

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: P850385

Luminaire Tested: **GLAN-SB7D-840-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P850385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46996 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

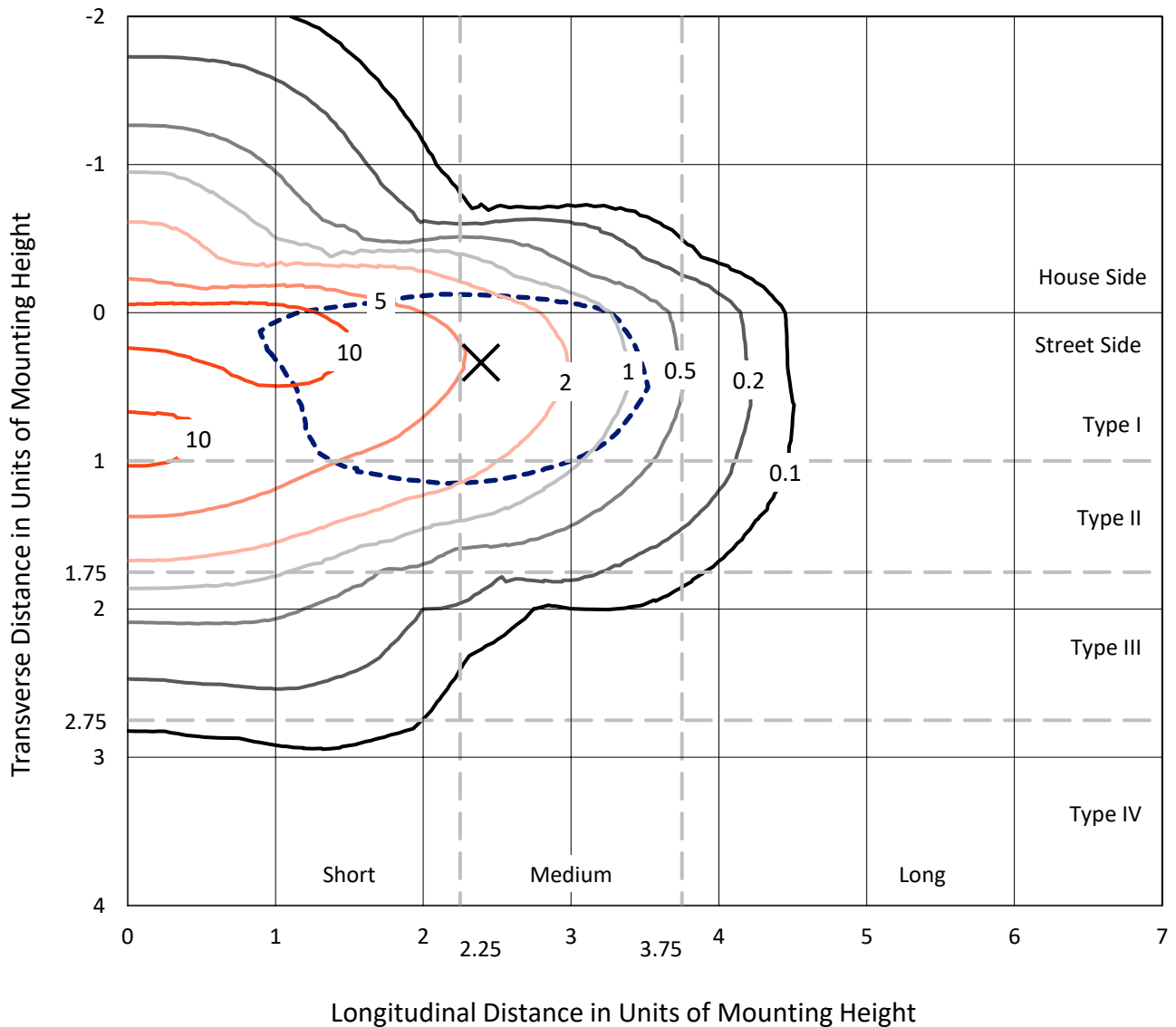
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

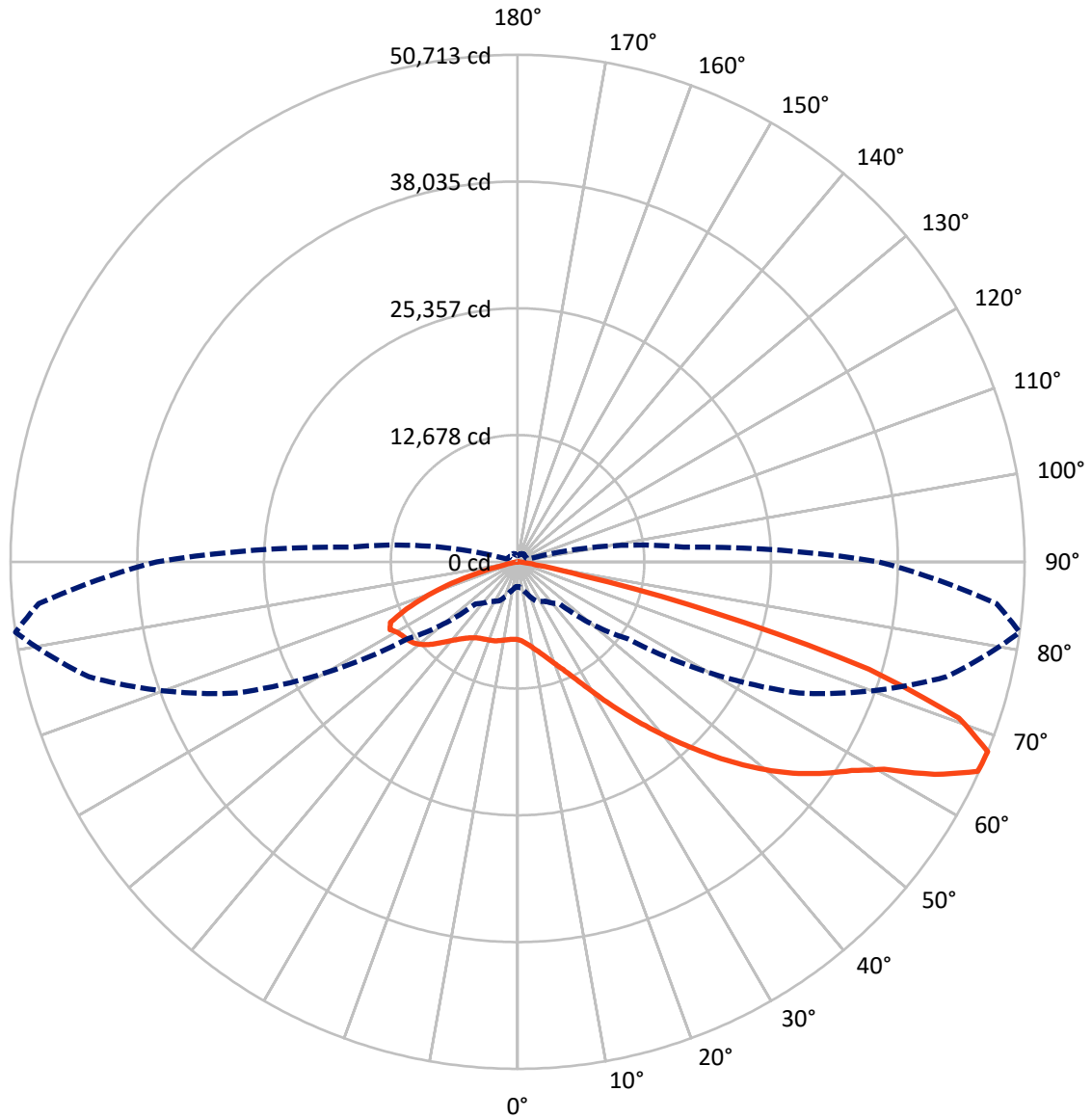
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8512.9	0.0	8512.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	38483.1	0.0	38483.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	46996.0	0.0	46996.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	693.6	1.5
10°-20°	1802.5	3.8
20°-30°	2887.0	6.1
30°-40°	5105.1	10.9
40°-50°	8944.7	19.0
50°-60°	11929.8	25.4
60°-70°	11106.0	23.6
70°-80°	4262.5	9.1
80°-90°	264.7	0.6
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°	46996.0	100.0
0°-180°	46996.0	100.0

**Coefficient of Utilization**

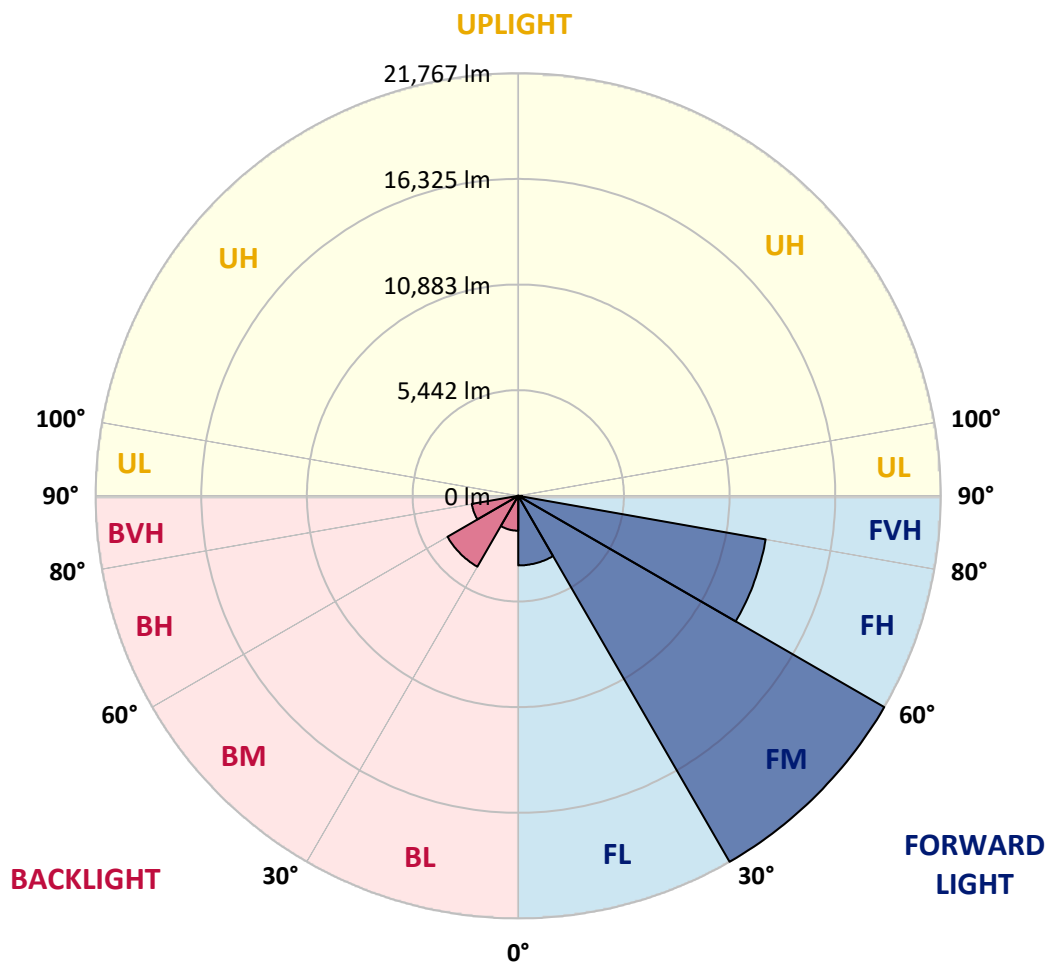


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3585.3	7.6			
FM (30°-60°)	21766.6	46.3			
FH (60°-80°)	12938.7	27.5			G5
FVH (80°-90°)	192.5	0.4			G2/225
BL (0°-30°)	1797.9	3.8	B3/2500		
BM (30°-60°)	4213.0	9.0	B3/5000		
BH (60°-80°)	2429.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	72.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6
2.5°	8228.9	8276.3	8249.2	8235.7	8212.0	8178.1	8151.1	8066.5	7978.5	7921.0
5°	8394.7	8442.1	8438.7	8452.2	8469.1	8479.3	8472.5	8377.8	8252.6	8154.5
7.5°	8252.6	8306.7	8350.7	8418.4	8536.8	8662.0	8722.9	8702.6	8574.0	8438.7
10°	7849.9	7907.5	8012.3	8171.4	8421.8	8692.4	8919.2	9024.0	8942.8	8794.0
12.5°	7112.3	7169.8	7376.2	7721.4	8140.9	8611.2	9044.3	9325.2	9345.5	9196.6
15°	6283.3	6340.9	6560.8	6993.9	7633.4	8387.9	9112.0	9643.2	9822.6	9694.0
17.5°	5769.0	5819.8	5985.6	6334.1	7000.7	7941.3	9088.3	9981.6	10391.0	10289.5
20°	5613.4	5657.4	5735.2	5978.8	6533.7	7477.7	8932.7	10299.7	11003.4	10945.9
22.5°	5779.2	5819.8	5843.5	5951.7	6300.2	7173.2	8736.4	10624.5	11714.0	11720.8
25°	6161.5	6202.1	6175.1	6242.7	6395.0	7078.5	8662.0	11006.8	12607.3	12681.7
27.5°	6790.9	6794.3	6730.0	6726.6	6750.3	7220.6	8739.8	11416.2	13734.0	13872.7
30°	8053.0	8002.2	7755.2	7487.9	7366.1	7646.9	8956.4	11900.1	15063.8	15310.8
32.5°	9998.5	9924.1	9470.7	8831.2	8188.3	8333.8	9345.5	12451.6	16511.9	16958.6
35°	12109.9	12089.6	11615.9	10665.1	9541.7	9311.6	9978.2	13175.7	18092.1	18802.6
37.5°	14072.4	14062.2	13791.5	12671.6	11304.6	10675.2	10993.3	14123.1	19783.9	20812.5
40°	15865.7	15896.1	15625.4	14623.9	13246.8	12424.6	12373.8	15293.8	21665.1	23001.7
42.5°	17415.4	17449.2	17175.1	16434.1	15165.3	14360.0	14069.0	16728.5	23502.4	25353.3
45°	18467.6	18677.4	18636.8	18044.7	17134.5	16298.8	16105.9	18528.6	25596.9	27847.0
47.5°	18765.4	18958.3	19262.8	19344.0	18789.1	17966.9	18197.0	20697.4	27715.0	30344.1
50°	18031.2	18210.5	18843.2	19685.7	20071.5	19817.7	20230.5	23022.0	29883.9	32834.4
52.5°	16583.0	16765.7	17564.2	18897.4	20470.7	21269.3	22270.8	25312.7	31985.1	35192.7
55°	14488.5	14681.4	15706.6	17215.7	19709.4	21868.2	23972.8	27600.0	33910.4	37314.3
57.5°	11639.6	11781.7	12847.5	14958.9	17794.3	21272.6	25228.1	30097.1	35724.0	39398.6
60°	7586.0	7711.2	8949.6	11304.6	14620.5	19283.1	25478.5	32881.8	38133.1	42108.8
62.5°	5044.9	5129.5	5863.8	7592.8	10296.3	15463.0	24013.4	35104.8	41665.6	46825.5
65°	3461.4	3546.0	4280.2	5484.8	6652.1	10228.6	19800.8	34810.4	44866.4	50571.2
67.5°	2470.0	2541.1	3163.7	4300.5	4814.9	5941.6	13422.7	31047.8	44406.3	50713.3
70°	1769.6	1810.2	2324.5	3349.8	3826.8	3569.7	7464.2	23746.1	38880.9	46828.9
72.5°	1238.4	1251.9	1614.0	2551.2	3082.5	2605.4	3552.8	15831.8	29406.8	36756.0
75°	839.1	856.0	1086.1	1871.1	2473.4	1989.6	1881.3	8489.4	17263.1	20345.5
77.5°	514.3	521.1	700.4	1279.0	1850.8	1515.8	1211.3	3596.8	6679.2	6557.4
80°	291.0	291.0	446.6	795.1	1262.1	977.9	849.3	1529.4	2114.7	1857.6
82.5°	162.4	165.8	324.8	494.0	835.7	578.6	466.9	707.2	913.6	808.7
85°	67.7	74.4	199.6	233.5	399.3	287.6	189.5	297.8	338.4	301.1
87.5°	6.8	10.2	60.9	44.0	47.4	57.5	27.1	57.5	47.4	47.4
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°
7785.6	0°	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6	7785.6
7900.7	2.5°	7836.4	7785.6	7657.1	7508.2	7311.9	7217.2	7088.6	7000.7	6926.2	6933.0
8096.9	5°	7988.7	7860.1	7572.5	7213.8	6767.2	6449.1	6110.8	5877.3	5687.8	5647.2
8367.6	7.5°	8198.4	7995.4	7491.3	6845.0	6090.5	5518.6	5007.7	4679.5	4446.0	4371.6
8695.8	10°	8469.1	8174.8	7386.4	6381.5	5295.3	4567.9	4019.7	3762.6	3603.5	3549.4
9081.6	12.5°	8783.8	8381.2	7247.7	5816.4	4476.5	3776.1	3427.6	3299.0	3248.2	3231.3
9555.3	15°	9179.7	8638.3	7037.9	5146.4	3782.9	3292.2	3143.4	3126.4	3133.2	3126.4
10123.7	17.5°	9650.0	8919.2	6696.1	4456.2	3315.9	3045.2	2991.1	3004.6	3021.5	3018.2
10759.8	20°	10164.3	9196.6	6259.6	3843.8	2997.9	2869.3	2838.8	2852.4	2865.9	2859.1
11494.1	22.5°	10749.7	9494.4	5775.8	3366.7	2784.7	2706.9	2673.0	2676.4	2676.4	2662.9
12424.6	25°	11450.1	9822.6	5268.3	3028.3	2622.3	2561.4	2520.8	2507.2	2486.9	2446.3
13554.7	27.5°	12285.8	10171.1	4781.0	2791.5	2493.7	2436.2	2388.8	2355.0	2304.2	2236.6
14911.5	30°	13226.5	10594.0	4368.2	2642.6	2392.2	2334.7	2280.5	2229.8	2155.3	2070.8
16471.3	32.5°	14332.9	11047.4	4067.1	2544.5	2300.8	2239.9	2175.7	2114.7	2033.5	1948.9
18224.0	35°	15652.5	11595.6	3891.1	2476.8	2229.8	2148.6	2077.5	2009.9	1948.9	1874.5
20129.0	37.5°	17083.8	12177.6	3837.0	2443.0	2182.4	2057.2	1976.0	1928.6	1921.9	1877.9
22189.6	40°	18650.4	12867.8	3877.6	2422.7	2131.7	1969.3	1881.3	1871.1	1888.0	1810.2
24392.3	42.5°	20308.3	13686.6	3945.3	2399.0	2060.6	1881.3	1796.7	1796.7	1783.2	1674.9
26720.2	45°	22101.6	14630.7	4012.9	2341.4	1976.0	1793.3	1729.0	1705.3	1647.8	1542.9
29061.7	47.5°	23908.5	15591.6	4063.7	2236.6	1874.5	1718.9	1661.3	1607.2	1522.6	1427.9
31359.1	50°	25623.9	16454.4	4009.6	2080.9	1759.5	1647.8	1586.9	1512.5	1421.1	1356.8
33534.8	52.5°	27156.7	17202.2	3779.5	1898.2	1637.7	1573.4	1519.2	1441.4	1367.0	1299.3
35497.3	55°	28489.9	17807.8	3373.4	1725.6	1529.4	1509.1	1454.9	1356.8	1255.3	1197.8
37442.8	57.5°	29768.8	18268.0	2865.9	1583.5	1431.3	1438.0	1356.8	1268.8	1174.1	1113.2
40065.1	60°	31470.8	18883.8	2351.6	1451.6	1326.4	1346.7	1258.7	1194.4	1076.0	998.2
44561.9	62.5°	34191.2	19841.4	1867.7	1289.1	1204.6	1211.3	1174.1	1096.3	954.2	862.8
47894.8	65°	36349.9	19489.5	1471.9	1113.2	1065.8	1076.0	1076.0	991.4	839.1	734.2
48074.1	67.5°	36106.3	16687.9	1174.1	940.6	933.9	940.6	964.3	893.3	744.4	659.8
44413.0	70°	33260.7	13273.8	940.6	781.6	812.1	795.1	862.8	815.4	670.0	585.4
34431.4	72.5°	27139.8	9562.0	717.3	646.3	622.6	649.6	778.2	734.2	558.3	463.6
18237.6	75°	15858.9	5102.5	534.6	510.9	450.0	541.4	690.3	626.0	426.3	341.7
5589.7	77.5°	5163.4	1779.8	392.5	375.6	335.0	436.5	588.7	527.8	348.5	270.7
1637.7	80°	1383.9	538.0	267.3	247.0	216.5	324.8	466.9	419.6	250.4	175.9
703.8	82.5°	554.9	226.7	155.6	138.7	118.4	223.3	368.8	338.4	186.1	111.7
219.9	85°	179.3	74.4	57.5	44.0	54.1	138.7	219.9	230.1	132.0	57.5
33.8	87.5°	23.7	10.2	10.2	13.5	10.2	23.7	67.7	64.3	37.2	6.8
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°
7785.6
6865.3
5555.9
4297.2
3508.8
3221.2
3123.1
3011.4
2855.8
2656.1
2439.6
2229.8
2064.0
1952.3
1867.7
1874.5
1813.6
1674.9
1539.5
1424.5
1346.7
1292.5
1191.0
1106.4
988.0
856.0
724.1
646.3
575.2
453.4
331.6
260.5
172.6
111.7
44.0
0.0
0.0

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