

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: P949695

Luminaire Tested: **GALN-SB4B-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949695
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-SB4B-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21987 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

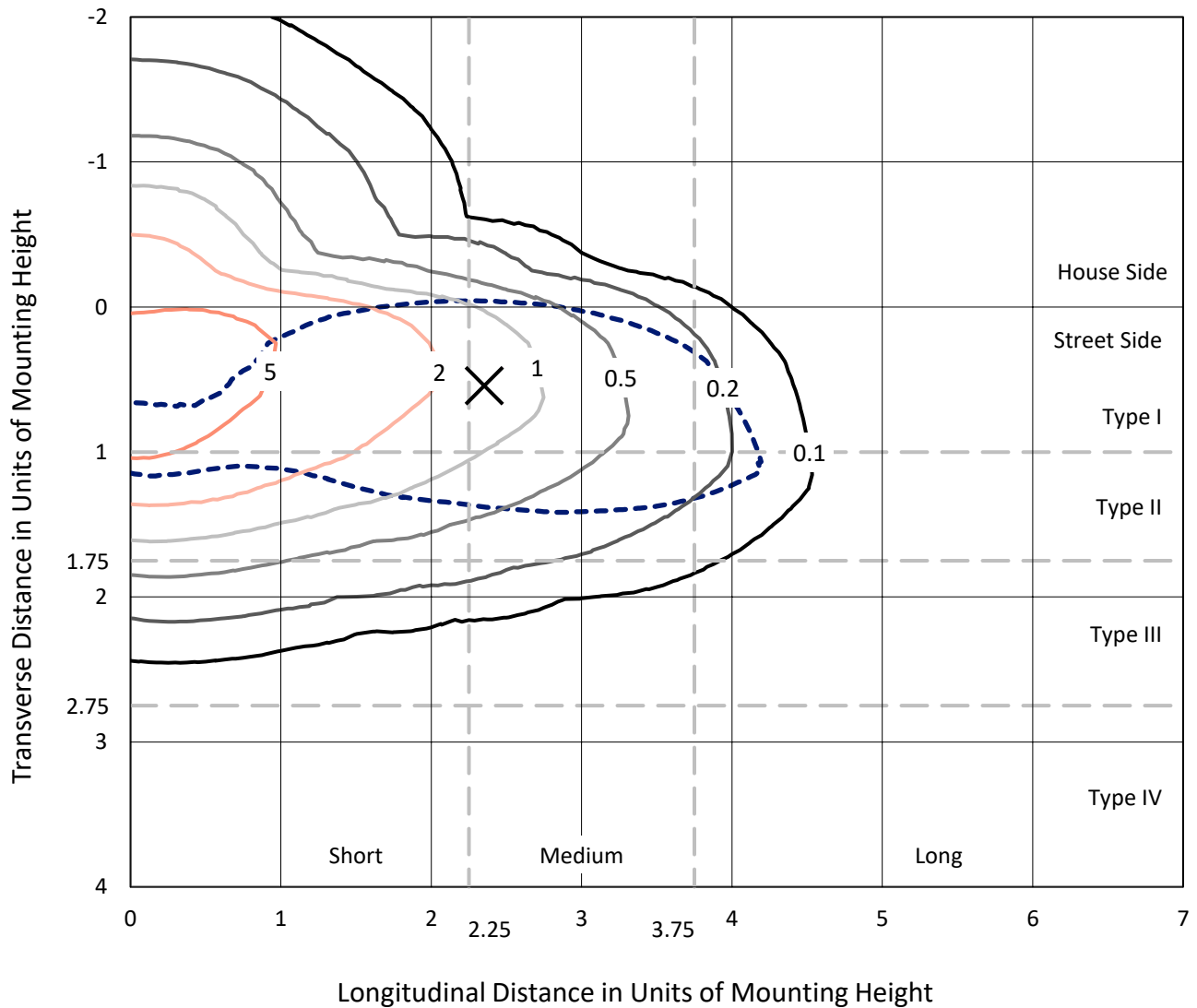
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

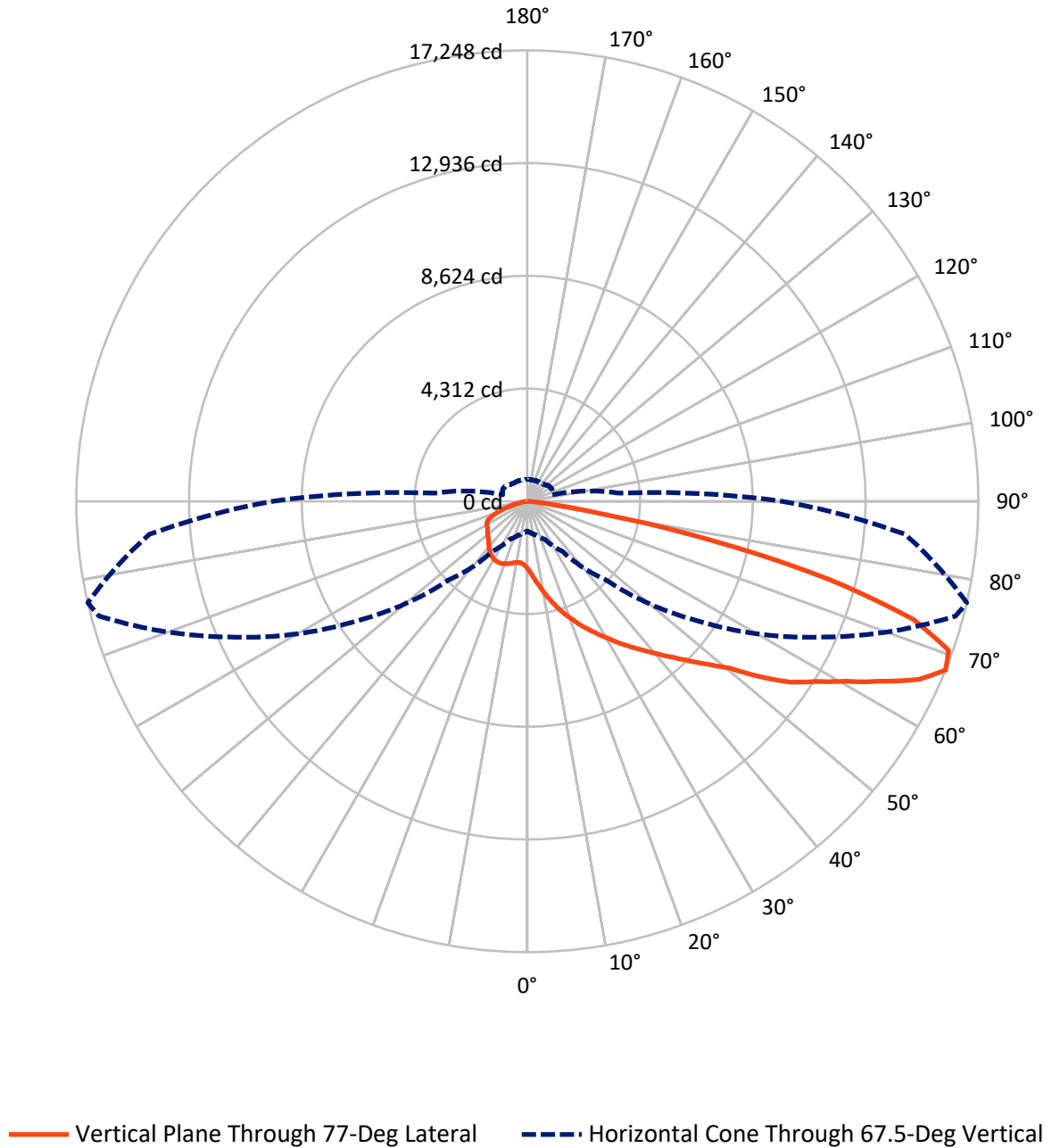
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	4159.1	0.0	4159.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17827.9	0.0	17827.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	21987.0	0.0	21987.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.3
10°-20°	993.4	4.5
20°-30°	1875.6	8.5
30°-40°	3021.6	13.7
40°-50°	4133.1	18.8
50°-60°	4662.1	21.2
60°-70°	4351.5	19.8
70°-80°	2385.4	10.8
80°-90°	287.7	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°	21987.0	100.0
0°-180°	21987.0	100.0



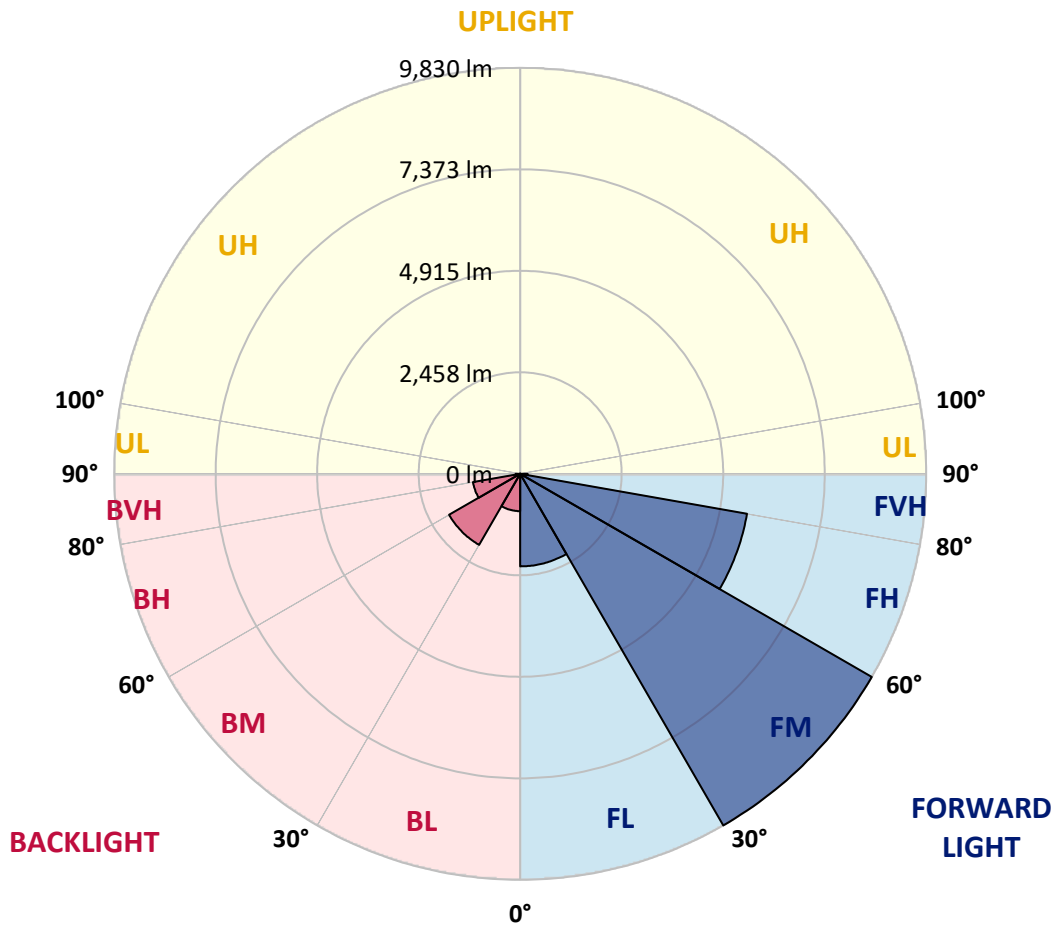
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2241.3	10.2			
FM (30°-60°)	9830.1	44.7			
FH (60°-80°)	5576.6	25.4			G3/7500
FVH (80°-90°)	179.9	0.8			G2/225
BL (0°-30°)	904.3	4.1	B2/1000		
BM (30°-60°)	1986.7	9.0	B2/2500		
BH (60°-80°)	1160.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	107.8	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°	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8
2.5°	3230.1	3252.8	3224.4	3224.4	3129.1	3079.1	2983.8	2911.2	2780.6	2757.9
5°	3818.0	3846.4	3806.6	3789.6	3677.3	3574.0	3414.0	3256.2	3023.5	2999.7
7.5°	4273.1	4309.4	4274.2	4256.1	4156.2	4040.4	3853.2	3633.0	3305.0	3258.5
10°	4644.2	4649.9	4638.6	4645.4	4567.1	4471.7	4279.9	4023.4	3613.7	3550.1
12.5°	4854.2	4880.3	4903.0	4943.9	4930.3	4871.2	4698.7	4392.3	3940.6	3858.9
15°	4953.0	4998.4	5049.4	5143.6	5219.7	5234.4	5102.8	4788.4	4273.1	4174.4
17.5°	4988.1	5031.3	5111.8	5248.0	5411.5	5521.6	5462.5	5173.1	4602.3	4488.8
20°	5166.3	5178.8	5227.6	5357.0	5534.1	5716.8	5761.0	5543.1	4928.0	4799.7
22.5°	5547.7	5522.7	5536.3	5595.3	5722.5	5899.5	6000.5	5870.0	5262.8	5115.3
25°	6177.6	6104.9	6032.3	5964.2	6028.9	6128.8	6243.4	6196.9	5613.5	5426.2
27.5°	6973.2	6884.7	6724.6	6501.0	6422.7	6457.9	6509.0	6499.9	5938.1	5748.6
30°	7756.3	7653.0	7462.3	7138.9	6932.3	6839.3	6800.7	6774.6	6291.1	6089.0
32.5°	8381.7	8299.9	8112.7	7750.6	7451.0	7292.1	7163.9	7070.8	6659.9	6457.9
35°	8928.7	8852.7	8638.2	8243.2	7917.5	7748.4	7580.4	7381.8	7043.5	6839.3
37.5°	9428.1	9352.0	9058.1	8647.2	8319.2	8202.3	8052.5	7715.4	7428.3	7235.4
40°	9743.6	9726.6	9451.9	8986.6	8646.1	8588.2	8538.3	8102.5	7855.0	7675.7
42.5°	9824.2	9861.6	9643.7	9261.3	8936.7	8890.1	9007.0	8540.6	8334.0	8162.6
45°	9630.1	9737.9	9594.9	9335.0	9143.2	9118.2	9422.4	9019.5	8864.0	8707.4
47.5°	9138.7	9321.4	9262.4	9226.1	9198.8	9306.7	9787.9	9528.0	9464.4	9328.2
50°	8146.7	8492.9	8596.2	8825.4	9088.7	9453.1	10120.4	10083.0	10165.8	10028.5
52.5°	6431.8	6908.5	7507.7	8082.0	8750.5	9404.3	10485.9	10879.7	11229.3	11154.4
55°	5309.3	5523.8	5984.6	7037.9	8094.5	9198.8	10650.4	11523.2	12284.8	12217.8
57.5°	4446.8	4638.6	4922.3	5801.9	7102.6	8732.4	10752.6	11915.9	13007.7	13000.9
60°	3521.8	3724.9	4015.5	4638.6	5943.8	7926.5	10729.9	12363.1	13930.5	13987.2
62.5°	2477.6	2701.2	3023.5	3604.6	4760.0	6882.4	10266.8	12686.6	15016.6	15171.0
65°	1628.7	1776.2	2019.1	2520.7	3546.7	5539.7	9382.7	12728.5	16178.8	16439.9
67.5°	1141.8	1198.5	1341.5	1613.9	2338.0	4248.1	7974.2	12293.9	16954.0	17247.9
70°	890.9	919.3	992.0	1100.9	1468.6	2856.7	6110.6	11163.4	16788.3	17094.7
72.5°	769.5	796.7	824.0	837.6	985.1	1763.7	4139.2	9333.9	15227.7	15435.4
75°	698.0	704.8	727.5	723.0	751.3	1144.0	2389.1	6800.7	12014.7	11943.2
77.5°	586.8	595.9	633.3	627.6	667.4	782.0	1240.5	4388.9	7789.2	7303.5
80°	497.1	501.7	542.5	535.7	580.0	566.3	633.3	2237.0	3303.9	2798.8
82.5°	172.5	213.4	414.3	426.7	442.6	342.8	365.5	912.5	1009.0	772.9
85°	84.0	89.7	211.1	299.6	298.5	172.5	178.2	325.7	317.8	249.7
87.5°	13.6	17.0	25.0	116.9	93.1	45.4	61.3	63.6	65.8	56.7
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°
2579.8	0°	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8	2579.8
2671.7	2.5°	2608.1	2551.4	2432.2	2322.1	2235.9	2153.0	2106.5	2066.8	2044.1	2039.5
2796.5	5°	2678.5	2561.6	2344.8	2162.1	2042.9	1954.4	1907.9	1878.4	1863.6	1854.5
2964.5	7.5°	2779.5	2608.1	2299.4	2091.7	1966.9	1903.3	1879.5	1874.9	1873.8	1874.9
3167.7	10°	2919.1	2684.2	2294.9	2074.7	1970.3	1935.1	1934.0	1935.1	1939.6	1940.8
3389.0	12.5°	3070.1	2762.5	2313.0	2089.5	2013.4	1994.1	1990.7	1989.6	1993.0	1995.3
3612.6	15°	3234.6	2865.8	2343.7	2121.2	2061.1	2040.7	2037.2	2030.4	2029.3	2028.2
3847.5	17.5°	3403.7	2967.9	2377.7	2155.3	2091.7	2063.4	2050.9	2035.0	2022.5	2019.1
4090.4	20°	3575.1	3068.9	2401.6	2172.3	2094.0	2054.3	2029.3	2002.1	1980.5	1968.0
4335.5	22.5°	3757.8	3174.5	2416.3	2167.8	2073.6	2019.1	1973.7	1941.9	1909.0	1887.4
4583.0	25°	3936.0	3266.4	2415.2	2143.9	2033.8	1964.6	1906.7	1865.9	1820.5	1797.8
4838.3	27.5°	4107.4	3349.3	2386.8	2101.9	1977.1	1899.9	1830.7	1781.9	1737.6	1716.1
5096.0	30°	4284.5	3418.5	2342.6	2040.7	1910.1	1825.0	1749.0	1707.0	1667.3	1646.8
5368.3	32.5°	4460.4	3482.0	2280.1	1964.6	1833.0	1751.2	1676.3	1637.7	1613.9	1613.9
5661.2	35°	4646.5	3526.3	2197.3	1876.1	1751.2	1672.9	1613.9	1591.2	1588.9	1575.3
5971.0	37.5°	4842.9	3554.7	2096.3	1785.3	1670.7	1596.9	1578.7	1551.5	1528.8	1499.3
6311.5	40°	5049.4	3583.1	1974.8	1691.1	1585.5	1544.7	1536.7	1500.4	1435.7	1363.1
6697.4	42.5°	5300.3	3602.4	1848.8	1596.9	1495.9	1482.3	1493.6	1431.2	1327.9	1273.4
7162.7	45°	5590.8	3634.1	1733.1	1503.8	1403.9	1403.9	1451.6	1369.9	1284.8	1250.7
7693.9	47.5°	5967.6	3707.9	1625.3	1401.7	1318.8	1341.5	1358.5	1296.1	1248.5	1206.5
8340.8	50°	6512.4	3885.0	1514.0	1298.4	1254.1	1299.5	1275.7	1239.4	1183.8	1149.7
9369.1	52.5°	7188.8	3989.4	1415.3	1205.3	1198.5	1243.9	1209.9	1175.8	1133.8	1088.4
10148.8	55°	7649.6	4008.7	1332.4	1137.2	1161.1	1156.5	1144.0	1113.4	1090.7	1030.5
10918.3	57.5°	8164.9	4047.3	1264.3	1096.4	1137.2	1087.3	1082.7	1056.6	1027.1	986.3
11856.9	60°	8781.2	4107.4	1205.3	1080.5	1116.8	1041.9	1019.2	1009.0	979.5	959.0
12986.2	62.5°	9453.1	4161.9	1145.2	1082.7	1093.0	997.6	963.6	960.2	942.0	935.2
14046.2	65°	9911.6	4013.2	1070.3	1080.5	1055.5	952.2	909.1	908.0	893.2	890.9
14505.9	67.5°	9751.6	3542.2	969.3	1048.7	1016.9	906.8	859.2	854.6	835.3	836.5
14025.8	70°	8950.3	2870.3	829.7	970.4	969.3	866.0	807.0	792.2	766.1	770.6
12195.1	72.5°	7447.6	2126.9	642.4	839.9	893.2	828.5	746.8	723.0	690.1	694.6
9002.5	75°	5378.6	1445.9	467.6	639.0	777.4	784.3	687.8	646.9	607.2	614.0
5010.8	77.5°	2752.3	819.4	343.9	440.4	610.6	712.8	634.4	580.0	570.9	634.4
1444.8	80°	897.8	410.9	238.3	308.7	400.6	583.4	556.1	493.7	491.4	506.2
303.0	82.5°	267.8	173.6	153.2	203.2	221.3	447.2	480.1	373.4	321.2	338.2
101.0	85°	91.9	84.0	87.4	101.0	105.6	262.2	335.9	247.4	233.8	257.6
22.7	87.5°	21.6	29.5	25.0	22.7	22.7	63.6	130.5	103.3	143.0	95.3
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>
2579.8
2039.5
1853.4
1878.4
1941.9
1996.4
2027.0
2022.5
1972.6
1888.6
1797.8
1714.9
1645.7
1615.0
1571.9
1494.7
1352.9
1274.6
1256.4
1205.3
1146.3
1079.3
1031.7
972.7
964.7
935.2
889.8
836.5
775.2
693.5
616.3
625.4
434.7
349.6
254.2
91.9
0.0

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