

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: P954021

Luminaire Tested: **GALN-SB7B-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954021
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-SB7B-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24828 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

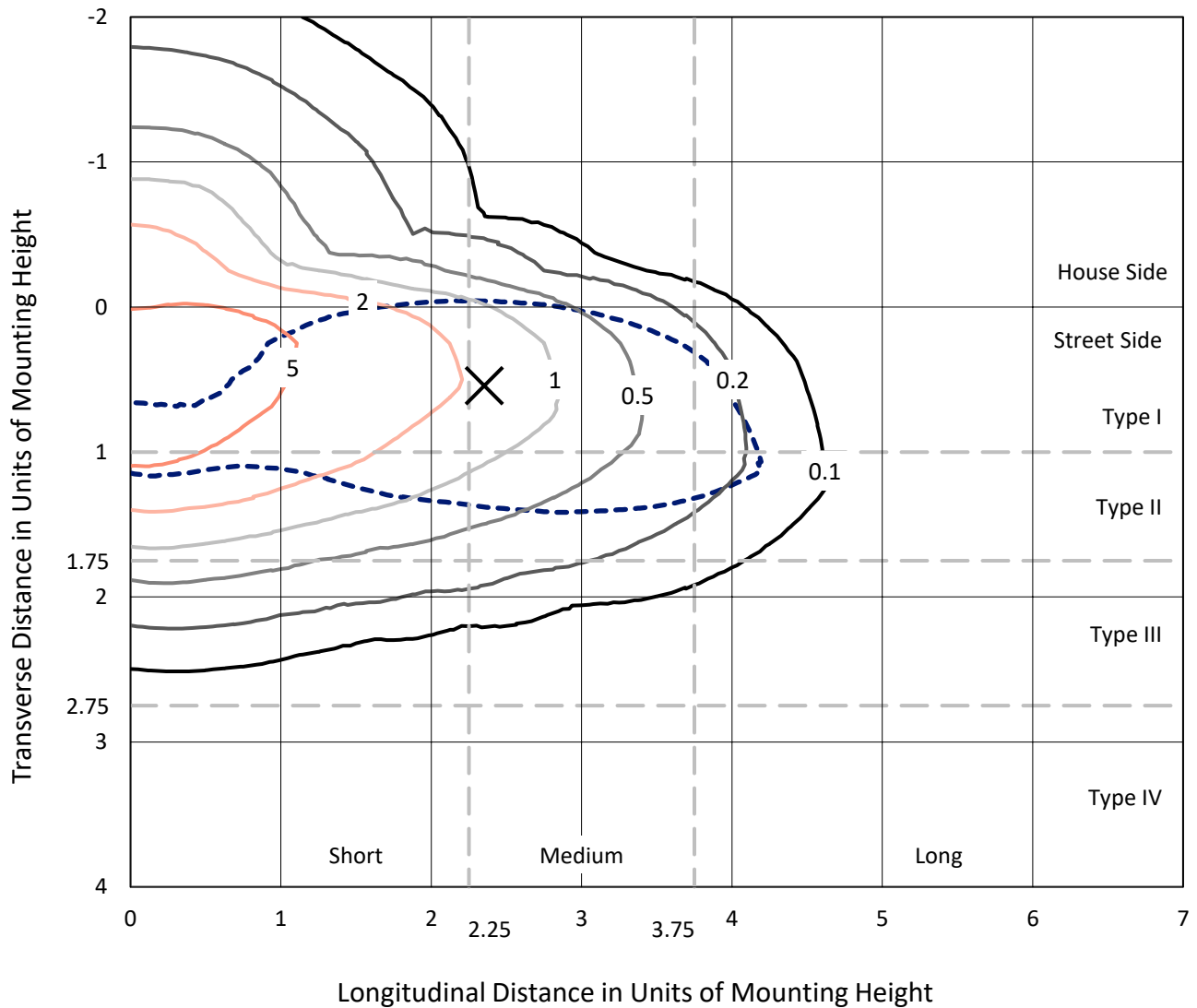
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

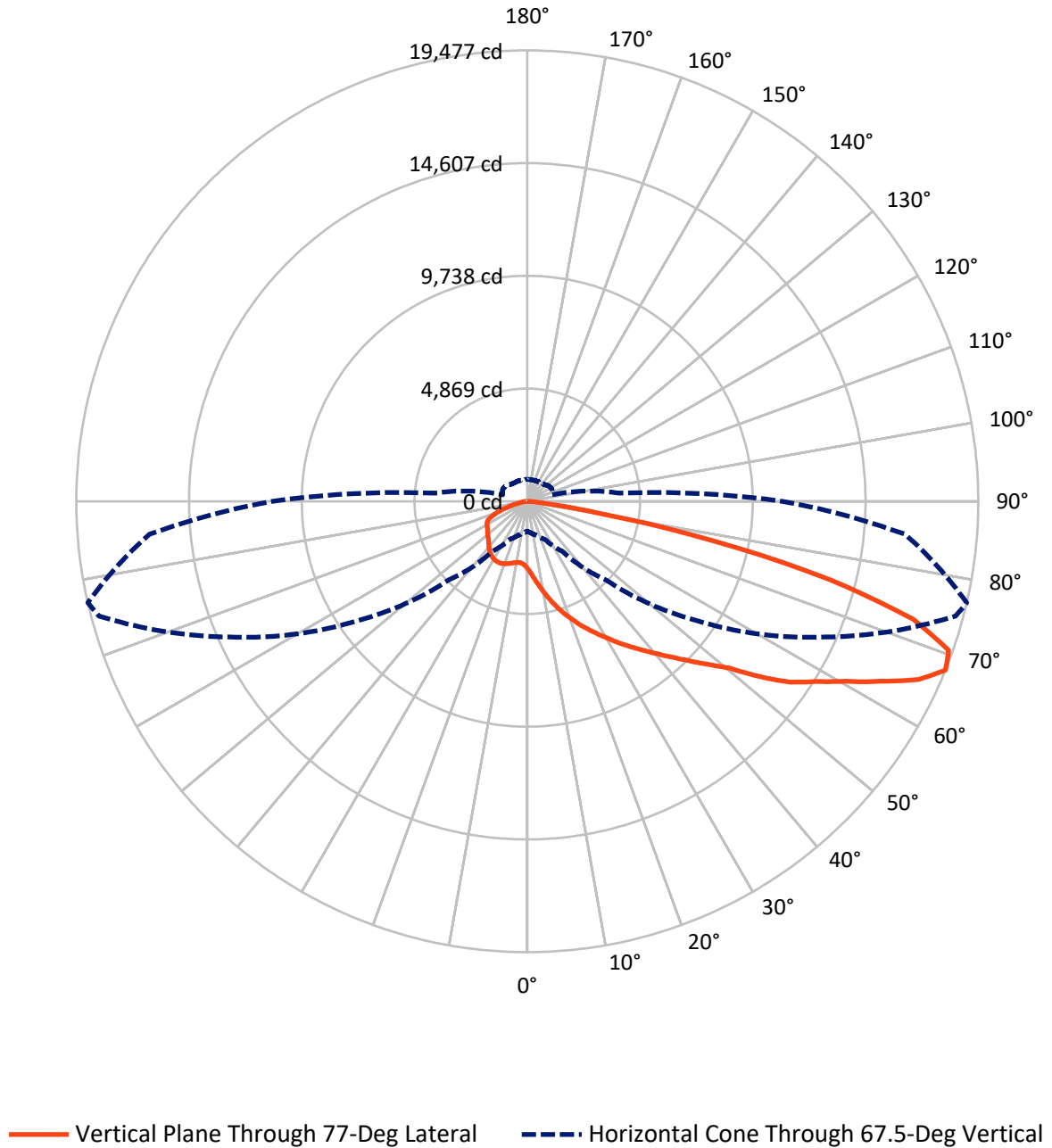
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4696.5	0.0	4696.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20131.5	0.0	20131.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	24828.0	0.0	24828.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.3
10°-20°	1121.8	4.5
20°-30°	2118.0	8.5
30°-40°	3412.1	13.7
40°-50°	4667.1	18.8
50°-60°	5264.5	21.2
60°-70°	4913.8	19.8
70°-80°	2693.6	10.8
80°-90°	324.9	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°	24828.0	100.0
0°-180°	24828.0	100.0



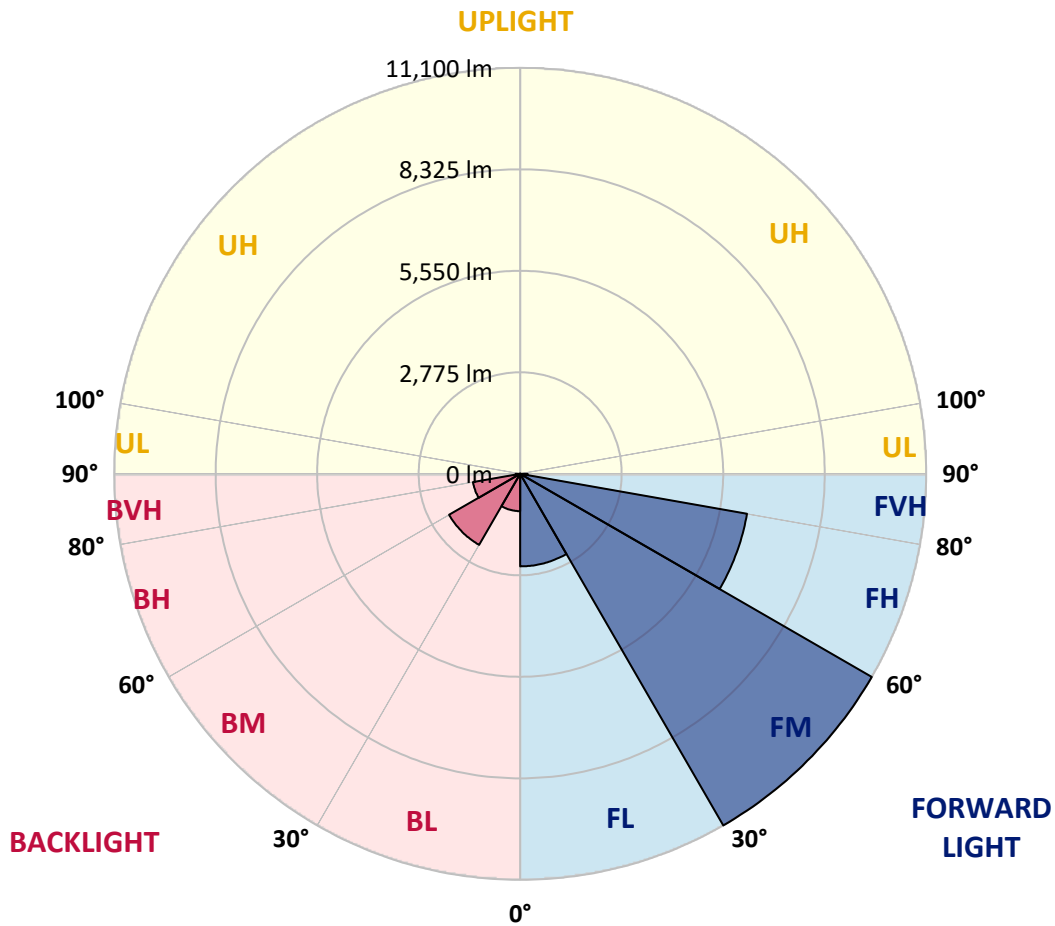
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2530.9	10.2			
FM (30°-60°)	11100.3	44.7			
FH (60°-80°)	6297.1	25.4			G3/7500
FVH (80°-90°)	203.2	0.8			G2/225
BL (0°-30°)	1021.1	4.1	B3/2500		
BM (30°-60°)	2243.4	9.0	B2/2500		
BH (60°-80°)	1310.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	121.7	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°	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1
2.5°	3647.5	3673.1	3641.0	3641.0	3533.4	3477.0	3369.3	3287.3	3139.9	3114.3
5°	4311.3	4343.4	4298.5	4279.3	4152.4	4035.8	3855.1	3676.9	3414.2	3387.3
7.5°	4825.3	4866.3	4826.5	4806.0	4693.2	4562.5	4351.1	4102.4	3732.0	3679.5
10°	5244.3	5250.7	5237.9	5245.6	5157.2	5049.5	4832.9	4543.3	4080.6	4008.9
12.5°	5481.4	5510.9	5536.5	5582.7	5567.3	5500.7	5305.9	4959.8	4449.7	4357.5
15°	5592.9	5644.2	5701.9	5808.2	5894.1	5910.8	5762.1	5407.1	4825.3	4713.8
17.5°	5632.7	5681.4	5772.4	5926.2	6110.7	6235.0	6168.4	5841.6	5196.9	5068.8
20°	5833.9	5848.0	5903.1	6049.2	6249.1	6455.5	6505.4	6259.4	5564.7	5419.9
22.5°	6264.5	6236.3	6251.7	6318.3	6461.9	6661.8	6775.9	6628.5	5942.8	5776.2
25°	6975.8	6893.8	6811.7	6734.9	6807.9	6920.7	7050.1	6997.6	6338.8	6127.4
27.5°	7874.2	7774.2	7593.5	7341.1	7252.6	7292.4	7350.0	7339.8	6705.4	6491.3
30°	8758.5	8641.9	8426.6	8061.3	7828.1	7723.0	7679.4	7649.9	7104.0	6875.8
32.5°	9464.7	9372.4	9160.9	8752.1	8413.8	8234.3	8089.5	7984.4	7520.5	7292.4
35°	10082.4	9996.5	9754.3	9308.3	8940.5	8749.5	8559.9	8335.6	7953.7	7723.0
37.5°	10646.3	10560.5	10228.5	9764.6	9394.2	9262.2	9093.0	8712.4	8388.1	8170.3
40°	11002.6	10983.4	10673.2	10147.8	9763.3	9697.9	9641.5	9149.4	8870.0	8667.5
42.5°	11093.6	11135.9	10889.8	10457.9	10091.4	10038.8	10170.8	9644.1	9410.8	9217.3
45°	10874.4	10996.2	10834.7	10541.2	10324.6	10296.4	10639.9	10184.9	10009.4	9832.5
47.5°	10319.5	10525.8	10459.2	10418.2	10387.4	10509.2	11052.6	10759.1	10687.3	10533.5
50°	9199.4	9590.3	9706.9	9965.8	10263.1	10674.5	11428.1	11385.8	11479.4	11324.3
52.5°	7262.9	7801.1	8477.8	9126.3	9881.2	10619.4	11840.8	12285.5	12680.2	12595.6
55°	5995.4	6237.6	6757.9	7947.3	9140.4	10387.4	12026.6	13012.2	13872.1	13796.5
57.5°	5021.3	5237.9	5558.3	6551.6	8020.3	9860.7	12142.0	13455.6	14688.5	14680.8
60°	3976.8	4206.2	4534.3	5237.9	6711.8	8950.8	12116.3	13960.6	15730.5	15794.5
62.5°	2797.8	3050.2	3414.2	4070.4	5375.1	7771.7	11593.4	14325.8	16957.0	17131.3
65°	1839.1	2005.7	2280.0	2846.5	4005.0	6255.5	10595.1	14373.2	18269.3	18564.1
67.5°	1289.3	1353.4	1514.9	1822.4	2640.1	4797.1	9004.6	13882.4	19144.7	19476.6
70°	1006.1	1038.1	1120.1	1243.2	1658.4	3225.8	6900.2	12605.9	18957.6	19303.6
72.5°	868.9	899.7	930.4	945.8	1112.4	1991.6	4674.0	10539.9	17195.3	17429.9
75°	788.2	795.9	821.5	816.4	848.4	1291.9	2697.8	7679.4	13567.1	13486.4
77.5°	662.6	672.8	715.1	708.7	753.6	883.0	1400.8	4956.0	8795.7	8247.1
80°	561.3	566.5	612.6	604.9	654.9	639.5	715.1	2526.1	3730.8	3160.4
82.5°	194.8	240.9	467.8	481.9	499.8	387.0	412.7	1030.4	1139.3	872.8
85°	94.8	101.2	238.4	338.3	337.1	194.8	201.2	367.8	358.9	282.0
87.5°	15.4	19.2	28.2	132.0	105.1	51.3	69.2	71.8	74.3	64.1
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°
2913.1	0°	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1
3016.9	2.5°	2945.1	2881.1	2746.5	2622.2	2524.8	2431.2	2378.7	2333.8	2308.2	2303.1
3157.9	5°	3024.6	2892.6	2647.8	2441.5	2306.9	2206.9	2154.4	2121.1	2104.4	2094.1
3347.6	7.5°	3138.7	2945.1	2596.5	2362.0	2221.0	2149.3	2122.3	2117.2	2115.9	2117.2
3577.0	10°	3296.3	3031.0	2591.4	2342.8	2224.9	2185.1	2183.9	2185.1	2190.3	2191.6
3826.9	12.5°	3466.8	3119.4	2611.9	2359.4	2273.6	2251.8	2247.9	2246.7	2250.5	2253.1
4079.4	15°	3652.6	3236.1	2646.5	2395.3	2327.4	2304.3	2300.5	2292.8	2291.5	2290.2
4344.7	17.5°	3843.5	3351.4	2685.0	2433.8	2362.0	2330.0	2315.9	2297.9	2283.8	2280.0
4618.9	20°	4037.1	3465.5	2711.9	2453.0	2364.6	2319.7	2291.5	2260.8	2236.4	2222.3
4895.7	22.5°	4243.4	3584.7	2728.5	2447.9	2341.5	2280.0	2228.7	2192.8	2155.7	2131.3
5175.1	25°	4444.6	3688.5	2727.3	2421.0	2296.6	2218.5	2153.1	2107.0	2055.7	2030.1
5463.5	27.5°	4638.1	3782.0	2695.2	2373.5	2232.6	2145.4	2067.2	2012.1	1962.1	1937.8
5754.4	30°	4838.1	3860.2	2645.2	2304.3	2156.9	2060.8	1975.0	1927.5	1882.7	1859.6
6062.0	32.5°	5036.7	3932.0	2574.8	2218.5	2069.8	1977.5	1892.9	1849.4	1822.4	1822.4
6392.7	35°	5246.9	3982.0	2481.2	2118.5	1977.5	1889.1	1822.4	1796.8	1794.3	1778.9
6742.5	37.5°	5468.6	4014.0	2367.1	2016.0	1886.5	1803.2	1782.7	1752.0	1726.3	1693.0
7127.0	40°	5701.9	4046.0	2230.0	1909.6	1790.4	1744.3	1735.3	1694.3	1621.2	1539.2
7562.8	42.5°	5985.1	4067.8	2087.7	1803.2	1689.2	1673.8	1686.6	1616.1	1499.5	1438.0
8088.2	45°	6313.2	4103.7	1957.0	1698.1	1585.3	1585.3	1639.2	1546.9	1450.8	1412.3
8688.0	47.5°	6738.7	4187.0	1835.3	1582.8	1489.2	1514.9	1534.1	1463.6	1409.8	1362.3
9418.5	50°	7353.9	4386.9	1709.7	1466.2	1416.2	1467.4	1440.5	1399.5	1336.7	1298.3
10579.7	52.5°	8117.7	4504.9	1598.2	1361.1	1353.4	1404.6	1366.2	1327.7	1280.3	1229.1
11460.1	55°	8638.0	4526.6	1504.6	1284.2	1311.1	1306.0	1291.9	1257.3	1231.6	1163.7
12329.1	57.5°	9219.9	4570.2	1427.7	1238.0	1284.2	1227.8	1222.7	1193.2	1159.9	1113.7
13389.0	60°	9915.8	4638.1	1361.1	1220.1	1261.1	1176.5	1150.9	1139.3	1106.0	1083.0
14664.2	62.5°	10674.5	4699.7	1293.1	1222.7	1234.2	1126.5	1088.1	1084.2	1063.7	1056.0
15861.2	65°	11192.3	4531.8	1208.6	1220.1	1191.9	1075.3	1026.6	1025.3	1008.6	1006.1
16380.2	67.5°	11011.6	3999.9	1094.5	1184.2	1148.3	1024.0	970.2	965.1	943.3	944.5
15838.1	70°	10106.8	3241.2	936.9	1095.8	1094.5	977.9	911.2	894.6	865.1	870.2
13770.9	72.5°	8409.9	2401.7	725.4	948.4	1008.6	935.6	843.3	816.4	779.2	784.3
10165.7	75°	6073.5	1632.8	528.0	721.5	877.9	885.6	776.7	730.5	685.7	693.4
5658.3	77.5°	3107.9	925.3	388.3	497.3	689.5	804.9	716.4	654.9	644.6	716.4
1631.5	80°	1013.8	463.9	269.1	348.6	452.4	658.7	628.0	557.5	554.9	571.6
342.2	82.5°	302.5	196.1	173.0	229.4	249.9	505.0	542.1	421.6	362.7	381.9
114.1	85°	103.8	94.8	98.7	114.1	119.2	296.1	379.4	279.4	264.0	290.9
25.6	87.5°	24.4	33.3	28.2	25.6	25.6	71.8	147.4	116.6	161.5	107.7
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>
2913.1
2303.1
2092.9
2121.1
2192.8
2254.3
2289.0
2283.8
2227.4
2132.6
2030.1
1936.5
1858.3
1823.7
1775.0
1687.9
1527.7
1439.2
1418.7
1361.1
1294.4
1218.8
1165.0
1098.3
1089.4
1056.0
1004.8
944.5
875.3
783.1
695.9
706.2
490.9
394.7
287.1
103.8
0.0

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