

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: P943085

Luminaire Tested: **GALN-SB7B-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
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-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24153 lumens  
Efficiency: N/A  
Efficacy: 94.1 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

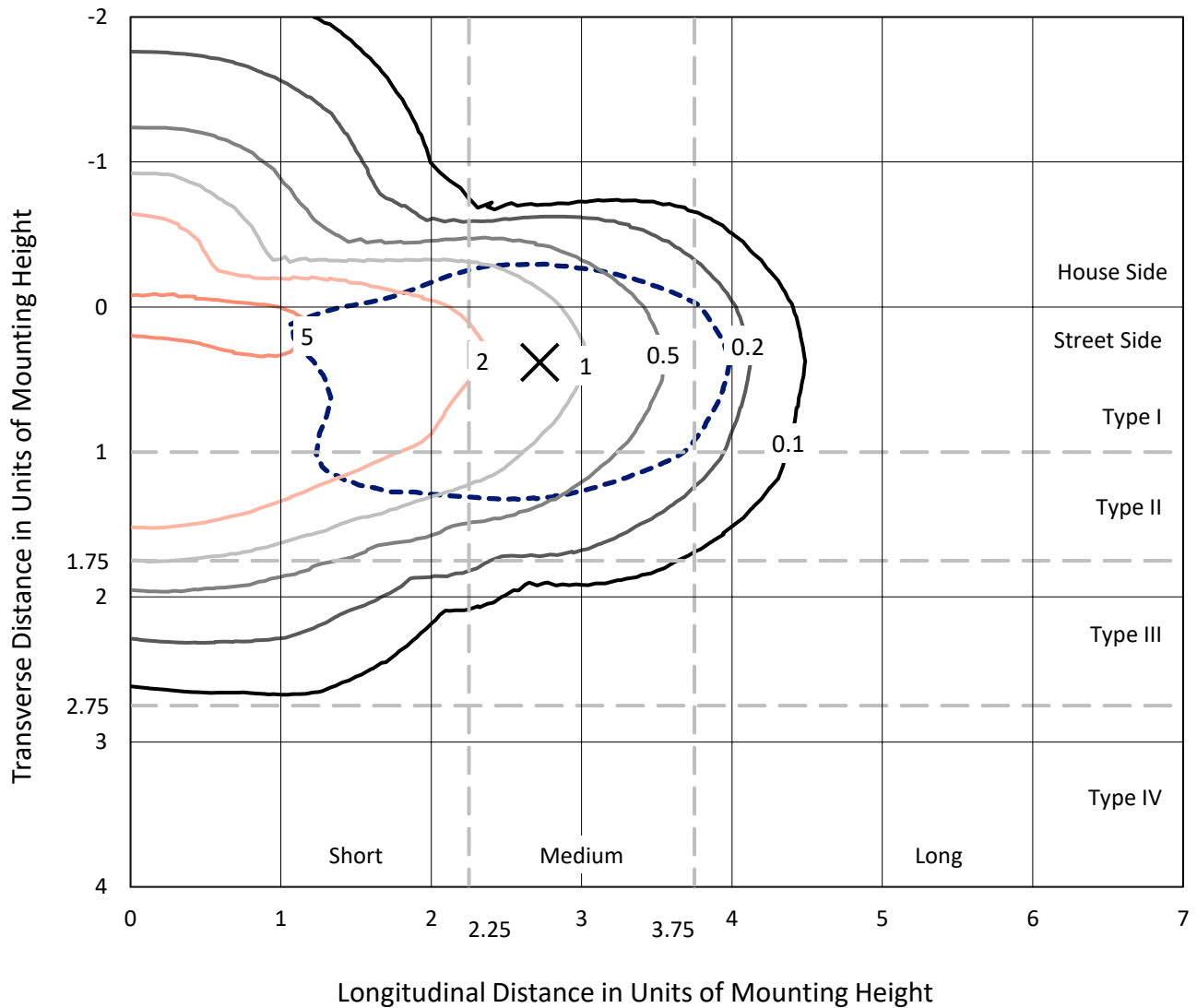
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

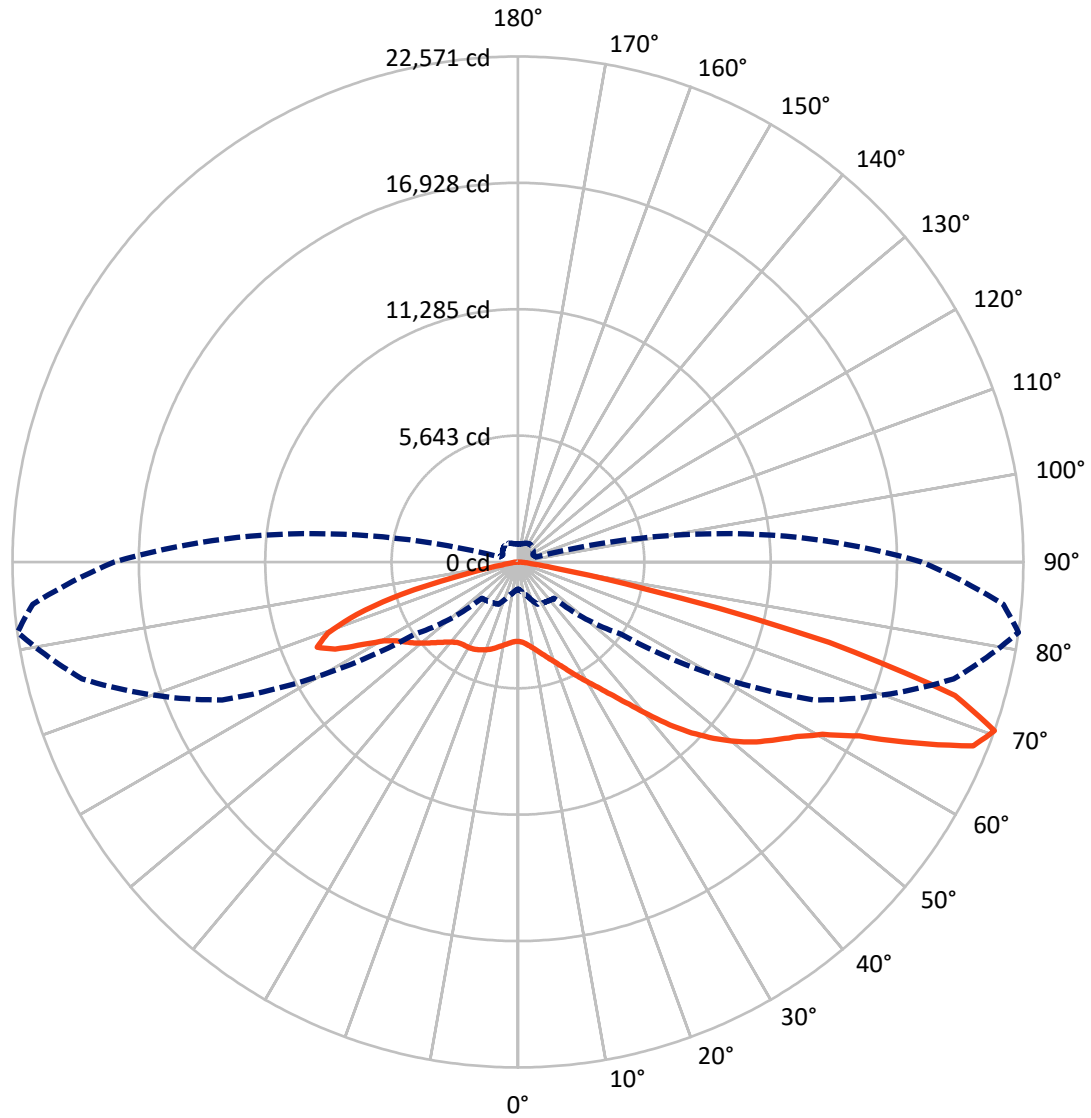
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5954.3	0.0	5954.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	18198.7	0.0	18198.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	24153.0	0.0	24153.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.3	1.4
10°-20°	960.6	4.0
20°-30°	1607.0	6.7
30°-40°	2510.5	10.4
40°-50°	3998.3	16.6
50°-60°	5564.1	23.0
60°-70°	5820.3	24.1
70°-80°	3042.0	12.6
80°-90°	315.9	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°	24153.0	100.0
0°-180°	24153.0	100.0

**Coefficient of Utilization**



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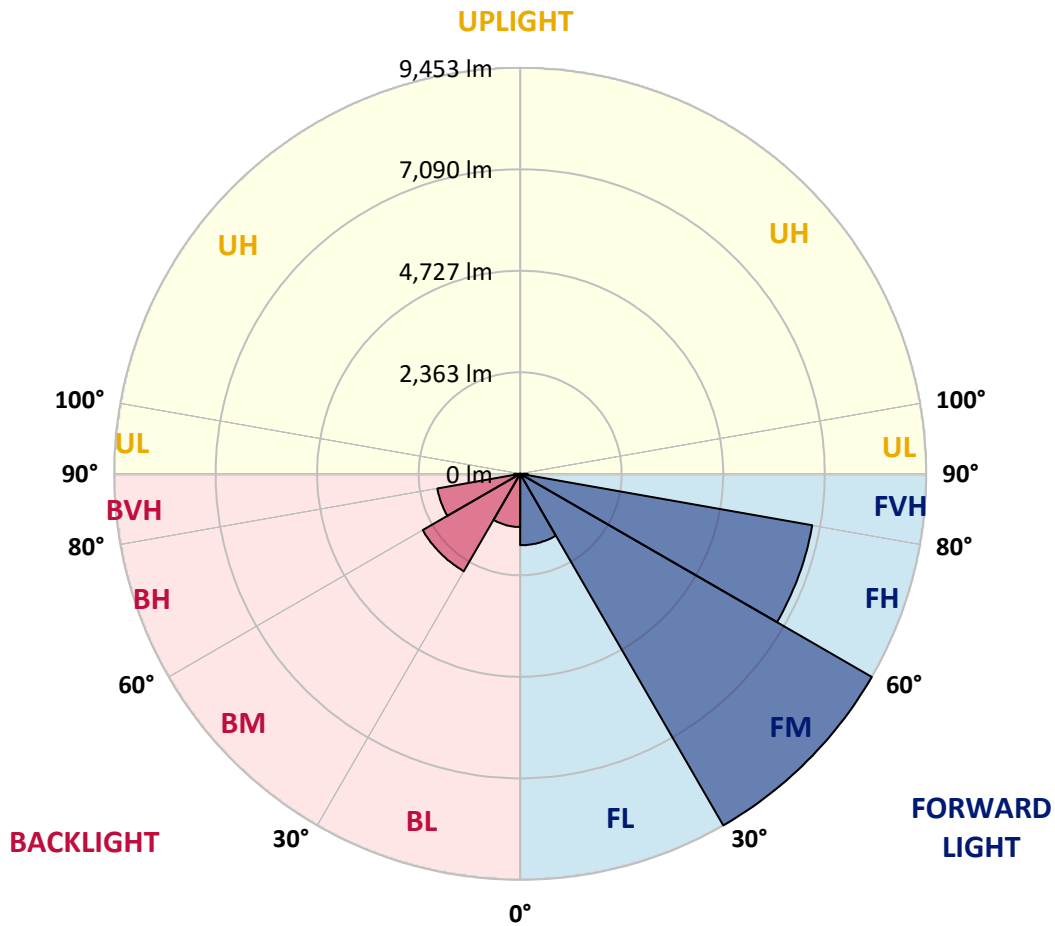
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.2	6.9			
FM (30°-60°)	9453.2	39.1			
FH (60°-80°)	6905.4	28.6			G3/7500
FVH (80°-90°)	176.8	0.7			G2/225
BL (0°-30°)	1238.7	5.1	B3/2500		
BM (30°-60°)	2619.7	10.8	B3/5000		
BH (60°-80°)	1956.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	139.0	0.6			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°	82°
0°	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1
2.5°	3625.7	3646.2	3639.8	3633.4	3633.4	3624.4	3623.2	3610.3	3600.1	3583.4
5°	3671.9	3693.6	3691.1	3696.2	3712.9	3716.7	3720.6	3712.9	3692.4	3671.9
7.5°	3630.8	3655.2	3662.9	3693.6	3744.9	3791.0	3825.7	3839.8	3820.5	3791.0
10°	3492.4	3519.3	3546.3	3619.3	3710.3	3819.2	3911.5	3966.6	3962.8	3934.6
12.5°	3211.8	3239.9	3297.6	3439.9	3606.5	3798.7	3970.5	4085.8	4125.6	4105.0
15°	2987.5	3011.8	3055.4	3201.5	3418.1	3710.3	3992.3	4216.5	4317.8	4306.3
17.5°	2981.1	2991.3	3018.2	3087.4	3254.0	3571.9	3969.2	4344.7	4538.2	4537.0
20°	3093.8	3097.7	3113.1	3127.2	3222.0	3466.8	3910.2	4451.1	4785.6	4785.6
22.5°	3250.2	3247.6	3263.0	3250.2	3296.3	3457.8	3873.1	4544.6	5061.1	5081.6
25°	3484.7	3471.9	3468.1	3438.6	3447.6	3541.1	3914.1	4651.0	5388.0	5430.2
27.5°	3797.5	3777.0	3762.9	3694.9	3671.9	3712.9	4039.7	4779.2	5751.9	5825.0
30°	4205.0	4167.8	4147.3	4029.4	3946.1	3952.5	4229.4	4949.6	6132.6	6250.5
32.5°	4761.2	4703.6	4648.5	4454.9	4302.4	4252.4	4474.2	5185.5	6545.3	6733.7
35°	5384.1	5338.0	5279.0	4980.4	4745.9	4630.5	4804.8	5514.8	7028.4	7327.1
37.5°	5983.9	5944.2	5972.4	5569.9	5267.5	5099.6	5238.0	5957.0	7624.4	8065.3
40°	6604.2	6573.5	6577.3	6192.8	5840.4	5652.0	5763.5	6511.9	8307.5	8943.2
42.5°	7278.4	7255.3	7178.4	6837.5	6441.5	6265.9	6368.4	7152.8	9040.6	9942.9
45°	8033.2	8019.1	7947.4	7556.5	7102.8	6905.4	7043.8	7860.2	9777.5	10883.6
47.5°	8685.6	8697.1	8688.1	8358.8	7888.4	7598.8	7764.1	8598.4	10463.2	11767.9
50°	8999.6	9059.8	9148.2	9045.7	8753.5	8458.7	8490.8	9311.0	11116.8	12597.1
52.5°	8835.5	8949.6	9190.5	9354.6	9467.4	9405.9	9320.0	10018.5	11732.0	13345.6
55°	8224.2	8384.4	8784.3	9180.3	9755.7	10203.0	10315.8	10802.8	12331.8	14004.3
57.5°	7110.5	7370.6	7729.5	8530.5	9499.4	10588.8	11477.0	11890.9	12967.5	14707.9
60°	5200.8	5549.4	5995.4	7187.4	8602.3	10382.4	12465.1	13562.2	13871.0	15619.2
62.5°	3328.4	3543.7	3953.8	5076.5	6702.9	9325.1	12767.6	15651.2	15402.6	17113.5
65°	2278.7	2417.1	2792.7	3423.2	4333.2	6941.3	11957.6	17217.4	17835.1	19482.0
67.5°	1655.9	1761.0	2081.4	2633.7	2823.4	4107.6	9279.0	17145.6	20199.7	21922.2
70°	1207.3	1281.6	1550.8	2081.4	2172.4	2285.1	5621.2	14574.6	20148.4	22570.7
72.5°	894.6	945.8	1126.5	1614.8	1758.4	1543.1	2782.4	10592.6	17313.5	20415.0
75°	647.2	685.7	819.0	1235.5	1407.2	1175.3	1388.0	6190.3	12076.8	14360.6
77.5°	494.7	524.2	611.3	904.8	1126.5	881.8	861.3	2847.8	5726.3	5754.5
80°	397.3	416.5	463.9	637.0	863.8	660.0	561.4	1149.6	1809.7	1531.5
82.5°	292.2	324.3	392.2	447.3	617.7	455.0	342.2	580.6	688.2	592.1
85°	166.6	188.4	237.1	320.4	394.7	278.1	196.1	257.6	320.4	262.7
87.5°	59.0	76.9	83.3	125.6	171.7	115.3	75.6	74.3	105.1	78.2
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°
3541.1	0°	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1	3541.1
3579.6	2.5°	3566.8	3560.4	3534.7	3500.1	3464.2	3429.6	3418.1	3393.7	3377.1	3368.1
3662.9	5°	3638.5	3618.0	3557.8	3480.9	3400.2	3313.0	3251.5	3195.1	3154.1	3115.6
3777.0	7.5°	3741.1	3705.2	3601.4	3466.8	3323.3	3178.4	3070.8	2988.8	2933.6	2897.8
3910.2	10°	3860.3	3805.1	3646.2	3445.0	3223.3	3015.7	2888.8	2818.3	2783.7	2764.5
4062.8	12.5°	3997.4	3919.2	3692.4	3395.0	3070.8	2833.7	2746.5	2726.0	2727.3	2728.6
4255.0	15°	4166.6	4057.6	3729.5	3286.1	2872.1	2694.0	2678.6	2711.9	2746.5	2763.2
4472.9	17.5°	4357.5	4203.7	3735.9	3106.7	2677.3	2604.3	2653.0	2724.7	2777.3	2800.4
4716.4	20°	4562.6	4352.4	3689.8	2852.9	2517.1	2531.2	2618.4	2710.6	2768.3	2797.8
4994.5	22.5°	4797.1	4511.3	3579.6	2586.3	2386.4	2451.7	2554.3	2644.0	2704.2	2733.7
5321.3	25°	5065.0	4689.5	3406.6	2362.0	2273.6	2362.0	2464.6	2538.9	2587.6	2614.5
5686.6	27.5°	5362.3	4875.3	3175.9	2183.9	2174.9	2269.8	2354.3	2412.0	2437.7	2458.2
6074.9	30°	5660.9	5044.5	2896.5	2049.3	2089.0	2178.8	2239.0	2264.6	2272.3	2276.2
6508.1	32.5°	5983.9	5190.6	2603.0	1937.8	2007.0	2090.3	2126.2	2137.8	2101.9	2077.5
7033.6	35°	6374.8	5346.9	2315.9	1849.4	1926.3	1998.1	2009.6	1999.3	1957.0	1907.1
7692.3	37.5°	6858.0	5541.7	2086.5	1786.6	1850.7	1898.1	1884.0	1881.4	1885.3	1826.3
8484.4	40°	7450.1	5795.5	1918.6	1737.9	1789.1	1799.4	1759.7	1781.5	1800.7	1711.0
9353.3	42.5°	8107.6	6101.8	1812.2	1704.6	1737.9	1713.5	1652.0	1676.4	1673.8	1555.9
10226.1	45°	8777.9	6435.0	1775.1	1680.2	1690.5	1641.8	1573.8	1580.2	1526.4	1420.0
11063.0	47.5°	9444.3	6792.6	1798.1	1659.7	1631.5	1576.4	1523.9	1495.7	1416.2	1336.7
11865.3	50°	10097.9	7168.1	1882.7	1618.7	1550.8	1518.7	1480.3	1430.3	1345.7	1277.8
12624.0	52.5°	10704.1	7546.2	1977.5	1550.8	1449.5	1468.7	1444.4	1386.7	1303.4	1234.2
13341.7	55°	11278.3	7924.3	2014.7	1457.2	1354.7	1425.2	1411.1	1304.7	1204.7	1148.3
14092.8	57.5°	11903.7	8379.3	1973.7	1338.0	1277.8	1375.2	1321.4	1203.4	1145.8	1103.5
15070.6	60°	12770.1	9093.1	1885.3	1190.6	1204.7	1300.9	1208.6	1159.9	1097.1	1049.7
16536.8	62.5°	14209.4	10424.7	1743.0	1044.5	1118.9	1190.6	1154.7	1106.0	1042.0	995.8
19043.7	65°	16336.9	12275.4	1475.2	930.5	1022.7	1083.0	1097.1	1048.4	981.7	933.0
21240.4	67.5°	18131.2	13436.6	1116.3	835.6	924.1	995.8	1035.6	988.1	917.6	870.2
21754.3	70°	18032.5	12593.3	852.3	742.1	836.9	910.0	961.2	924.1	848.4	803.6
19760.1	72.5°	16016.5	10535.0	689.5	647.2	748.5	820.2	881.8	853.6	776.7	733.1
14476.0	75°	11766.6	7478.3	551.1	551.1	638.2	726.7	794.6	776.7	706.2	675.4
6077.5	77.5°	4959.9	3137.4	431.9	457.5	530.6	624.2	708.7	715.1	653.6	692.1
1607.2	80°	1318.8	865.1	329.4	360.1	416.5	515.2	616.5	613.9	547.3	511.4
597.2	82.5°	502.4	340.9	234.5	253.8	301.2	394.7	488.3	503.7	437.0	378.1
234.5	85°	193.5	146.1	144.8	152.5	175.6	261.5	369.1	381.9	329.4	279.4
65.4	87.5°	50.0	43.6	53.8	51.3	80.7	139.7	211.5	219.2	201.2	116.6
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>
3541.1
3378.4
3131.0
2905.4
2769.6
2731.1
2761.9
2805.5
2805.5
2741.4
2622.2
2465.8
2285.1
2085.2
1909.6
1830.2
1713.5
1554.6
1423.9
1336.7
1272.7
1235.5
1143.2
1099.6
1047.1
995.8
935.6
871.5
807.4
733.1
666.4
628.0
475.5
378.1
288.4
166.6
0.0

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