

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: P951060

Luminaire Tested: **GALN-SB5B-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951060  
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-SB5B-827-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

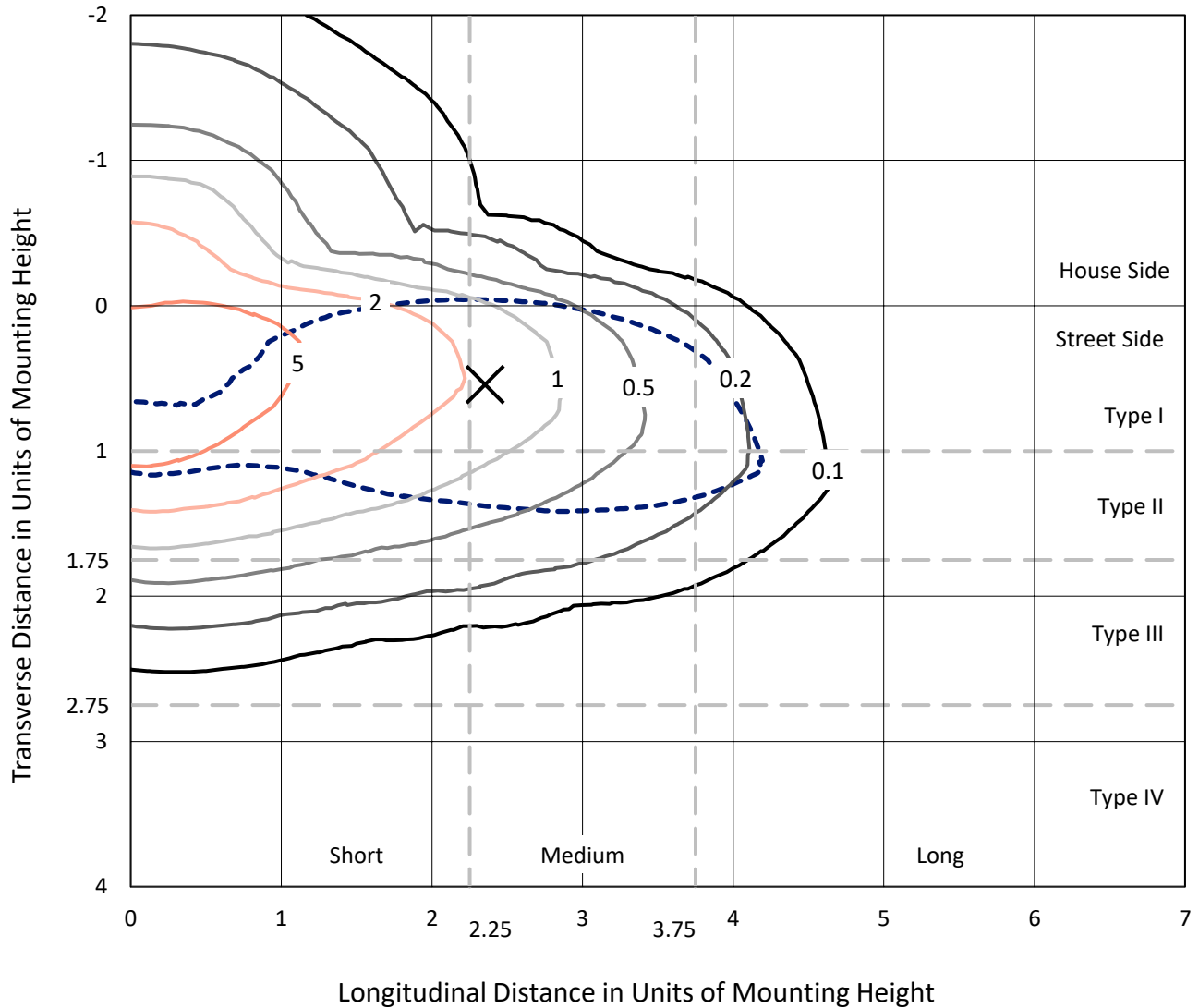
Lumens per Lamp: N/A  
Luminaire Lumens: 25194 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

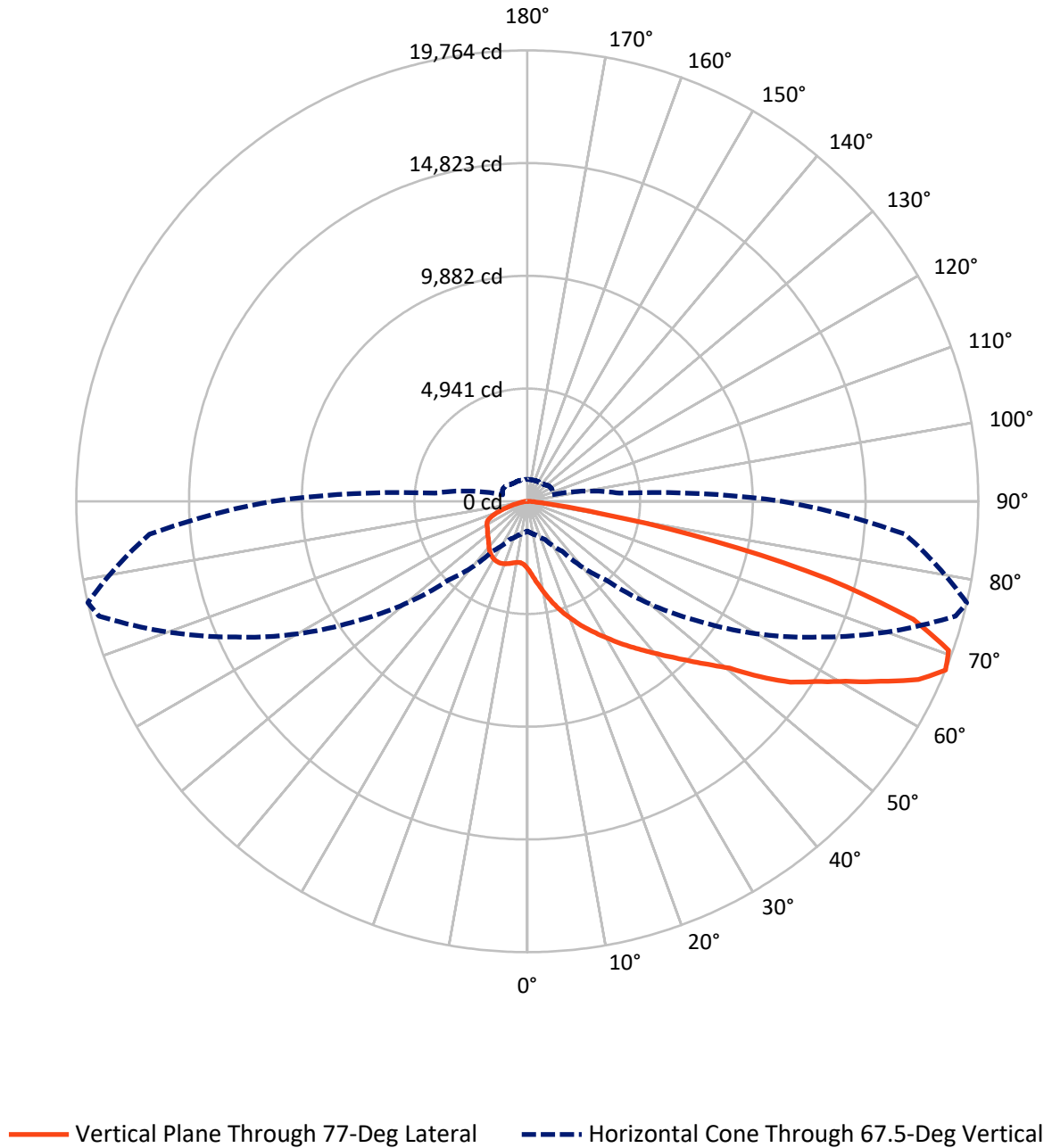
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4765.7	0.0	4765.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	20428.3	0.0	20428.3
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	25194.0	0.0	25194.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.8	1.3
10°-20°	1138.3	4.5
20°-30°	2149.2	8.5
30°-40°	3462.4	13.7
40°-50°	4735.9	18.8
50°-60°	5342.1	21.2
60°-70°	4986.2	19.8
70°-80°	2733.3	10.8
80°-90°	329.7	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°	25194.0	100.0
0°-180°	25194.0	100.0



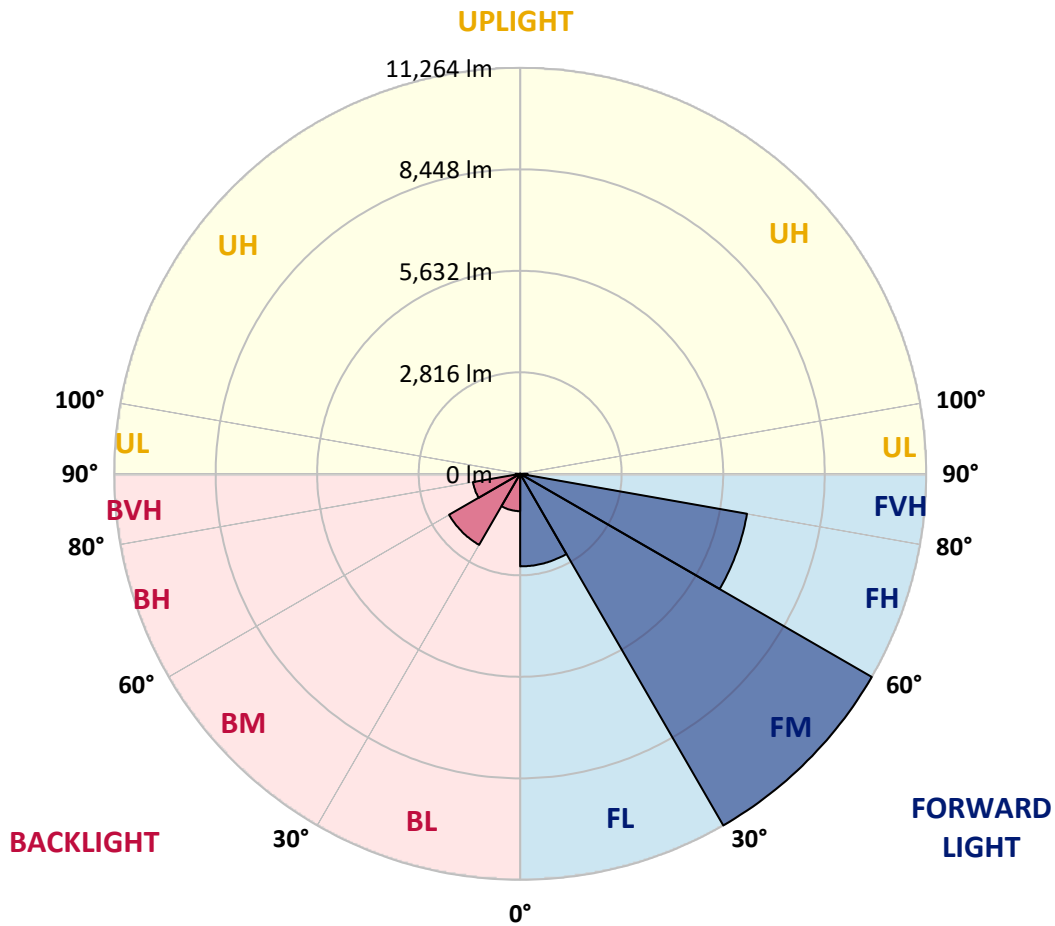
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2568.2	10.2			
FM (30°-60°)	11264.0	44.7			
FH (60°-80°)	6389.9	25.4			G3/7500
FVH (80°-90°)	206.2	0.8			G2/225
BL (0°-30°)	1036.2	4.1	B3/2500		
BM (30°-60°)	2276.5	9.0	B2/2500		
BH (60°-80°)	1329.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	123.5	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°	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0
2.5°	3701.2	3727.2	3694.7	3694.7	3585.5	3528.3	3419.0	3335.8	3186.2	3160.2
5°	4374.9	4407.4	4361.9	4342.4	4213.6	4095.3	3911.9	3731.1	3464.5	3437.2
7.5°	4896.4	4938.0	4897.7	4876.9	4762.4	4629.8	4415.2	4162.9	3787.1	3733.7
10°	5321.7	5328.2	5315.1	5323.0	5233.2	5124.0	4904.2	4610.3	4140.8	4068.0
12.5°	5562.2	5592.2	5618.2	5665.0	5649.4	5581.8	5384.1	5032.9	4515.3	4421.7
15°	5675.4	5727.4	5785.9	5893.9	5981.0	5997.9	5847.1	5486.8	4896.4	4783.2
17.5°	5715.7	5765.1	5857.5	6013.5	6200.8	6326.9	6259.3	5927.7	5273.5	5143.5
20°	5919.9	5934.2	5990.1	6138.4	6341.2	6550.6	6601.3	6351.6	5646.8	5499.8
22.5°	6356.8	6328.2	6343.8	6411.5	6557.1	6760.0	6875.7	6726.2	6030.4	5861.4
25°	7078.6	6995.4	6912.2	6834.1	6908.3	7022.7	7154.1	7100.7	6432.3	6217.7
27.5°	7990.3	7888.8	7705.5	7449.3	7359.5	7399.9	7458.4	7448.0	6804.2	6587.0
30°	8887.6	8769.3	8550.8	8180.2	7943.5	7836.8	7792.6	7762.7	7208.7	6977.2
32.5°	9604.2	9510.6	9296.0	8881.1	8537.8	8355.7	8208.8	8102.1	7631.3	7399.9
35°	10231.0	10143.9	9898.1	9445.5	9072.3	8878.5	8686.0	8458.5	8070.9	7836.8
37.5°	10803.3	10716.1	10379.3	9908.5	9532.7	9398.7	9227.1	8840.8	8511.8	8290.7
40°	11164.8	11145.3	10830.6	10297.4	9907.2	9840.9	9783.7	9284.3	9000.8	8795.3
42.5°	11257.1	11300.1	11050.4	10612.1	10240.1	10186.8	10320.8	9786.3	9549.6	9353.2
45°	11034.8	11158.3	10994.4	10696.6	10476.8	10448.2	10796.8	10335.1	10156.9	9977.4
47.5°	10471.6	10681.0	10613.4	10571.8	10540.6	10664.1	11215.5	10917.7	10844.9	10688.8
50°	9335.0	9731.6	9850.0	10112.7	10414.4	10831.9	11596.6	11553.7	11648.6	11491.2
52.5°	7369.9	7916.1	8602.8	9260.9	10026.9	10776.0	12015.3	12466.6	12867.2	12781.3
55°	6083.7	6329.5	6857.5	8064.4	9275.2	10540.6	12203.9	13204.0	14076.6	13999.9
57.5°	5095.4	5315.1	5640.3	6648.2	8138.5	10006.1	12320.9	13654.0	14905.0	14897.2
60°	4035.5	4268.2	4601.2	5315.1	6810.7	9082.7	12294.9	14166.4	15962.4	16027.4
62.5°	2839.0	3095.2	3464.5	4130.4	5454.3	7886.2	11764.3	14537.0	17206.9	17383.8
65°	1866.2	2035.3	2313.6	2888.4	4064.1	6347.7	10751.2	14585.1	18538.6	18837.8
67.5°	1308.3	1373.3	1537.2	1849.3	2679.0	4867.8	9137.3	14087.0	19426.9	19763.7
70°	1020.9	1053.4	1136.6	1261.5	1682.8	3273.4	7001.9	12791.7	19237.0	19588.1
72.5°	881.7	913.0	944.2	959.8	1128.8	2021.0	4742.9	10695.3	17448.8	17686.8
75°	799.8	807.6	833.6	828.4	860.9	1310.9	2737.6	7792.6	13767.1	13685.2
77.5°	672.4	682.8	725.7	719.2	764.7	896.0	1421.4	5029.0	8925.3	8368.7
80°	569.6	574.8	621.6	613.8	664.6	649.0	725.7	2563.3	3785.8	3207.0
82.5°	197.7	244.5	474.7	489.0	507.2	392.8	418.8	1045.6	1156.1	885.6
85°	96.2	102.7	241.9	343.3	342.0	197.7	204.2	373.2	364.1	286.1
87.5°	15.6	19.5	28.6	134.0	106.6	52.0	70.2	72.8	75.4	65.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2956.0	0°	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0
3061.4	2.5°	2988.6	2923.5	2787.0	2660.8	2562.0	2467.1	2413.7	2368.2	2342.2	2337.0
3204.4	5°	3069.2	2935.2	2686.8	2477.5	2340.9	2239.5	2186.1	2152.3	2135.4	2125.0
3396.9	7.5°	3184.9	2988.6	2634.8	2396.8	2253.8	2180.9	2153.6	2148.4	2147.1	2148.4
3629.7	10°	3344.9	3075.7	2629.6	2377.3	2257.7	2217.4	2216.1	2217.4	2222.6	2223.9
3883.3	12.5°	3517.9	3165.4	2650.4	2394.2	2307.1	2285.0	2281.1	2279.8	2283.7	2286.3
4139.5	15°	3706.4	3283.8	2685.5	2430.6	2361.7	2338.3	2334.4	2326.6	2325.3	2324.0
4408.7	17.5°	3900.2	3400.8	2724.5	2469.7	2396.8	2364.3	2350.0	2331.8	2317.5	2313.6
4687.0	20°	4096.6	3516.6	2751.9	2489.2	2399.4	2353.9	2325.3	2294.1	2269.4	2255.1
4967.9	22.5°	4306.0	3637.5	2768.8	2484.0	2376.0	2313.6	2261.6	2225.2	2187.4	2162.7
5251.4	25°	4510.1	3742.8	2767.5	2456.6	2330.5	2251.2	2184.8	2138.0	2086.0	2060.0
5544.0	27.5°	4706.5	3837.8	2735.0	2408.5	2265.5	2177.0	2097.7	2041.8	1991.1	1966.4
5839.2	30°	4909.4	3917.1	2684.2	2338.3	2188.7	2091.2	2004.1	1956.0	1910.4	1887.0
6151.4	32.5°	5111.0	3989.9	2612.7	2251.2	2100.3	2006.7	1920.8	1876.6	1849.3	1849.3
6486.9	35°	5324.3	4040.7	2517.8	2149.7	2006.7	1916.9	1849.3	1823.3	1820.7	1805.1
6841.9	37.5°	5549.2	4073.2	2402.0	2045.7	1914.3	1829.8	1809.0	1777.8	1751.8	1718.0
7232.1	40°	5785.9	4105.7	2262.9	1937.7	1816.8	1770.0	1760.9	1719.3	1645.1	1561.9
7674.3	42.5°	6073.3	4127.8	2118.5	1829.8	1714.1	1698.5	1711.5	1639.9	1521.6	1459.2
8207.5	45°	6406.3	4164.2	1985.9	1723.2	1608.7	1608.7	1663.3	1569.7	1472.2	1433.2
8816.1	47.5°	6838.0	4248.7	1862.3	1606.1	1511.2	1537.2	1556.7	1485.2	1430.6	1382.4
9557.4	50°	7462.3	4451.6	1734.9	1487.8	1437.1	1489.1	1461.8	1420.1	1356.4	1317.4
10735.6	52.5°	8237.4	4571.3	1621.7	1381.1	1373.3	1425.3	1386.3	1347.3	1299.2	1247.2
11629.1	55°	8765.4	4593.4	1526.8	1303.1	1330.4	1325.2	1310.9	1275.8	1249.8	1180.9
12510.8	57.5°	9355.8	4637.6	1448.8	1256.3	1303.1	1245.9	1240.7	1210.8	1177.0	1130.1
13586.3	60°	10062.0	4706.5	1381.1	1238.1	1279.7	1193.9	1167.8	1156.1	1122.3	1098.9
14880.3	62.5°	10831.9	4768.9	1312.2	1240.7	1252.4	1143.1	1104.1	1100.2	1079.4	1071.6
16095.0	65°	11357.3	4598.6	1226.4	1238.1	1209.5	1091.1	1041.7	1040.4	1023.5	1020.9
16621.7	67.5°	11173.9	4058.9	1110.6	1201.7	1165.2	1039.1	984.5	979.3	957.2	958.5
16071.6	70°	10255.8	3289.0	950.7	1111.9	1110.6	992.3	924.7	907.7	877.8	883.0
13973.9	72.5°	8533.9	2437.1	736.1	962.4	1023.5	949.4	855.7	828.4	790.7	795.9
10315.6	75°	6163.1	1656.8	535.8	732.2	890.8	898.6	788.1	741.3	695.8	703.6
5741.7	77.5°	3153.7	939.0	394.1	504.6	699.7	816.7	727.0	664.6	654.2	727.0
1655.5	80°	1028.7	470.8	273.1	353.7	459.1	668.5	637.2	565.7	563.1	580.0
347.2	82.5°	306.9	199.0	175.6	232.8	253.6	512.4	550.1	427.9	368.0	387.5
115.7	85°	105.3	96.2	100.1	115.7	120.9	300.4	384.9	283.5	267.9	295.2
26.0	87.5°	24.7	33.8	28.6	26.0	26.0	72.8	149.6	118.3	163.9	109.2
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>
2956.0
2337.0
2123.7
2152.3
2225.2
2287.6
2322.7
2317.5
2260.3
2164.0
2060.0
1965.1
1885.7
1850.6
1801.2
1712.8
1550.2
1460.5
1439.7
1381.1
1313.5
1236.8
1182.2
1114.5
1105.4
1071.6
1019.6
958.5
888.2
794.6
706.2
716.6
498.1
400.6
291.3
105.3
0.0

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