

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: P849876

Luminaire Tested: **GLAN-SB7A-840-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P849876  
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-840-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28110 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

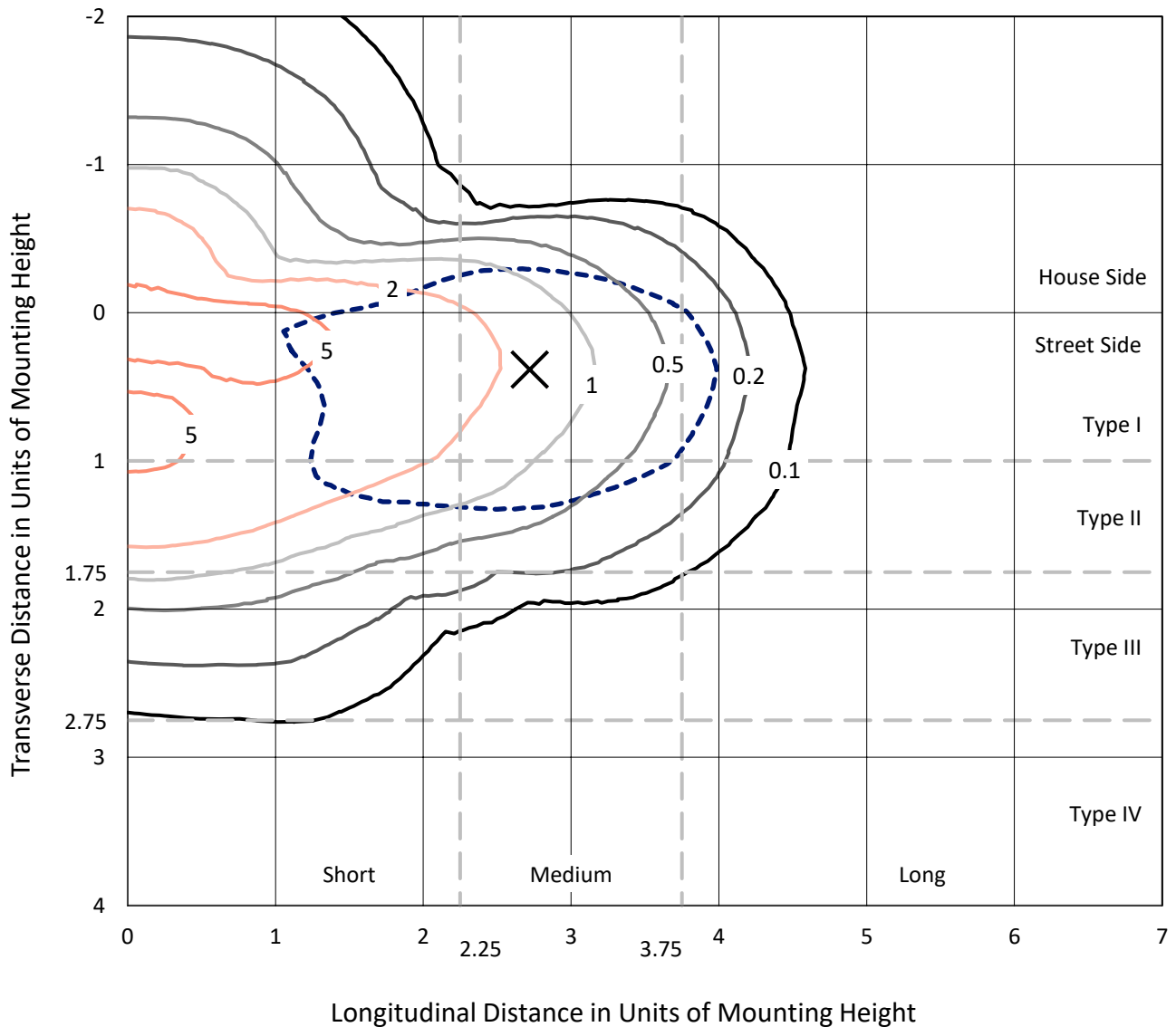
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

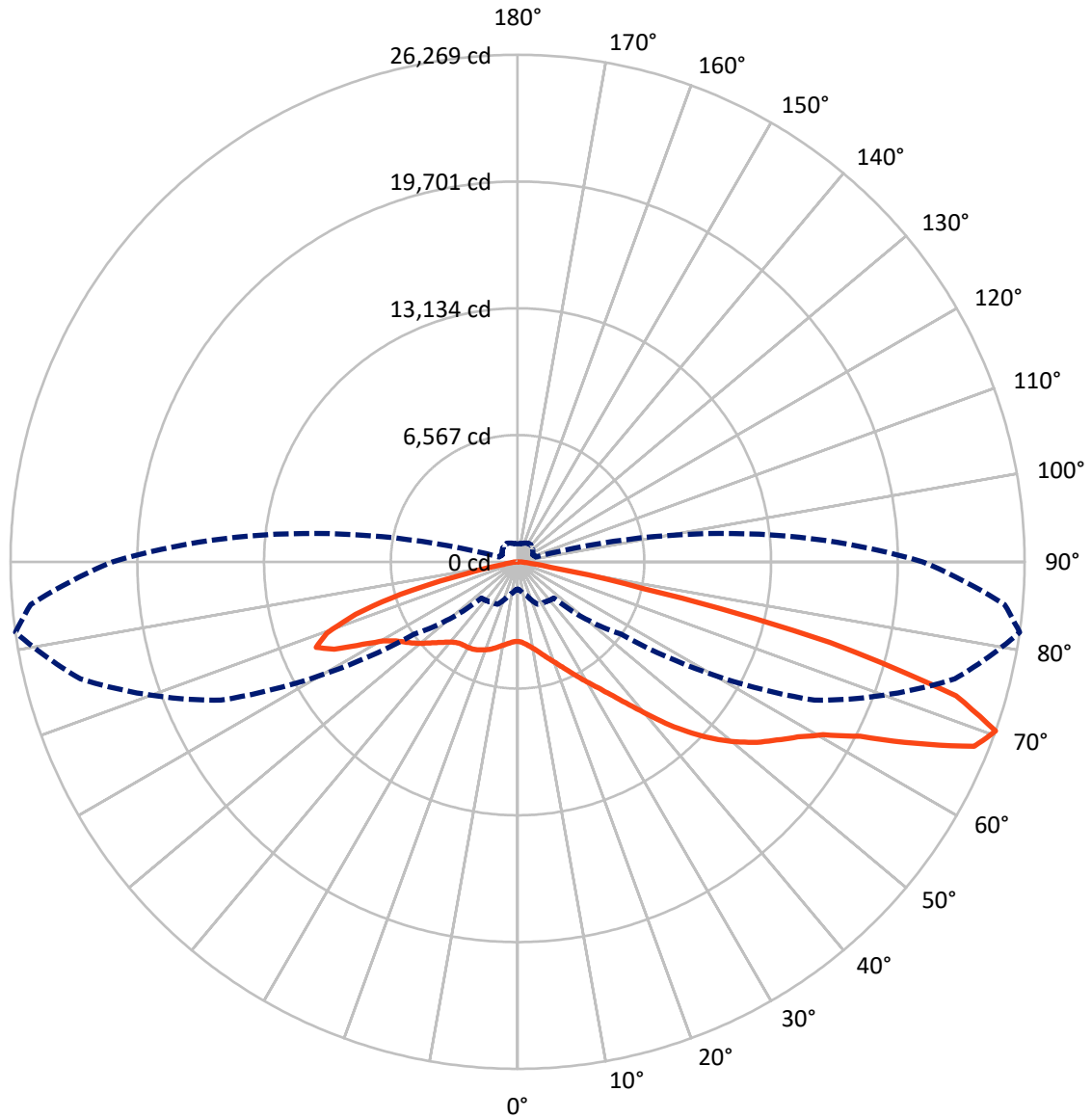
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	6929.8	0.0	6929.8
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	21180.2	0.0	21180.2
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	28110.0	0.0	28110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.1	1.4
10°-20°	1118.0	4.0
20°-30°	1870.3	6.7
30°-40°	2921.8	10.4
40°-50°	4653.3	16.6
50°-60°	6475.7	23.0
60°-70°	6773.8	24.1
70°-80°	3540.4	12.6
80°-90°	367.6	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°	28110.0	100.0
0°-180°	28110.0	100.0

**Coefficient of Utilization**



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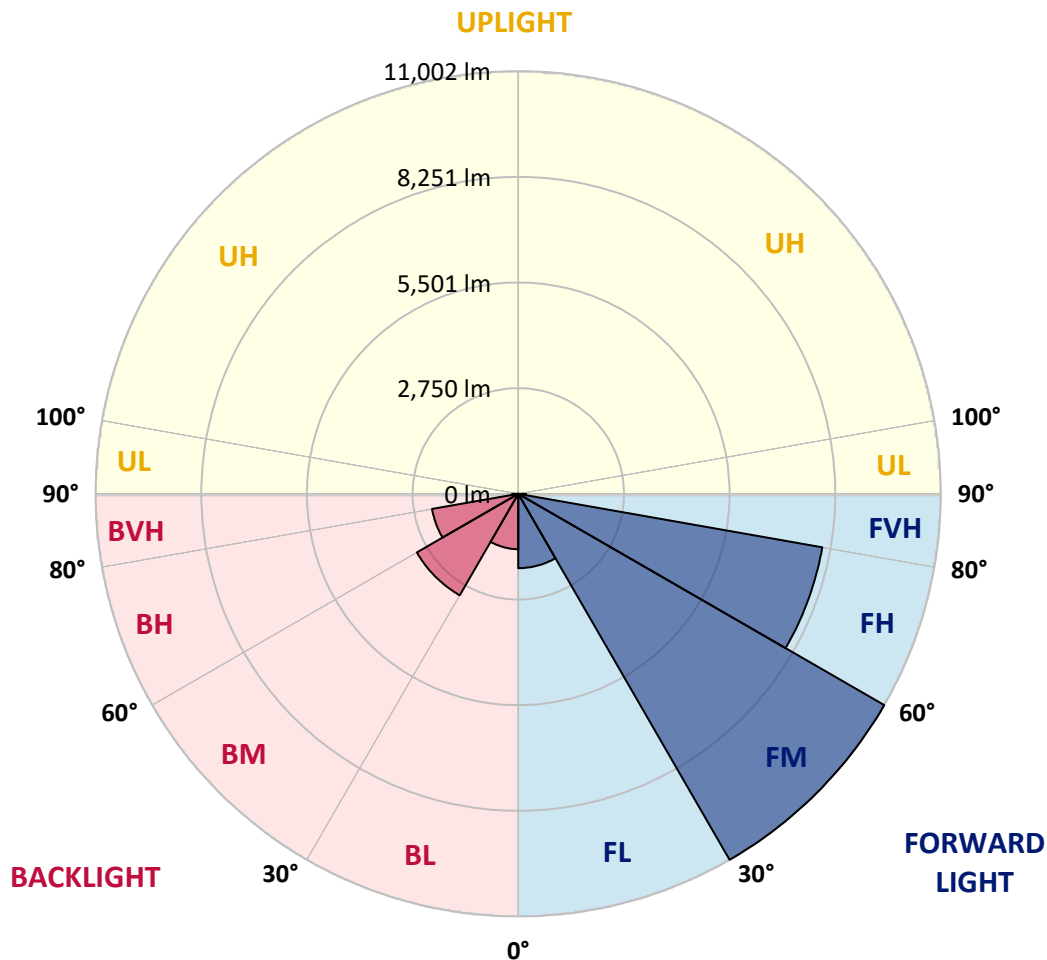
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.7	6.9			
FM (30°-60°)	11002.0	39.1			
FH (60°-80°)	8036.7	28.6			G4/12000
FVH (80°-90°)	205.8	0.7			G2/225
BL (0°-30°)	1441.7	5.1	B3/2500		
BM (30°-60°)	3048.8	10.8	B3/5000		
BH (60°-80°)	2277.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	161.8	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3
2.5°	4219.7	4243.6	4236.1	4228.7	4228.7	4218.2	4216.7	4201.8	4189.9	4170.5
5°	4273.4	4298.8	4295.8	4301.8	4321.2	4325.6	4330.1	4321.2	4297.3	4273.4
7.5°	4225.7	4254.0	4263.0	4298.8	4358.4	4412.1	4452.4	4468.8	4446.4	4412.1
10°	4064.6	4095.9	4127.2	4212.3	4318.2	4445.0	4552.3	4616.5	4612.0	4579.2
12.5°	3737.9	3770.8	3837.9	4003.4	4197.3	4421.1	4621.0	4755.2	4801.4	4777.6
15°	3476.9	3505.2	3556.0	3726.0	3978.1	4318.2	4646.3	4907.3	5025.2	5011.8
17.5°	3469.5	3481.4	3512.7	3593.3	3787.2	4157.1	4619.5	5056.5	5281.7	5280.2
20°	3600.7	3605.2	3623.1	3639.5	3749.9	4034.8	4550.9	5180.3	5569.6	5569.6
22.5°	3782.7	3779.7	3797.6	3782.7	3836.4	4024.3	4507.6	5289.2	5890.3	5914.2
25°	4055.6	4040.7	4036.3	4001.9	4012.4	4121.3	4555.3	5413.0	6270.7	6319.9
27.5°	4419.6	4395.7	4379.3	4300.3	4273.4	4321.2	4701.5	5562.2	6694.3	6779.3
30°	4893.9	4850.7	4826.8	4689.6	4592.6	4600.1	4922.3	5760.5	7137.3	7274.5
32.5°	5541.3	5474.2	5410.0	5184.8	5007.3	4949.1	5207.2	6035.0	7617.6	7836.8
35°	6266.2	6212.5	6143.9	5796.3	5523.4	5389.1	5592.0	6418.3	8179.9	8527.4
37.5°	6964.3	6918.0	6950.8	6482.5	6130.5	5935.1	6096.1	6932.9	8873.5	9386.6
40°	7686.2	7650.4	7654.9	7207.4	6797.2	6577.9	6707.7	7578.8	9668.5	10408.4
42.5°	8470.8	8443.9	8354.4	7957.7	7496.8	7292.4	7411.7	8324.6	10521.7	11571.8
45°	9349.3	9332.9	9249.4	8794.4	8266.4	8036.7	8197.8	9148.0	11379.4	12666.6
47.5°	10108.5	10122.0	10111.5	9728.2	9180.8	8843.7	9036.1	10007.1	12177.4	13695.8
50°	10474.0	10544.1	10647.0	10527.7	10187.6	9844.5	9881.8	10836.4	12938.1	14660.9
52.5°	10283.1	10415.8	10696.2	10887.2	11018.4	10946.8	10846.9	11659.8	13654.1	15532.0
55°	9571.6	9758.0	10223.4	10684.3	11354.0	11874.6	12005.8	12572.7	14352.1	16298.7
57.5°	8275.4	8578.2	8995.8	9928.1	11055.7	12323.6	13357.2	13839.0	15092.0	17117.5
60°	6052.9	6458.6	6977.7	8364.9	10011.6	12083.4	14507.3	15784.1	16143.5	18178.1
62.5°	3873.7	4124.3	4601.6	5908.2	7801.0	10852.8	14859.3	18215.4	17926.0	19917.3
65°	2652.1	2813.1	3250.2	3984.1	5043.1	8078.5	13916.6	20038.1	20757.0	22673.7
67.5°	1927.1	2049.5	2422.4	3065.2	3286.0	4780.6	10799.1	19954.6	23509.0	25513.7
70°	1405.1	1491.6	1804.8	2422.4	2528.3	2659.5	6542.1	16962.4	23449.4	26268.5
72.5°	1041.1	1100.8	1311.1	1879.4	2046.5	1795.9	3238.3	12328.0	20150.0	23759.6
75°	753.3	798.0	953.1	1437.9	1637.8	1367.8	1615.4	7204.4	14055.3	16713.3
77.5°	575.8	610.1	711.5	1053.1	1311.1	1026.2	1002.4	3314.3	6664.4	6697.3
80°	462.4	484.8	540.0	741.3	1005.3	768.2	653.3	1338.0	2106.1	1782.5
82.5°	340.1	377.4	456.4	520.6	718.9	529.5	398.3	675.7	801.0	689.1
85°	193.9	219.3	275.9	372.9	459.4	323.7	228.2	299.8	372.9	305.8
87.5°	68.6	89.5	97.0	146.2	199.9	134.2	88.0	86.5	122.3	91.0
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°
4121.3	0°	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3	4121.3
4166.0	2.5°	4151.1	4143.7	4113.8	4073.5	4031.8	3991.5	3978.1	3949.7	3930.4	3919.9
4263.0	5°	4234.6	4210.8	4140.7	4051.2	3957.2	3855.8	3784.2	3718.5	3670.8	3626.1
4395.7	7.5°	4354.0	4312.2	4191.4	4034.8	3867.7	3699.2	3573.9	3478.4	3414.3	3372.5
4550.9	10°	4492.7	4428.5	4243.6	4009.4	3751.4	3509.7	3362.1	3280.0	3239.7	3217.4
4728.4	12.5°	4652.3	4561.3	4297.3	3951.2	3573.9	3297.9	3196.5	3172.6	3174.1	3175.6
4952.1	15°	4849.2	4722.4	4340.5	3824.5	3342.7	3135.3	3117.4	3156.2	3196.5	3215.9
5205.7	17.5°	5071.4	4892.4	4348.0	3615.6	3115.9	3030.9	3087.6	3171.1	3232.3	3259.1
5489.1	20°	5310.1	5065.5	4294.3	3320.3	2929.5	2945.9	3047.3	3154.7	3221.8	3256.2
5812.7	22.5°	5583.0	5250.4	4166.0	3010.0	2777.4	2853.4	2972.7	3077.2	3147.3	3181.6
6193.1	25°	5894.8	5457.7	3964.7	2749.0	2646.1	2749.0	2868.3	2954.9	3011.5	3042.9
6618.2	27.5°	6240.8	5674.0	3696.2	2541.7	2531.2	2641.6	2740.1	2807.2	2837.0	2860.9
7070.2	30°	6588.4	5870.9	3371.0	2385.1	2431.3	2535.7	2605.8	2635.6	2644.6	2649.1
7574.3	32.5°	6964.3	6041.0	3029.4	2255.3	2335.8	2432.8	2474.6	2488.0	2446.2	2417.9
8185.9	35°	7419.2	6222.9	2695.3	2152.4	2241.9	2325.4	2338.8	2326.9	2277.7	2219.5
8952.6	37.5°	7981.5	6449.7	2428.3	2079.3	2153.9	2209.1	2192.6	2189.7	2194.1	2125.5
9874.4	40°	8670.6	6745.0	2232.9	2022.6	2082.3	2094.2	2048.0	2073.3	2095.7	1991.3
10885.7	42.5°	9435.8	7101.5	2109.1	1983.8	2022.6	1994.3	1922.7	1951.0	1948.0	1810.8
11901.4	45°	10215.9	7489.3	2065.9	1955.5	1967.4	1910.7	1831.7	1839.1	1776.5	1652.7
12875.4	47.5°	10991.6	7905.5	2092.7	1931.6	1898.8	1834.7	1773.5	1740.7	1648.2	1555.7
13809.2	50°	11752.3	8342.5	2191.2	1883.9	1804.8	1767.5	1722.8	1664.6	1566.2	1487.1
14692.2	52.5°	12457.8	8782.5	2301.5	1804.8	1687.0	1709.4	1681.0	1613.9	1517.0	1436.4
15527.5	55°	13126.0	9222.5	2344.8	1695.9	1576.6	1658.7	1642.2	1518.4	1402.1	1336.5
16401.6	57.5°	13853.9	9752.0	2297.1	1557.2	1487.1	1600.5	1537.8	1400.6	1333.5	1284.3
17539.7	60°	14862.3	10582.9	2194.1	1385.7	1402.1	1514.0	1406.6	1349.9	1276.8	1221.6
19246.1	62.5°	16537.3	12132.6	2028.6	1215.7	1302.2	1385.7	1343.9	1287.2	1212.7	1159.0
22163.6	65°	19013.4	14286.5	1716.8	1082.9	1190.3	1260.4	1276.8	1220.1	1142.6	1085.9
24720.2	67.5°	21101.6	15637.9	1299.2	972.5	1075.4	1159.0	1205.2	1150.0	1068.0	1012.8
25318.3	70°	20986.7	14656.4	991.9	863.6	974.0	1059.0	1118.7	1075.4	987.4	935.2
22997.4	72.5°	18640.5	12260.9	802.5	753.3	871.1	954.6	1026.2	993.4	903.9	853.2
16847.6	75°	13694.3	8703.5	641.4	641.4	742.8	845.7	924.8	903.9	821.9	786.1
7073.1	77.5°	5772.5	3651.4	502.7	532.5	617.5	726.4	824.9	832.3	760.7	805.5
1870.5	80°	1534.9	1006.8	383.3	419.1	484.8	599.6	717.5	714.5	636.9	595.1
695.1	82.5°	584.7	396.8	273.0	295.3	350.5	459.4	568.3	586.2	508.6	440.0
273.0	85°	225.2	170.0	168.6	177.5	204.3	304.3	429.6	444.5	383.3	325.2
76.1	87.5°	58.2	50.7	62.6	59.7	94.0	162.6	246.1	255.1	234.2	135.7
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°
4121.3
3931.8
3644.0
3381.4
3223.3
3178.6
3214.4
3265.1
3265.1
3190.5
3051.8
2869.8
2659.5
2426.8
2222.5
2130.0
1994.3
1809.3
1657.2
1555.7
1481.2
1437.9
1330.5
1279.8
1218.6
1159.0
1088.9
1014.3
939.7
853.2
775.6
730.9
553.4
440.0
335.6
193.9
0.0

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