

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: P953559

Luminaire Tested: **GALN-SB7A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953559
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-SB7A-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28255 lumens
Efficiency: N/A
Efficacy: 141.9 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

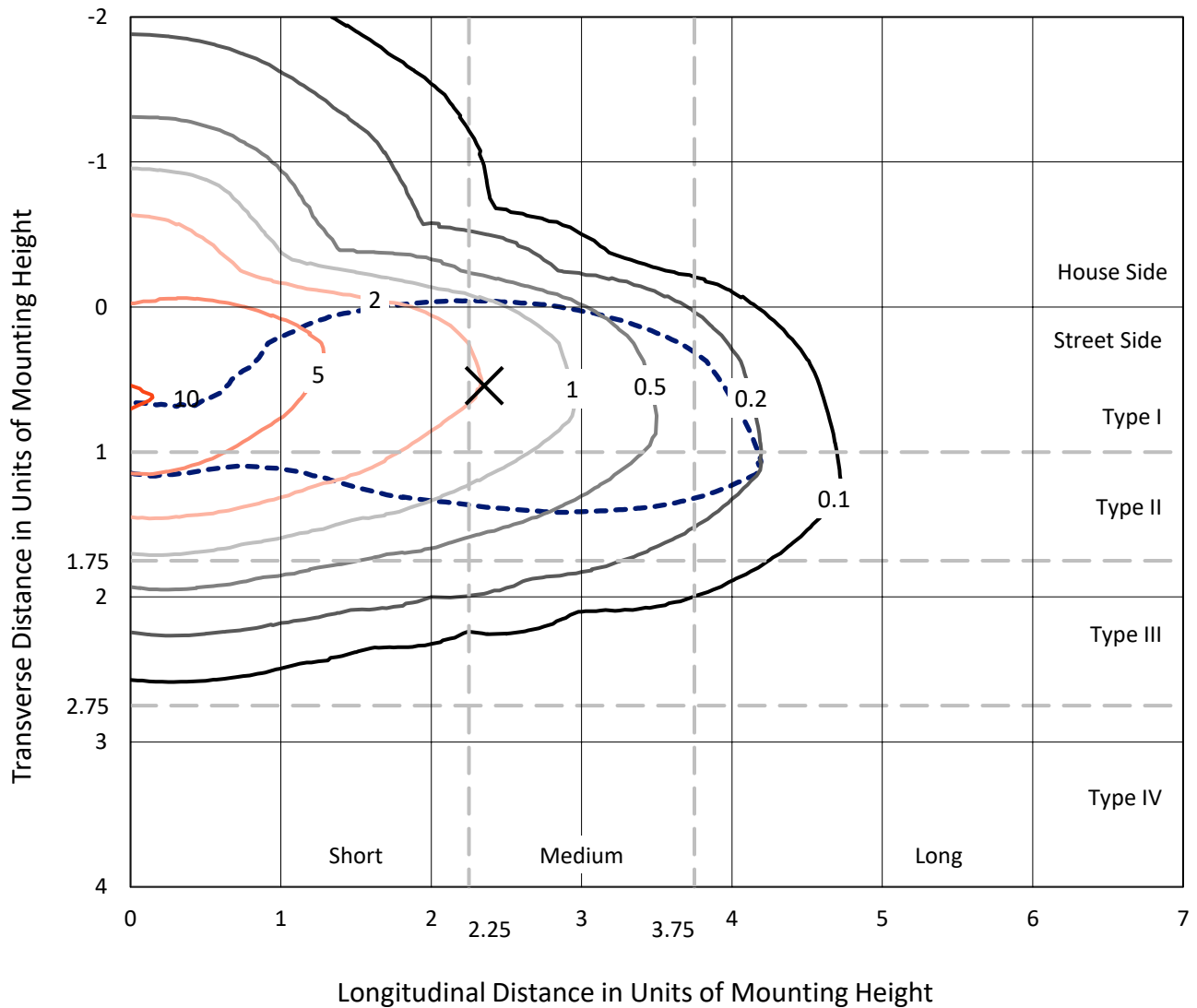
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

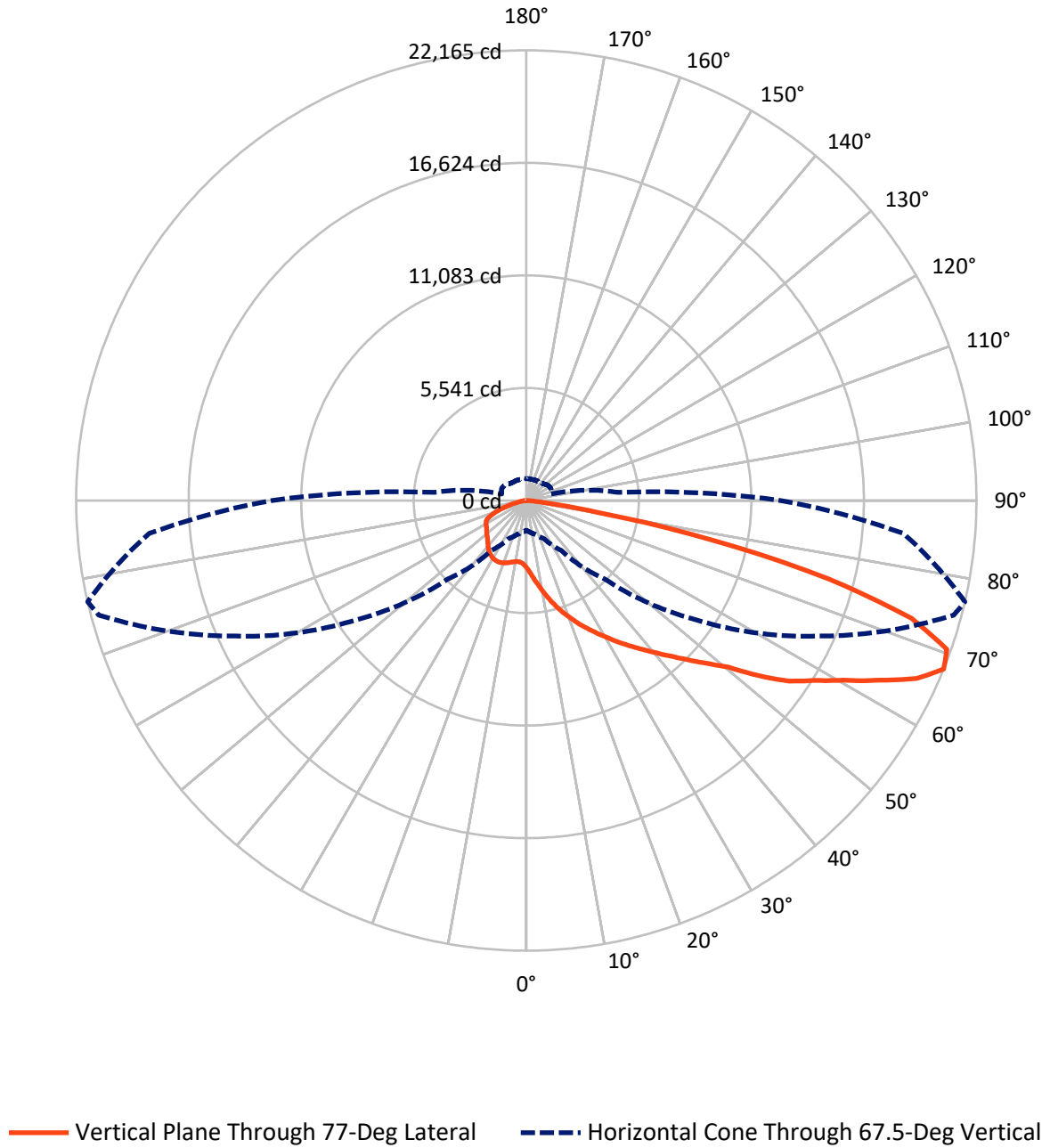
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	5344.7	0.0	5344.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22910.3	0.0	22910.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	28255.0	0.0	28255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	1.3
10°-20°	1276.6	4.5
20°-30°	2410.4	8.5
30°-40°	3883.0	13.7
40°-50°	5311.3	18.8
50°-60°	5991.2	21.2
60°-70°	5592.0	19.8
70°-80°	3065.4	10.8
80°-90°	369.8	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°	28255.0	100.0
0°-180°	28255.0	100.0

Coefficient of Utilization



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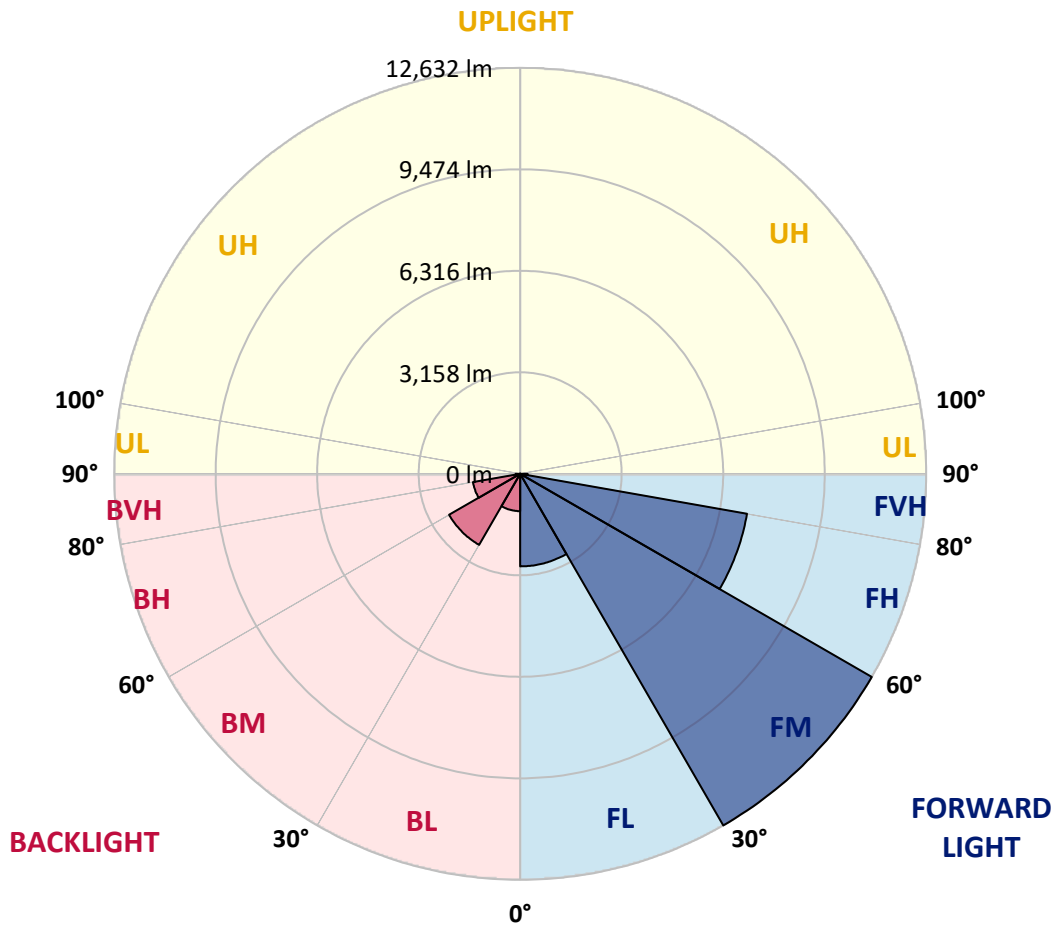
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2880.2	10.2			
FM (30°-60°)	12632.5	44.7			
FH (60°-80°)	7166.3	25.4			G3/7500
FVH (80°-90°)	231.2	0.8			G3/500
BL (0°-30°)	1162.1	4.1	B3/2500		
BM (30°-60°)	2553.0	9.0	B3/5000		
BH (60°-80°)	1491.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	138.5	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°	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2
2.5°	4150.9	4180.1	4143.6	4143.6	4021.1	3956.9	3834.4	3741.1	3573.3	3544.2
5°	4906.4	4942.9	4891.8	4870.0	4725.6	4592.8	4387.2	4184.5	3885.5	3854.8
7.5°	5491.3	5538.0	5492.7	5469.4	5341.1	5192.3	4951.6	4668.7	4247.2	4187.4
10°	5968.2	5975.5	5960.9	5969.7	5869.0	5746.5	5500.0	5170.4	4643.9	4562.2
12.5°	6238.0	6271.6	6300.8	6353.3	6335.8	6259.9	6038.2	5644.4	5063.9	4958.9
15°	6364.9	6423.3	6488.9	6610.0	6707.7	6726.6	6557.5	6153.4	5491.3	5364.4
17.5°	6410.1	6465.6	6569.1	6744.1	6954.2	7095.6	7019.8	6647.9	5914.3	5768.4
20°	6639.1	6655.2	6717.9	6884.2	7111.7	7346.5	7403.4	7123.4	6332.8	6168.0
22.5°	7129.2	7097.1	7114.6	7190.4	7353.8	7581.3	7711.1	7543.4	6763.1	6573.5
25°	7938.7	7845.3	7752.0	7664.5	7747.6	7875.9	8023.3	7963.5	7213.8	6973.1
27.5°	8961.1	8847.3	8641.7	8354.3	8253.7	8298.9	8364.5	8352.9	7630.9	7387.3
30°	9967.4	9834.7	9589.7	9174.0	8908.6	8789.0	8739.4	8705.8	8084.5	7824.9
32.5°	10771.1	10666.1	10425.4	9960.2	9575.1	9370.9	9206.1	9086.5	8558.5	8298.9
35°	11474.1	11376.4	11100.7	10593.1	10174.6	9957.2	9741.4	9486.1	9051.5	8789.0
37.5°	12115.8	12018.1	11640.4	11112.4	10690.9	10540.6	10348.1	9914.9	9545.9	9298.0
40°	12521.3	12499.4	12146.5	11548.5	11110.9	11036.5	10972.4	10412.3	10094.3	9863.9
42.5°	12624.8	12673.0	12392.9	11901.4	11484.3	11424.5	11574.7	10975.3	10709.8	10489.6
45°	12375.4	12514.0	12330.2	11996.2	11749.7	11717.7	12108.5	11590.8	11390.9	11189.7
47.5°	11743.9	11978.7	11902.9	11856.2	11821.2	11959.8	12578.2	12244.2	12162.5	11987.5
50°	10469.2	10914.0	11046.7	11341.4	11679.7	12147.9	13005.5	12957.4	13063.9	12887.4
52.5°	8265.4	8877.9	9648.0	10386.0	11245.1	12085.2	13475.2	13981.3	14430.5	14334.2
55°	6822.9	7098.6	7690.7	9044.2	10402.1	11821.2	13686.6	14808.2	15786.9	15700.8
57.5°	5714.4	5960.9	6325.6	7455.9	9127.3	11221.8	13817.9	15312.9	16716.0	16707.2
60°	4525.8	4786.8	5160.2	5960.9	7638.2	10186.2	13788.7	15887.5	17901.7	17974.7
62.5°	3183.9	3471.2	3885.5	4632.2	6117.0	8844.4	13193.7	16303.2	19297.5	19495.9
65°	2093.0	2282.6	2594.7	3239.3	4557.8	7119.0	12057.5	16357.2	20791.0	21126.5
67.5°	1467.3	1540.2	1724.0	2074.0	3004.5	5459.2	10247.5	15798.6	21787.2	22165.0
70°	1144.9	1181.4	1274.7	1414.8	1887.3	3671.1	7852.6	14345.9	21574.3	21968.1
72.5°	988.9	1023.9	1058.9	1076.4	1266.0	2266.5	5319.2	11994.8	19568.8	19835.7
75°	897.0	905.7	934.9	929.1	965.5	1470.2	3070.2	8739.4	15439.8	15347.9
77.5°	754.0	765.7	813.8	806.6	857.6	1004.9	1594.1	5640.1	10009.7	9385.5
80°	638.8	644.7	697.2	688.4	745.3	727.8	813.8	2874.7	4245.7	3596.7
82.5°	221.7	274.2	532.4	548.4	568.8	440.5	469.6	1172.6	1296.6	993.2
85°	107.9	115.2	271.3	385.0	383.6	221.7	229.0	418.6	408.4	320.9
87.5°	17.5	21.9	32.1	150.2	119.6	58.3	78.8	81.7	84.6	72.9
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°
3315.2	0°	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2
3433.3	2.5°	3351.7	3278.7	3125.6	2984.1	2873.3	2766.8	2707.0	2655.9	2626.8	2620.9
3593.8	5°	3442.1	3291.9	3013.3	2778.5	2625.3	2511.6	2451.8	2413.8	2394.9	2383.2
3809.6	7.5°	3571.9	3351.7	2954.9	2688.0	2527.6	2445.9	2415.3	2409.5	2408.0	2409.5
4070.7	10°	3751.3	3449.4	2949.1	2666.2	2532.0	2486.8	2485.3	2486.8	2492.6	2494.0
4355.1	12.5°	3945.3	3550.0	2972.4	2685.1	2587.4	2562.6	2558.2	2556.8	2561.1	2564.1
4642.4	15°	4156.7	3682.7	3011.8	2726.0	2648.7	2622.4	2618.0	2609.3	2607.8	2606.4
4944.3	17.5°	4374.1	3814.0	3055.6	2769.7	2688.0	2651.6	2635.5	2615.1	2599.1	2594.7
5256.5	20°	4594.3	3943.8	3086.2	2791.6	2690.9	2639.9	2607.8	2572.8	2545.1	2529.1
5571.5	22.5°	4829.1	4079.4	3105.2	2785.8	2664.7	2594.7	2536.3	2495.5	2453.2	2425.5
5889.5	25°	5058.1	4197.6	3103.7	2755.1	2613.6	2524.7	2450.3	2397.8	2339.4	2310.3
6217.6	27.5°	5278.3	4304.1	3067.2	2701.2	2540.7	2441.5	2352.6	2289.9	2233.0	2205.3
6548.7	30°	5505.9	4393.0	3010.4	2622.4	2454.7	2345.3	2247.6	2193.6	2142.5	2116.3
6898.7	32.5°	5731.9	4474.7	2930.1	2524.7	2355.5	2250.5	2154.2	2104.6	2074.0	2074.0
7275.0	35°	5971.1	4531.6	2823.7	2410.9	2250.5	2149.8	2074.0	2044.8	2041.9	2024.4
7673.2	37.5°	6223.5	4568.0	2693.9	2294.2	2146.9	2052.1	2028.8	1993.8	1964.6	1926.7
8110.8	40°	6488.9	4604.5	2537.8	2173.2	2037.5	1985.0	1974.8	1928.1	1845.0	1751.7
8606.7	42.5°	6811.2	4629.3	2375.9	2052.1	1922.3	1904.8	1919.4	1839.2	1706.5	1636.4
9204.6	45°	7184.6	4670.1	2227.1	1932.5	1804.2	1804.2	1865.4	1760.4	1651.0	1607.3
9887.2	47.5°	7668.8	4764.9	2088.6	1801.3	1694.8	1724.0	1745.8	1665.6	1604.4	1550.4
10718.6	50°	8368.9	4992.5	1945.7	1668.5	1611.7	1670.0	1639.4	1592.7	1521.2	1477.5
12040.0	52.5°	9238.2	5126.7	1818.8	1548.9	1540.2	1598.5	1554.8	1511.0	1457.0	1398.7
13042.0	55°	9830.3	5151.5	1712.3	1461.4	1492.1	1486.2	1470.2	1430.8	1401.6	1324.3
14030.8	57.5°	10492.5	5201.0	1624.8	1408.9	1461.4	1397.3	1391.4	1357.9	1319.9	1267.4
15237.0	60°	11284.5	5278.3	1548.9	1388.5	1435.2	1338.9	1309.7	1296.6	1258.7	1232.4
16688.3	62.5°	12147.9	5348.3	1471.6	1391.4	1404.5	1282.0	1238.3	1233.9	1210.6	1201.8
18050.5	65°	12737.2	5157.3	1375.4	1388.5	1356.4	1223.7	1168.3	1166.8	1147.8	1144.9
18641.2	67.5°	12531.5	4552.0	1245.6	1347.7	1306.8	1165.3	1104.1	1098.3	1073.5	1074.9
18024.2	70°	11501.8	3688.6	1066.2	1247.0	1245.6	1112.8	1037.0	1018.0	984.5	990.3
15671.7	72.5°	9570.7	2733.2	825.5	1079.3	1147.8	1064.7	959.7	929.1	886.8	892.6
11568.9	75°	6911.9	1858.1	600.9	821.1	999.1	1007.8	883.9	831.3	780.3	789.1
6439.3	77.5°	3536.9	1053.0	441.9	565.9	784.7	915.9	815.3	745.3	733.6	815.3
1856.7	80°	1153.7	528.0	306.3	396.7	514.9	749.7	714.7	634.5	631.5	650.5
389.4	82.5°	344.2	223.2	196.9	261.1	284.4	574.7	616.9	479.8	412.8	434.6
129.8	85°	118.1	107.9	112.3	129.8	135.6	336.9	431.7	318.0	300.5	331.1
29.2	87.5°	27.7	37.9	32.1	29.2	29.2	81.7	167.7	132.7	183.8	122.5
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>
3315.2
2620.9
2381.7
2413.8
2495.5
2565.5
2604.9
2599.1
2534.9
2427.0
2310.3
2203.8
2114.8
2075.5
2020.0
1920.9
1738.5
1637.9
1614.6
1548.9
1473.1
1387.0
1325.8
1249.9
1239.7
1201.8
1143.5
1074.9
996.2
891.1
792.0
803.6
558.6
449.2
326.7
118.1
0.0

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