

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: P850016

Luminaire Tested: **GLAN-SB7B-827-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P850016  
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-SB7B-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31637 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

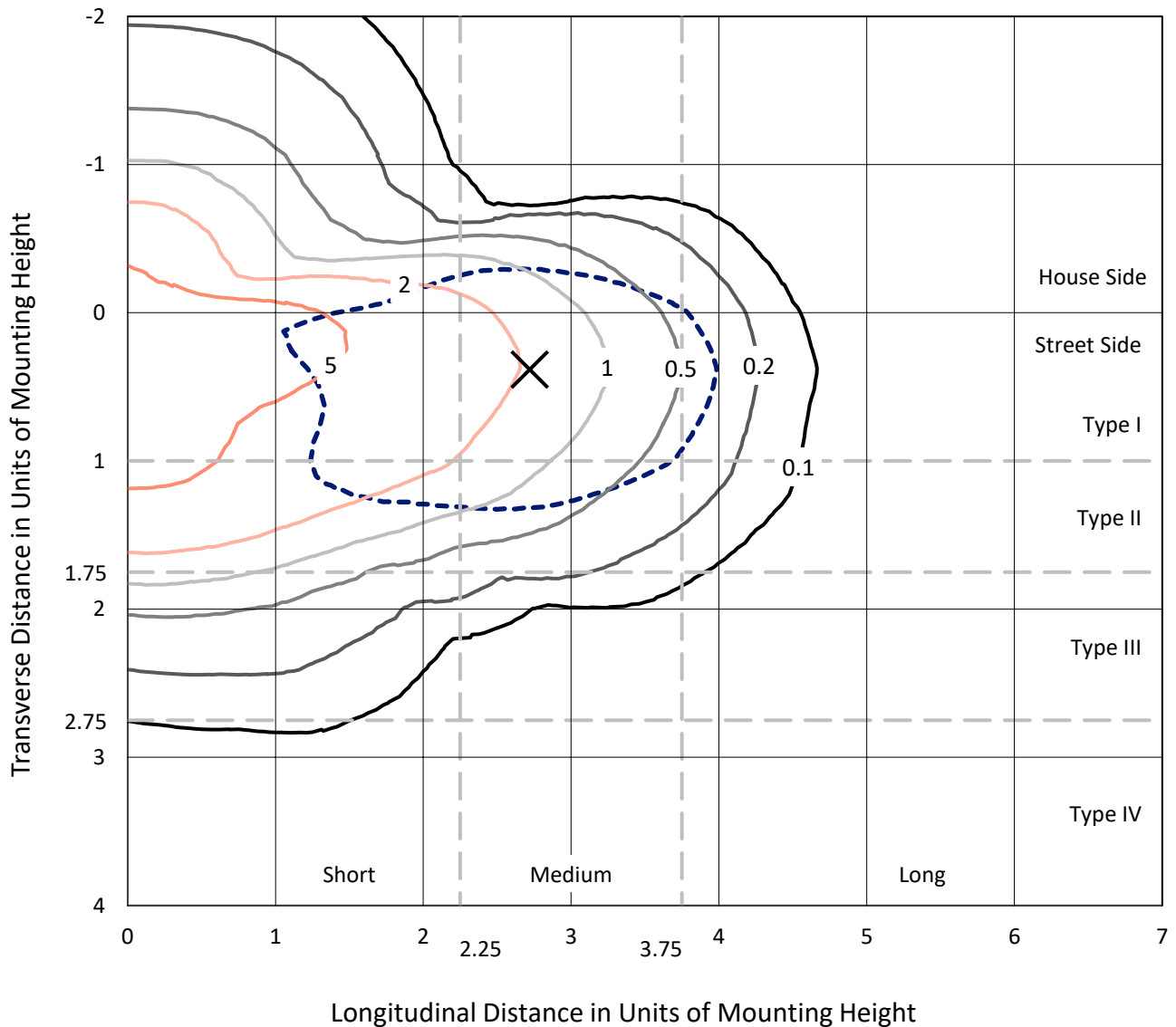
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

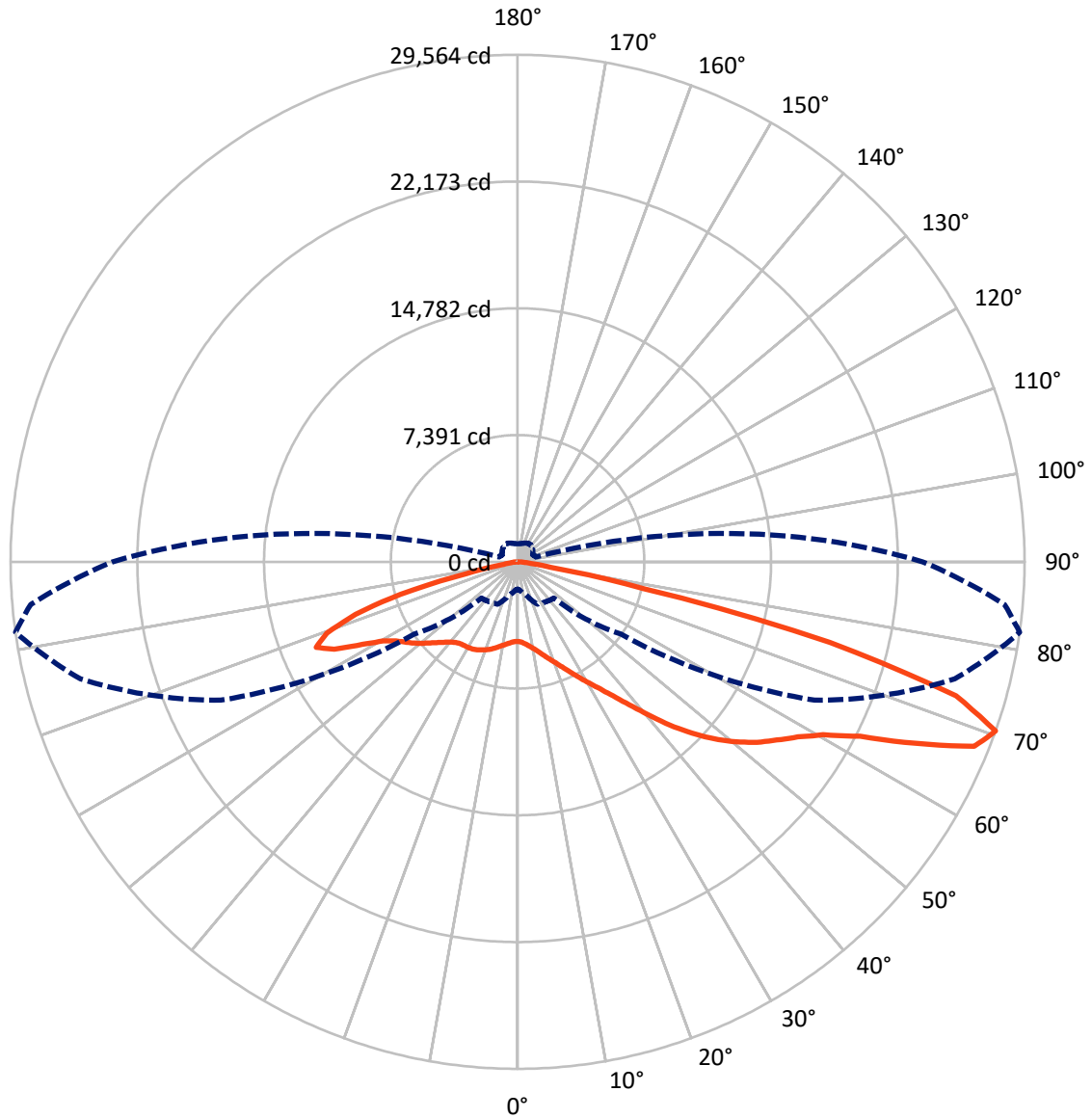
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	7799.3	0.0	7799.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	23837.7	0.0	23837.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	31637.0	0.0	31637.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.9	1.4
10°-20°	1258.2	4.0
20°-30°	2104.9	6.7
30°-40°	3288.4	10.4
40°-50°	5237.2	16.6
50°-60°	7288.2	23.0
60°-70°	7623.8	24.1
70°-80°	3984.6	12.6
80°-90°	413.8	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°	31637.0	100.0
0°-180°	31637.0	100.0

**Coefficient of Utilization**

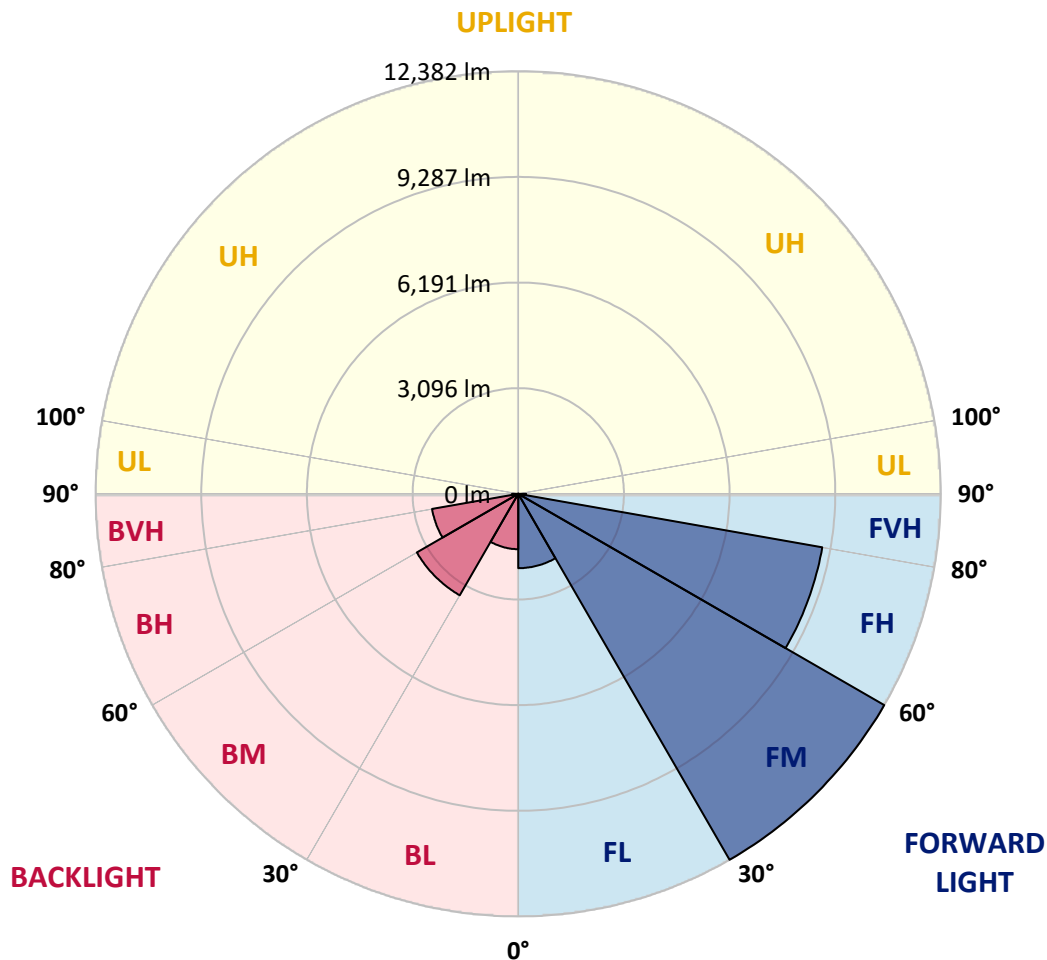


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.6	6.9			
FM (30°-60°)	12382.4	39.1			
FH (60°-80°)	9045.1	28.6			G4/12000
FVH (80°-90°)	231.6	0.7			G3/500
BL (0°-30°)	1622.5	5.1	B3/2500		
BM (30°-60°)	3431.4	10.8	B3/5000		
BH (60°-80°)	2563.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	182.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4
2.5°	4749.2	4776.0	4767.6	4759.2	4759.2	4747.5	4745.8	4729.0	4715.6	4693.8
5°	4809.6	4838.2	4834.8	4841.5	4863.3	4868.4	4873.4	4863.3	4836.5	4809.6
7.5°	4755.9	4787.8	4797.9	4838.2	4905.3	4965.7	5011.1	5029.5	5004.3	4965.7
10°	4574.6	4609.8	4645.1	4740.8	4860.0	5002.7	5123.5	5195.7	5190.7	5153.8
12.5°	4206.9	4243.9	4319.4	4505.8	4724.0	4975.8	5200.8	5351.8	5403.9	5377.0
15°	3913.2	3945.1	4002.1	4193.5	4477.2	4860.0	5229.3	5523.1	5655.7	5640.6
17.5°	3904.8	3918.2	3953.5	4044.1	4262.3	4678.7	5199.1	5691.0	5944.4	5942.8
20°	4052.5	4057.5	4077.7	4096.1	4220.4	4541.0	5121.9	5830.3	6268.4	6268.4
22.5°	4257.3	4253.9	4274.1	4257.3	4317.7	4529.3	5073.2	5952.8	6629.4	6656.2
25°	4564.5	4547.7	4542.7	4504.1	4515.8	4638.4	5126.9	6092.2	7057.5	7112.9
27.5°	4974.1	4947.3	4928.8	4839.8	4809.6	4863.3	5291.4	6260.1	7534.2	7629.9
30°	5508.0	5459.3	5432.4	5278.0	5168.9	5177.3	5539.9	6483.3	8032.8	8187.3
32.5°	6236.5	6161.0	6088.8	5835.3	5635.6	5570.1	5860.5	6792.2	8573.4	8820.1
35°	7052.4	6992.0	6914.8	6523.6	6216.4	6065.3	6293.6	7223.7	9206.3	9597.4
37.5°	7838.1	7786.0	7823.0	7295.8	6899.7	6679.7	6861.0	7802.8	9986.9	10564.4
40°	8650.6	8610.3	8615.3	8111.7	7650.1	7403.3	7549.3	8529.7	10881.6	11714.3
42.5°	9533.6	9503.4	9402.7	8956.1	8437.4	8207.4	8341.7	9369.1	11841.9	13023.7
45°	10522.4	10503.9	10409.9	9897.9	9303.6	9045.1	9226.4	10295.8	12807.2	14255.9
47.5°	11376.9	11392.0	11380.2	10948.8	10332.7	9953.3	10169.9	11262.7	13705.3	15414.3
50°	11788.2	11867.1	11982.9	11848.6	11465.8	11079.7	11121.7	12196.1	14561.5	16500.4
52.5°	11573.3	11722.7	12038.3	12253.2	12400.9	12320.3	12207.9	13122.8	15367.3	17480.8
55°	10772.5	10982.4	11506.1	12024.9	12778.6	13364.5	13512.2	14150.2	16152.9	18343.7
57.5°	9313.7	9654.5	10124.5	11173.7	12442.9	13869.8	15033.2	15575.4	16985.6	19265.3
60°	6812.4	7269.0	7853.2	9414.4	11267.8	13599.5	16327.5	17764.5	18169.1	20458.9
62.5°	4359.7	4641.7	5178.9	6649.5	8779.9	12214.6	16723.7	20500.9	20175.2	22416.3
65°	2984.8	3166.1	3658.0	4483.9	5675.8	9092.1	15662.7	22552.3	23361.5	25518.6
67.5°	2168.9	2306.6	2726.3	3449.8	3698.3	5380.4	12154.1	22458.3	26458.7	28715.0
70°	1581.4	1678.7	2031.3	2726.3	2845.5	2993.2	7363.0	19090.7	26391.6	29564.4
72.5°	1171.8	1238.9	1475.6	2115.2	2303.2	2021.2	3644.6	13874.8	22678.2	26740.8
75°	847.8	898.1	1072.7	1618.3	1843.3	1539.4	1818.1	8108.4	15818.8	18810.4
77.5°	648.0	686.6	800.8	1185.2	1475.6	1155.0	1128.1	3730.2	7500.6	7537.6
80°	520.4	545.6	607.7	834.3	1131.5	864.6	735.3	1505.8	2370.4	2006.1
82.5°	382.8	424.7	513.7	585.9	809.2	596.0	448.2	760.5	901.5	775.6
85°	218.2	246.8	310.6	419.7	517.1	364.3	256.8	337.4	419.7	344.1
87.5°	77.2	100.7	109.1	164.5	225.0	151.1	99.0	97.4	137.7	102.4
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°
4638.4	0°	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4
4688.7	2.5°	4672.0	4663.6	4630.0	4584.7	4537.7	4492.3	4477.2	4445.3	4423.5	4411.7
4797.9	5°	4766.0	4739.1	4660.2	4559.5	4453.7	4339.6	4259.0	4185.1	4131.4	4081.0
4947.3	7.5°	4900.3	4853.3	4717.3	4541.0	4353.0	4163.3	4022.3	3914.8	3842.7	3795.6
5121.9	10°	5056.4	4984.2	4776.0	4512.5	4222.1	3950.1	3783.9	3691.6	3646.2	3621.1
5321.6	12.5°	5236.0	5133.6	4836.5	4447.0	4022.3	3711.7	3597.6	3570.7	3572.4	3574.1
5573.4	15°	5457.6	5314.9	4885.2	4304.3	3762.1	3528.7	3508.6	3552.2	3597.6	3619.4
5858.8	17.5°	5707.7	5506.3	4893.5	4069.3	3506.9	3411.2	3475.0	3569.0	3637.8	3668.1
6177.8	20°	5976.3	5701.0	4833.1	3736.9	3297.1	3315.5	3429.7	3550.6	3626.1	3664.7
6542.1	22.5°	6283.6	5909.2	4688.7	3387.7	3125.8	3211.4	3345.7	3463.3	3542.2	3580.8
6970.2	25°	6634.4	6142.5	4462.1	3093.9	2978.1	3093.9	3228.2	3325.6	3389.4	3424.6
7448.6	27.5°	7023.9	6386.0	4159.9	2860.6	2848.8	2973.1	3083.9	3159.4	3193.0	3219.8
7957.3	30°	7415.0	6607.6	3794.0	2684.3	2736.4	2853.9	2932.8	2966.3	2976.4	2981.5
8524.7	32.5°	7838.1	6798.9	3409.5	2538.3	2628.9	2738.0	2785.0	2800.2	2753.1	2721.2
9213.0	35°	8350.1	7003.7	3033.5	2422.4	2523.2	2617.2	2632.3	2618.8	2563.4	2498.0
10075.8	37.5°	8983.0	7258.9	2733.0	2340.2	2424.1	2486.2	2467.8	2464.4	2469.4	2392.2
11113.3	40°	9758.6	7591.3	2513.1	2276.4	2343.5	2357.0	2304.9	2333.5	2358.6	2241.1
12251.5	42.5°	10619.8	7992.5	2373.7	2232.7	2276.4	2244.5	2163.9	2195.8	2192.4	2038.0
13394.7	45°	11497.7	8429.0	2325.1	2200.8	2214.3	2150.5	2061.5	2069.9	1999.4	1860.1
14490.9	47.5°	12370.7	8897.4	2355.3	2174.0	2137.0	2064.9	1996.0	1959.1	1855.0	1750.9
15541.8	50°	13226.9	9389.2	2466.1	2120.3	2031.3	1989.3	1939.0	1873.5	1762.7	1673.7
16535.7	52.5°	14020.9	9884.5	2590.3	2031.3	1898.7	1923.8	1891.9	1816.4	1707.3	1616.6
17475.8	55°	14773.0	10379.7	2639.0	1908.7	1774.4	1866.8	1848.3	1709.0	1578.0	1504.2
18459.5	57.5°	15592.2	10975.7	2585.3	1752.6	1673.7	1801.3	1730.8	1576.3	1500.8	1445.4
19740.4	60°	16727.0	11910.7	2469.4	1559.6	1578.0	1703.9	1583.1	1519.3	1437.0	1374.9
21660.9	62.5°	18612.3	13654.9	2283.1	1368.2	1465.5	1559.6	1512.6	1448.8	1364.8	1304.4
24944.5	65°	21399.0	16079.0	1932.2	1218.8	1339.6	1418.5	1437.0	1373.2	1285.9	1222.1
27821.9	67.5°	23749.2	17600.0	1462.2	1094.5	1210.4	1304.4	1356.4	1294.3	1202.0	1139.9
28495.1	70°	23620.0	16495.4	1116.4	972.0	1096.2	1191.9	1259.1	1210.4	1111.3	1052.6
25882.9	72.5°	20979.3	13799.3	903.2	847.8	980.4	1074.4	1155.0	1118.0	1017.3	960.2
18961.5	75°	15412.6	9795.5	721.9	721.9	836.0	951.8	1040.8	1017.3	925.0	884.7
7960.6	77.5°	6496.8	4109.6	565.7	599.3	695.0	817.6	928.3	936.7	856.2	906.5
2105.1	80°	1727.4	1133.2	431.4	471.7	545.6	674.9	807.5	804.1	716.8	669.8
782.3	82.5°	658.1	446.5	307.2	332.4	394.5	517.1	639.6	659.7	572.5	495.2
307.2	85°	253.5	191.4	189.7	199.8	230.0	342.5	483.5	500.3	431.4	366.0
85.6	87.5°	65.5	57.1	70.5	67.1	105.8	183.0	277.0	287.1	263.6	152.8
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°
4638.4
4425.2
4101.2
3805.7
3627.8
3577.4
3617.7
3674.8
3674.8
3590.8
3434.7
3229.9
2993.2
2731.3
2501.3
2397.3
2244.5
2036.3
1865.1
1750.9
1667.0
1618.3
1497.4
1440.4
1371.5
1304.4
1225.5
1141.5
1057.6
960.2
872.9
822.6
622.8
495.2
377.7
218.2
0.0

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