

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: STREETWORKS

Report Number: P849846

Luminaire Tested: **GLAN-SB7A-827-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P849846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7A-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25202 lumens  
Efficiency: N/A  
Efficacy: 126.6 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

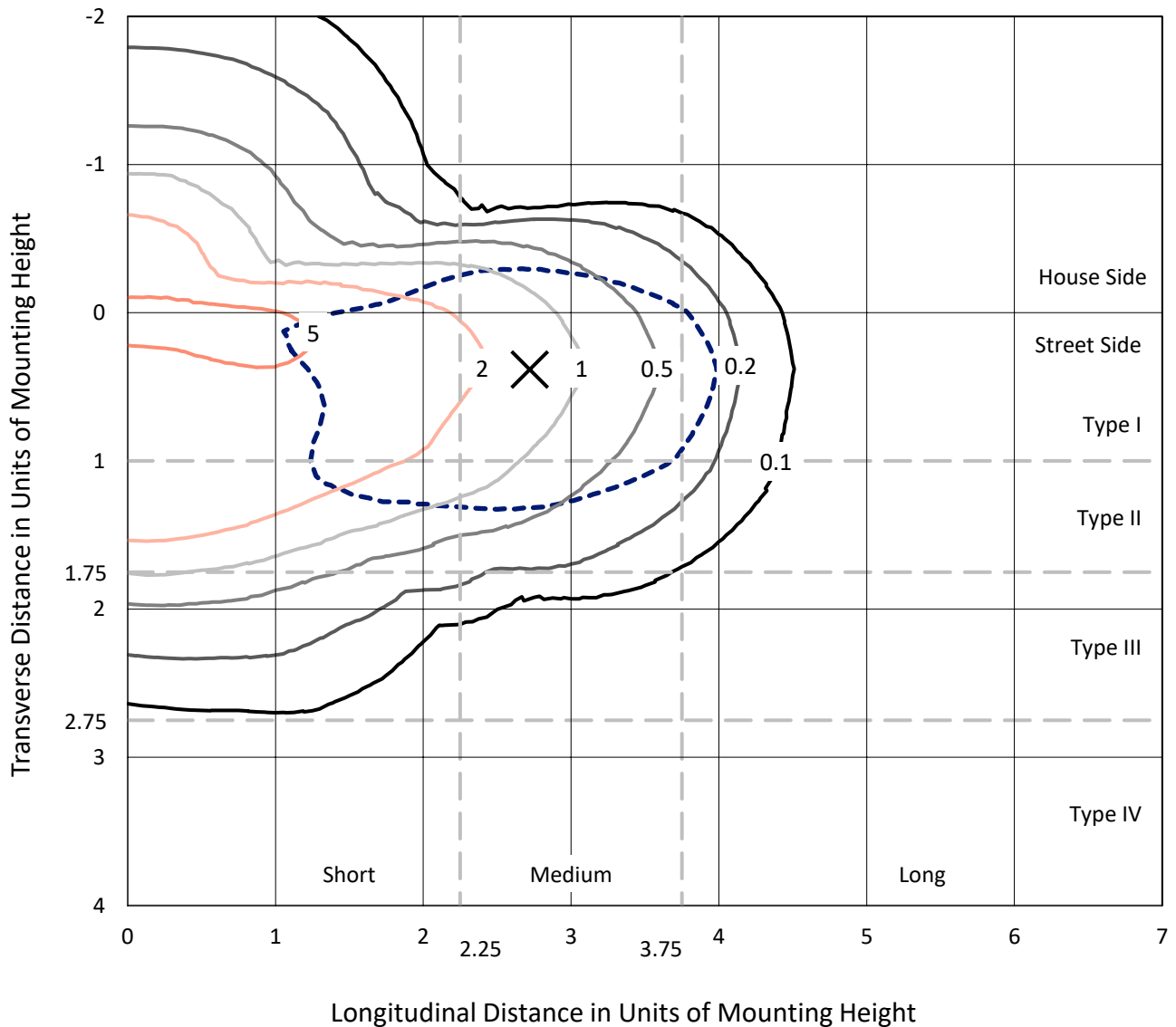
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

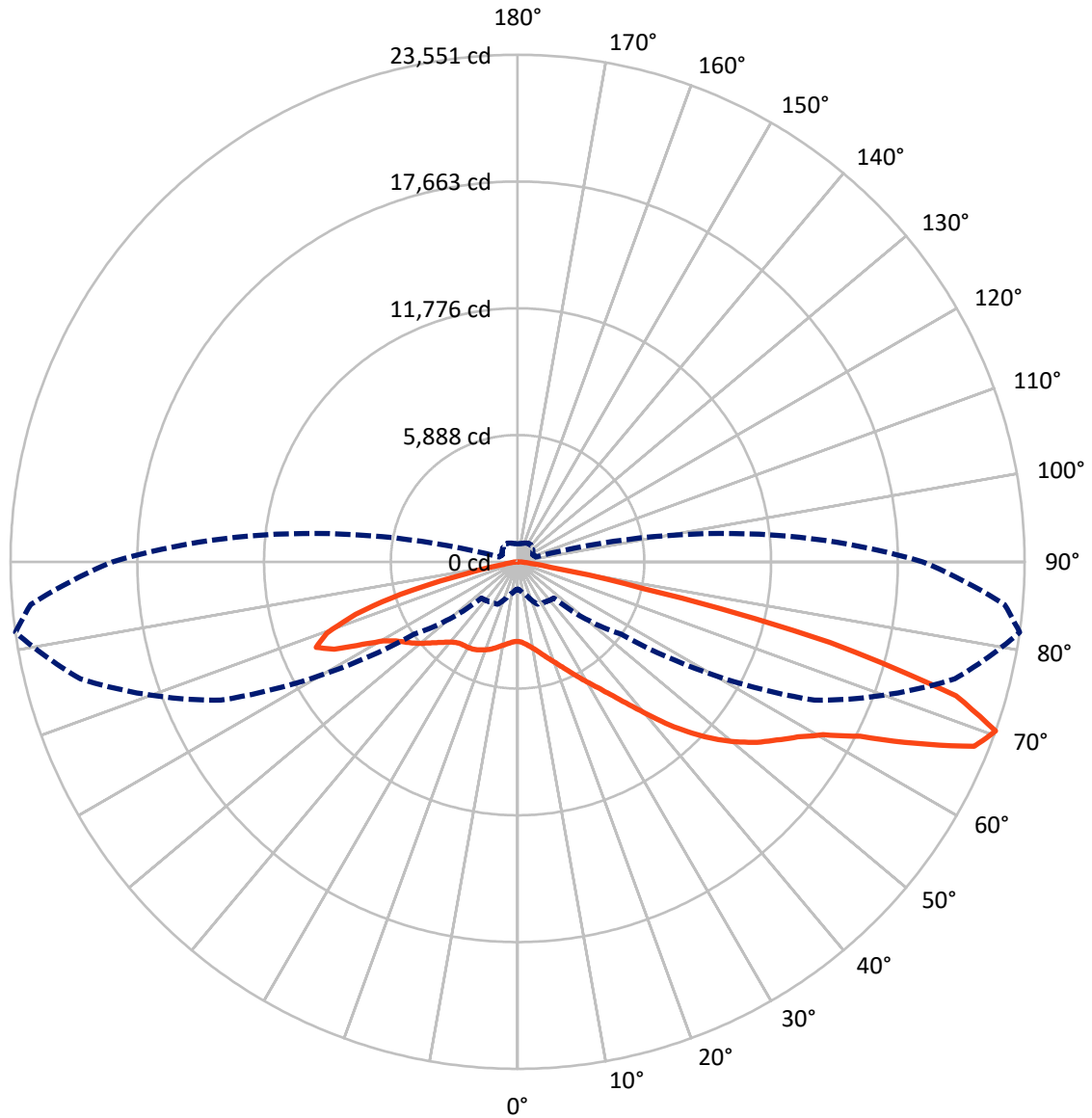
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6212.9	0.0	6212.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	18989.1	0.0	18989.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	25202.0	0.0	25202.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.9	1.4
10°-20°	1002.3	4.0
20°-30°	1676.8	6.7
30°-40°	2619.6	10.4
40°-50°	4171.9	16.6
50°-60°	5805.8	23.0
60°-70°	6073.1	24.1
70°-80°	3174.1	12.6
80°-90°	329.6	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°	25202.0	100.0
0°-180°	25202.0	100.0

**Coefficient of Utilization**



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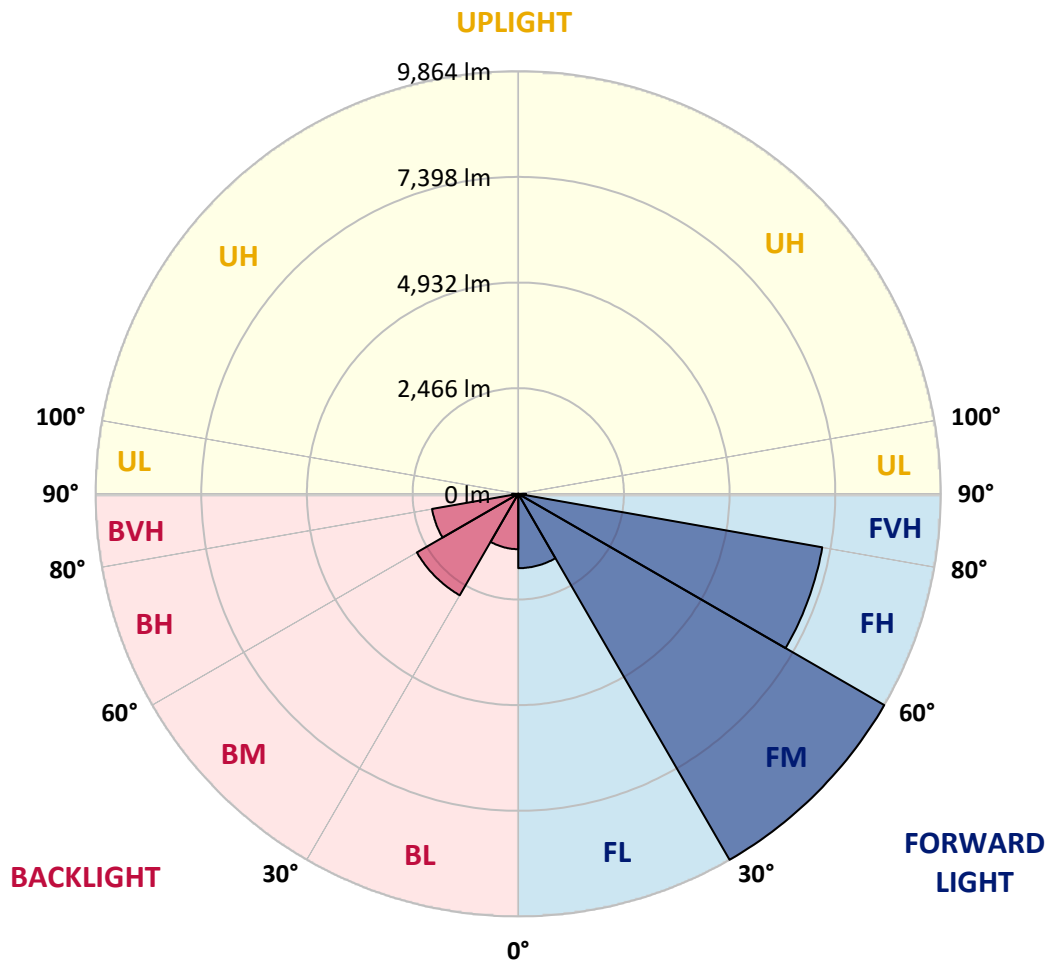
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.4	6.9			
FM (30°-60°)	9863.8	39.1			
FH (60°-80°)	7205.3	28.6			G3/7500
FVH (80°-90°)	184.5	0.7			G2/225
BL (0°-30°)	1292.5	5.1	B3/2500		
BM (30°-60°)	2733.4	10.8	B3/5000		
BH (60°-80°)	2041.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	145.1	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°	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9
2.5°	3783.2	3804.6	3797.9	3791.2	3791.2	3781.9	3780.5	3767.1	3756.4	3739.1
5°	3831.3	3854.1	3851.4	3856.7	3874.1	3878.1	3882.1	3874.1	3852.7	3831.3
7.5°	3788.5	3813.9	3822.0	3854.1	3907.6	3955.7	3991.8	4006.5	3986.5	3955.7
10°	3644.1	3672.2	3700.3	3776.5	3871.5	3985.1	4081.4	4138.9	4134.9	4105.5
12.5°	3351.2	3380.7	3440.8	3589.3	3763.1	3963.7	4142.9	4263.3	4304.7	4283.3
15°	3117.2	3142.6	3188.1	3340.5	3566.5	3871.5	4165.7	4399.7	4505.3	4493.3
17.5°	3110.5	3121.2	3149.3	3221.5	3395.4	3727.0	4141.6	4533.4	4735.3	4734.0
20°	3228.2	3232.2	3248.3	3263.0	3361.9	3617.4	4080.1	4644.4	4993.4	4993.4
22.5°	3391.4	3388.7	3404.7	3391.4	3439.5	3608.0	4041.3	4742.0	5281.0	5302.3
25°	3636.1	3622.7	3618.7	3587.9	3597.3	3694.9	4084.1	4853.0	5622.0	5666.1
27.5°	3962.4	3941.0	3926.3	3855.4	3831.3	3874.1	4215.1	4986.7	6001.8	6078.0
30°	4387.6	4348.9	4327.5	4204.4	4117.5	4124.2	4413.1	5164.6	6398.9	6522.0
32.5°	4968.0	4907.8	4850.3	4648.4	4489.3	4437.1	4668.5	5410.7	6829.5	7026.1
35°	5617.9	5569.8	5508.3	5196.7	4952.0	4831.6	5013.5	5754.4	7333.7	7645.3
37.5°	6243.8	6202.3	6231.8	5811.9	5496.3	5321.1	5465.5	6215.7	7955.5	8415.6
40°	6891.0	6859.0	6863.0	6461.8	6094.0	5897.4	6013.8	6794.8	8668.3	9331.6
42.5°	7594.5	7570.4	7490.2	7134.4	6721.2	6538.0	6645.0	7463.4	9433.2	10374.7
45°	8382.1	8367.4	8292.5	7884.7	7411.3	7205.3	7349.7	8201.6	10202.2	11356.3
47.5°	9062.8	9074.8	9065.5	8721.8	8231.0	7928.8	8101.3	8971.9	10917.6	12279.0
50°	9390.4	9453.3	9545.6	9438.6	9133.7	8826.1	8859.5	9715.4	11599.6	13144.2
52.5°	9219.3	9338.3	9589.7	9760.9	9878.6	9814.4	9724.8	10453.6	12241.5	13925.2
55°	8581.4	8748.5	9165.8	9579.0	10179.4	10646.2	10763.8	11272.0	12867.4	14612.6
57.5°	7419.3	7690.7	8065.2	8901.0	9912.0	11048.7	11975.4	12407.4	13530.7	15346.7
60°	5426.7	5790.5	6255.8	7499.5	8975.9	10833.4	13006.5	14151.2	14473.5	16297.5
62.5°	3472.9	3697.6	4125.5	5297.0	6994.0	9730.1	13322.1	16331.0	16071.5	17856.8
65°	2377.7	2522.1	2914.0	3571.9	4521.4	7242.8	12476.9	17965.1	18609.7	20328.1
67.5°	1727.8	1837.4	2171.8	2748.1	2946.0	4286.0	9682.0	17890.2	21077.0	22874.3
70°	1259.7	1337.3	1618.1	2171.8	2266.7	2384.4	5865.3	15207.6	21023.5	23551.0
72.5°	933.4	986.9	1175.5	1685.0	1834.8	1610.1	2903.3	11052.7	18065.4	21301.7
75°	675.3	715.4	854.5	1289.1	1468.3	1226.3	1448.3	6459.1	12601.3	14984.3
77.5°	516.2	547.0	637.9	944.1	1175.5	920.1	898.7	2971.5	5975.0	6004.4
80°	414.6	434.6	484.1	664.6	901.3	688.7	585.7	1199.5	1888.3	1598.1
82.5°	304.9	338.3	409.2	466.7	644.6	474.7	357.1	605.8	718.1	617.8
85°	173.8	196.6	247.4	334.3	411.9	290.2	204.6	268.8	334.3	274.1
87.5°	61.5	80.2	86.9	131.1	179.2	120.4	78.9	77.6	109.7	81.6
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°
3694.9	0°	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9	3694.9
3735.0	2.5°	3721.7	3715.0	3688.2	3652.1	3614.7	3578.6	3566.5	3541.1	3523.8	3514.4
3822.0	5°	3796.6	3775.2	3712.3	3632.1	3547.8	3456.9	3392.7	3333.9	3291.1	3250.9
3941.0	7.5°	3903.5	3866.1	3757.8	3617.4	3467.6	3316.5	3204.1	3118.6	3061.1	3023.6
4080.1	10°	4027.9	3970.4	3804.6	3594.6	3363.3	3146.6	3014.2	2940.7	2904.6	2884.5
4239.2	12.5°	4171.0	4089.4	3852.7	3542.5	3204.1	2956.7	2865.8	2844.4	2845.8	2847.1
4439.8	15°	4347.5	4233.9	3891.5	3428.8	2996.9	2811.0	2794.9	2829.7	2865.8	2883.2
4667.1	17.5°	4546.8	4386.3	3898.2	3241.6	2793.6	2717.4	2768.2	2843.1	2897.9	2922.0
4921.2	20°	4760.7	4541.4	3850.1	2976.8	2626.4	2641.1	2732.1	2828.4	2888.5	2919.3
5211.4	22.5°	5005.5	4707.3	3735.0	2698.6	2490.0	2558.2	2665.2	2758.8	2821.7	2852.4
5552.4	25°	5285.0	4893.1	3554.5	2464.6	2372.3	2464.6	2571.6	2649.2	2700.0	2728.1
5933.5	27.5°	5595.2	5087.0	3313.8	2278.7	2269.4	2368.3	2456.6	2516.8	2543.5	2564.9
6338.7	30°	5906.8	5263.6	3022.3	2138.3	2179.8	2273.4	2336.2	2363.0	2371.0	2375.0
6790.8	32.5°	6243.8	5416.0	2716.0	2022.0	2094.2	2181.1	2218.6	2230.6	2193.2	2167.7
7339.0	35°	6651.7	5579.2	2416.5	1929.7	2009.9	2084.8	2096.9	2086.2	2042.0	1989.9
8026.4	37.5°	7155.8	5782.4	2177.1	1864.2	1931.0	1980.5	1965.8	1963.1	1967.2	1905.6
8852.9	40°	7773.7	6047.2	2001.9	1813.4	1866.9	1877.6	1836.1	1858.8	1878.9	1785.3
9759.5	42.5°	8459.7	6366.8	1890.9	1778.6	1813.4	1788.0	1723.8	1749.2	1746.5	1623.5
10670.2	45°	9159.1	6714.5	1852.1	1753.2	1763.9	1713.1	1642.2	1648.9	1592.7	1481.7
11543.5	47.5°	9854.5	7087.6	1876.2	1731.8	1702.4	1644.9	1590.0	1560.6	1477.7	1394.8
12380.6	50°	10536.5	7479.5	1964.5	1689.0	1618.1	1584.7	1544.6	1492.4	1404.2	1333.3
13172.3	52.5°	11169.0	7874.0	2063.4	1618.1	1512.5	1532.5	1507.1	1446.9	1360.0	1287.8
13921.2	55°	11768.1	8268.5	2102.2	1520.5	1413.5	1487.1	1472.4	1361.4	1257.1	1198.2
14704.8	57.5°	12420.7	8743.2	2059.4	1396.1	1333.3	1434.9	1378.7	1255.7	1195.5	1151.4
15725.2	60°	13324.7	9488.1	1967.2	1242.3	1257.1	1357.3	1261.1	1210.2	1144.7	1095.2
17255.0	62.5°	14826.5	10877.5	1818.7	1089.9	1167.5	1242.3	1204.9	1154.1	1087.2	1039.1
19870.8	65°	17046.4	12808.5	1539.2	970.9	1067.2	1130.0	1144.7	1093.9	1024.4	973.5
22162.9	67.5°	18918.6	14020.1	1164.8	871.9	964.2	1039.1	1080.5	1031.0	957.5	908.0
22699.1	70°	18815.7	13140.2	889.3	774.3	873.2	949.5	1003.0	964.2	885.3	838.5
20618.3	72.5°	16712.1	10992.5	719.5	675.3	781.0	855.9	920.1	890.6	810.4	764.9
15104.7	75°	12277.6	7803.1	575.0	575.0	666.0	758.2	829.1	810.4	736.8	704.8
6341.4	77.5°	5175.3	3273.7	450.7	477.4	553.6	651.3	739.5	746.2	682.0	722.1
1677.0	80°	1376.1	902.7	343.7	375.8	434.6	537.6	643.2	640.6	571.0	533.6
623.2	82.5°	524.2	355.7	244.7	264.8	314.3	411.9	509.5	525.6	456.0	394.5
244.7	85°	201.9	152.5	151.1	159.1	183.2	272.8	385.1	398.5	343.7	291.5
68.2	87.5°	52.2	45.5	56.2	53.5	84.2	145.8	220.7	228.7	210.0	121.7
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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180°
3694.9
3525.1
3267.0
3031.6
2889.9
2849.8
2881.9
2927.3
2927.3
2860.5
2736.1
2572.9
2384.4
2175.8
1992.6
1909.6
1788.0
1622.1
1485.7
1394.8
1327.9
1289.1
1192.9
1147.4
1092.6
1039.1
976.2
909.4
842.5
764.9
695.4
655.3
496.1
394.5
300.9
173.8
0.0

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