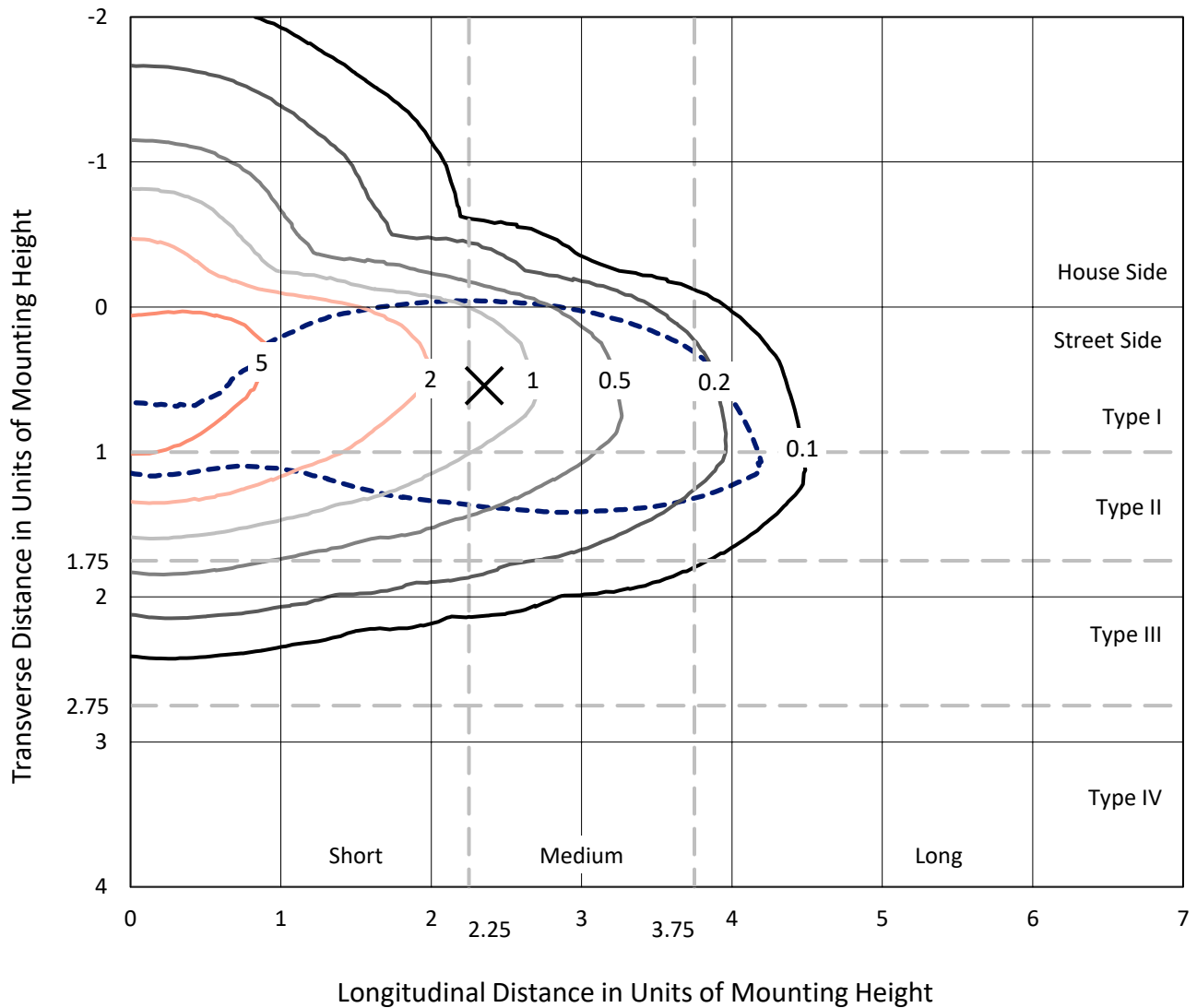
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

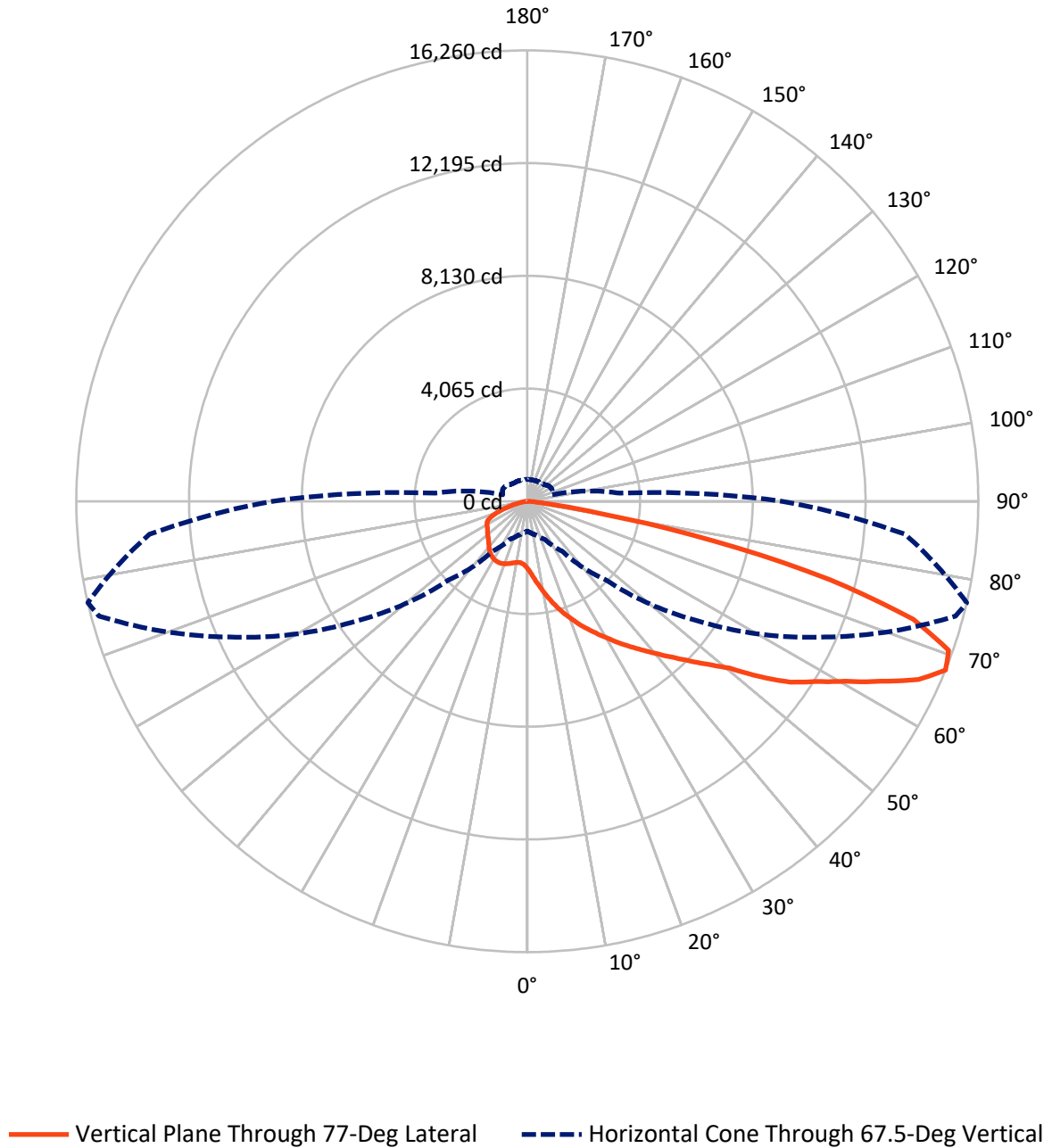
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3920.9	0.0	3920.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16807.1	0.0	16807.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	20728.0	0.0	20728.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	1.3
10°-20°	936.5	4.5
20°-30°	1768.2	8.5
30°-40°	2848.6	13.7
40°-50°	3896.4	18.8
50°-60°	4395.2	21.2
60°-70°	4102.3	19.8
70°-80°	2248.8	10.8
80°-90°	271.2	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°	20728.0	100.0
0°-180°	20728.0	100.0



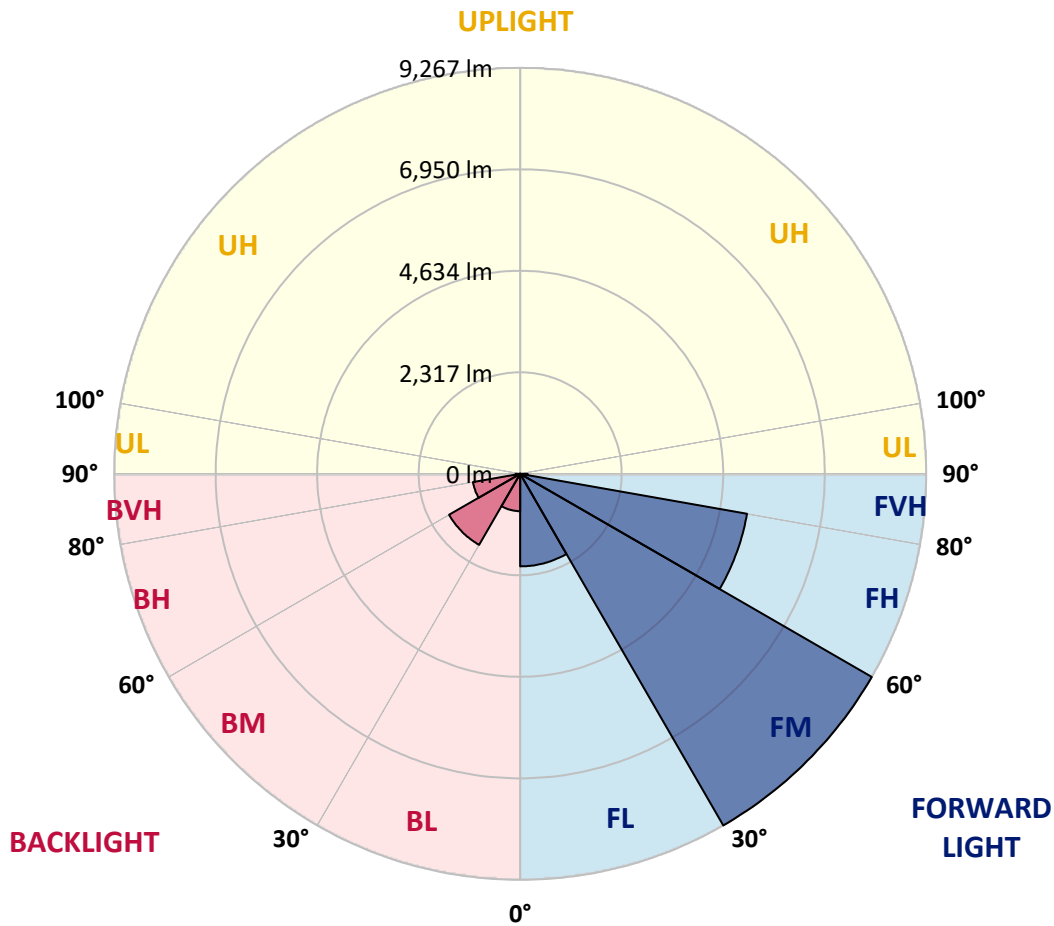
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.0	10.2			
FM (30°-60°)	9267.3	44.7			
FH (60°-80°)	5257.2	25.4			G3/7500
FVH (80°-90°)	169.6	0.8			G2/225
BL (0°-30°)	852.5	4.1	B2/1000		
BM (30°-60°)	1872.9	9.0	B2/2500		
BH (60°-80°)	1093.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	101.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0
2.5°	3045.1	3066.5	3039.8	3039.8	2949.9	2902.8	2812.9	2744.5	2621.4	2600.0
5°	3599.4	3626.1	3588.7	3572.6	3466.7	3369.3	3218.5	3069.7	2850.4	2827.9
7.5°	4028.4	4062.7	4029.5	4012.4	3918.2	3809.1	3632.5	3425.0	3115.7	3071.9
10°	4378.3	4383.7	4373.0	4379.4	4305.6	4215.7	4034.9	3793.0	3406.8	3346.9
12.5°	4576.3	4600.9	4622.3	4660.8	4647.9	4592.3	4429.7	4140.8	3714.9	3637.9
15°	4669.3	4712.1	4760.3	4849.1	4920.8	4934.7	4810.6	4514.2	4028.4	3935.3
17.5°	4702.5	4743.2	4819.1	4947.5	5101.6	5205.4	5149.8	4876.9	4338.7	4231.7
20°	4870.5	4882.3	4928.3	5050.3	5217.2	5389.4	5431.2	5225.7	4645.8	4524.9
22.5°	5230.0	5206.5	5219.3	5274.9	5394.8	5561.7	5656.9	5533.9	4961.4	4822.3
25°	5823.8	5755.4	5686.9	5622.7	5683.7	5777.8	5885.9	5842.0	5292.1	5115.5
27.5°	6573.9	6490.4	6339.6	6128.8	6055.0	6088.1	6136.3	6127.7	5598.1	5419.4
30°	7312.2	7214.8	7035.0	6730.1	6535.4	6447.6	6411.3	6386.6	5930.8	5740.4
32.5°	7901.7	7824.7	7648.1	7306.8	7024.3	6874.5	6753.6	6665.9	6278.6	6088.1
35°	8417.4	8345.8	8143.5	7771.2	7464.1	7304.7	7146.3	6959.1	6640.2	6447.6
37.5°	8888.2	8816.5	8539.4	8152.1	7842.9	7732.7	7591.4	7273.6	7002.9	6821.0
40°	9185.7	9169.6	8910.7	8472.0	8151.0	8096.5	8049.4	7638.5	7405.3	7236.2
42.5°	9261.6	9297.0	9091.5	8730.9	8424.9	8381.1	8491.3	8051.5	7856.8	7695.2
45°	9078.7	9180.3	9045.5	8800.5	8619.7	8596.1	8882.9	8503.0	8356.5	8208.8
47.5°	8615.4	8787.7	8732.0	8697.8	8672.1	8773.7	9227.4	8982.4	8922.5	8794.1
50°	7680.2	8006.6	8103.9	8320.1	8568.3	8911.8	9540.9	9505.6	9583.7	9454.2
52.5°	6063.5	6512.9	7077.8	7619.2	8249.5	8865.8	9885.4	10256.7	10586.3	10515.7
55°	5005.3	5207.5	5641.9	6634.9	7631.0	8672.1	10040.6	10863.4	11581.3	11518.2
57.5°	4192.1	4373.0	4640.5	5469.7	6695.9	8232.3	10136.9	11233.6	12262.9	12256.5
60°	3320.1	3511.6	3785.5	4373.0	5603.4	7472.7	10115.5	11655.2	13132.8	13186.3
62.5°	2335.7	2546.5	2850.4	3398.2	4487.4	6488.3	9678.9	11960.1	14156.8	14302.3
65°	1535.4	1674.5	1903.5	2376.4	3343.7	5222.5	8845.4	11999.7	15252.4	15498.5
67.5°	1076.4	1129.9	1264.7	1521.5	2204.1	4004.9	7517.6	11589.9	15983.2	16260.3
70°	839.9	866.7	935.2	1037.9	1384.5	2693.1	5760.7	10524.2	15827.0	16115.9
72.5°	725.4	751.1	776.8	789.6	928.7	1662.7	3902.2	8799.4	14355.8	14551.6
75°	658.0	664.5	685.8	681.6	708.3	1078.5	2252.3	6411.3	11326.7	11259.3
77.5°	553.2	561.7	597.0	591.7	629.1	737.2	1169.5	4137.6	7343.2	6885.2
80°	468.6	472.9	511.4	505.0	546.8	533.9	597.0	2108.9	3114.7	2638.5
82.5°	162.6	201.2	390.5	402.3	417.3	323.1	344.5	860.3	951.2	728.6
85°	79.2	84.5	199.0	282.5	281.4	162.6	168.0	307.1	299.6	235.4
87.5°	12.8	16.0	23.5	110.2	87.7	42.8	57.8	59.9	62.1	53.5
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°
2432.0	0°	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0	2432.0
2518.7	2.5°	2458.8	2405.3	2292.9	2189.2	2107.8	2029.7	1985.9	1948.4	1927.0	1922.7
2636.4	5°	2525.1	2414.9	2210.6	2038.3	1925.9	1842.5	1798.6	1770.8	1756.9	1748.3
2794.8	7.5°	2620.4	2458.8	2167.8	1972.0	1854.3	1794.3	1771.9	1767.6	1766.5	1767.6
2986.3	10°	2752.0	2530.5	2163.5	1955.9	1857.5	1824.3	1823.2	1824.3	1828.6	1829.6
3194.9	12.5°	2894.3	2604.3	2180.6	1969.8	1898.1	1879.9	1876.7	1875.7	1878.9	1881.0
3405.7	15°	3049.4	2701.7	2209.5	1999.8	1943.1	1923.8	1920.6	1914.2	1913.1	1912.0
3627.2	17.5°	3208.8	2798.0	2241.6	2031.9	1972.0	1945.2	1933.4	1918.5	1906.7	1903.5
3856.2	20°	3370.4	2893.2	2264.1	2047.9	1974.1	1936.6	1913.1	1887.4	1867.1	1855.3
4087.3	22.5°	3542.7	2992.7	2278.0	2043.6	1954.8	1903.5	1860.7	1830.7	1799.7	1779.4
4320.5	25°	3710.7	3079.4	2276.9	2021.2	1917.4	1852.1	1797.5	1759.0	1716.2	1694.8
4561.3	27.5°	3872.2	3157.5	2250.1	1981.6	1863.9	1791.1	1725.9	1679.9	1638.1	1617.8
4804.2	30°	4039.1	3222.7	2208.4	1923.8	1800.8	1720.5	1648.8	1609.2	1571.8	1552.5
5061.0	32.5°	4205.0	3282.7	2149.6	1852.1	1728.0	1651.0	1580.3	1544.0	1521.5	1521.5
5337.0	35°	4380.5	3324.4	2071.5	1768.7	1651.0	1577.1	1521.5	1500.1	1498.0	1485.1
5629.1	37.5°	4565.6	3351.1	1976.2	1683.1	1575.0	1505.4	1488.3	1462.6	1441.2	1413.4
5950.1	40°	4760.3	3377.9	1861.7	1594.3	1494.7	1456.2	1448.7	1414.5	1353.5	1285.0
6313.9	42.5°	4996.8	3396.1	1743.0	1505.4	1410.2	1397.4	1408.1	1349.2	1251.9	1200.5
6752.6	45°	5270.7	3426.0	1633.8	1417.7	1323.6	1323.6	1368.5	1291.5	1211.2	1179.1
7253.3	47.5°	5625.9	3495.6	1532.2	1321.4	1243.3	1264.7	1280.8	1221.9	1177.0	1137.4
7863.2	50°	6139.5	3662.5	1427.3	1224.0	1182.3	1225.1	1202.6	1168.4	1116.0	1083.9
8832.6	52.5°	6777.2	3760.9	1334.3	1136.3	1129.9	1172.7	1140.6	1108.5	1068.9	1026.1
9567.7	55°	7211.6	3779.1	1256.1	1072.1	1094.6	1090.3	1078.5	1049.6	1028.2	971.5
10293.1	57.5°	7697.4	3815.5	1191.9	1033.6	1072.1	1025.0	1020.7	996.1	968.3	929.8
11178.0	60°	8278.3	3872.2	1136.3	1018.6	1052.8	982.2	960.8	951.2	923.4	904.1
12242.6	62.5°	8911.8	3923.6	1079.6	1020.7	1030.4	940.5	908.4	905.2	888.1	881.7
13241.9	65°	9344.0	3783.4	1009.0	1018.6	995.1	897.7	857.0	856.0	842.1	839.9
13675.3	67.5°	9193.2	3339.4	913.8	988.7	958.7	854.9	810.0	805.7	787.5	788.6
13222.7	70°	8437.8	2706.0	782.1	914.8	913.8	816.4	760.7	746.8	722.2	726.5
11496.8	72.5°	7021.1	2005.1	605.6	791.8	842.1	781.1	704.0	681.6	650.5	654.8
8487.0	75°	5070.6	1363.1	440.8	602.4	732.9	739.3	648.4	609.9	572.4	578.9
4723.9	77.5°	2594.7	772.5	324.2	415.1	575.6	671.9	598.1	546.8	538.2	598.1
1362.1	80°	846.3	387.3	224.7	291.0	377.7	550.0	524.3	465.4	463.3	477.2
285.7	82.5°	252.5	163.7	144.4	191.5	208.6	421.6	452.6	352.0	302.8	318.9
95.2	85°	86.7	79.2	82.4	95.2	99.5	247.2	316.7	233.3	220.4	242.9
21.4	87.5°	20.3	27.8	23.5	21.4	21.4	59.9	123.0	97.4	134.8	89.9
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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<u>180°</u>
2432.0
1922.7
1747.3
1770.8
1830.7
1882.1
1911.0
1906.7
1859.6
1780.4
1694.8
1616.7
1551.5
1522.6
1481.9
1409.1
1275.4
1201.6
1184.5
1136.3
1080.7
1017.5
972.6
917.0
909.5
881.7
838.9
788.6
730.8
653.8
581.0
589.6
409.8
329.6
239.7
86.7
0.0

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