

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: P853124

Luminaire Tested: **GLAN-SB8D-850-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P853124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8D-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53495 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

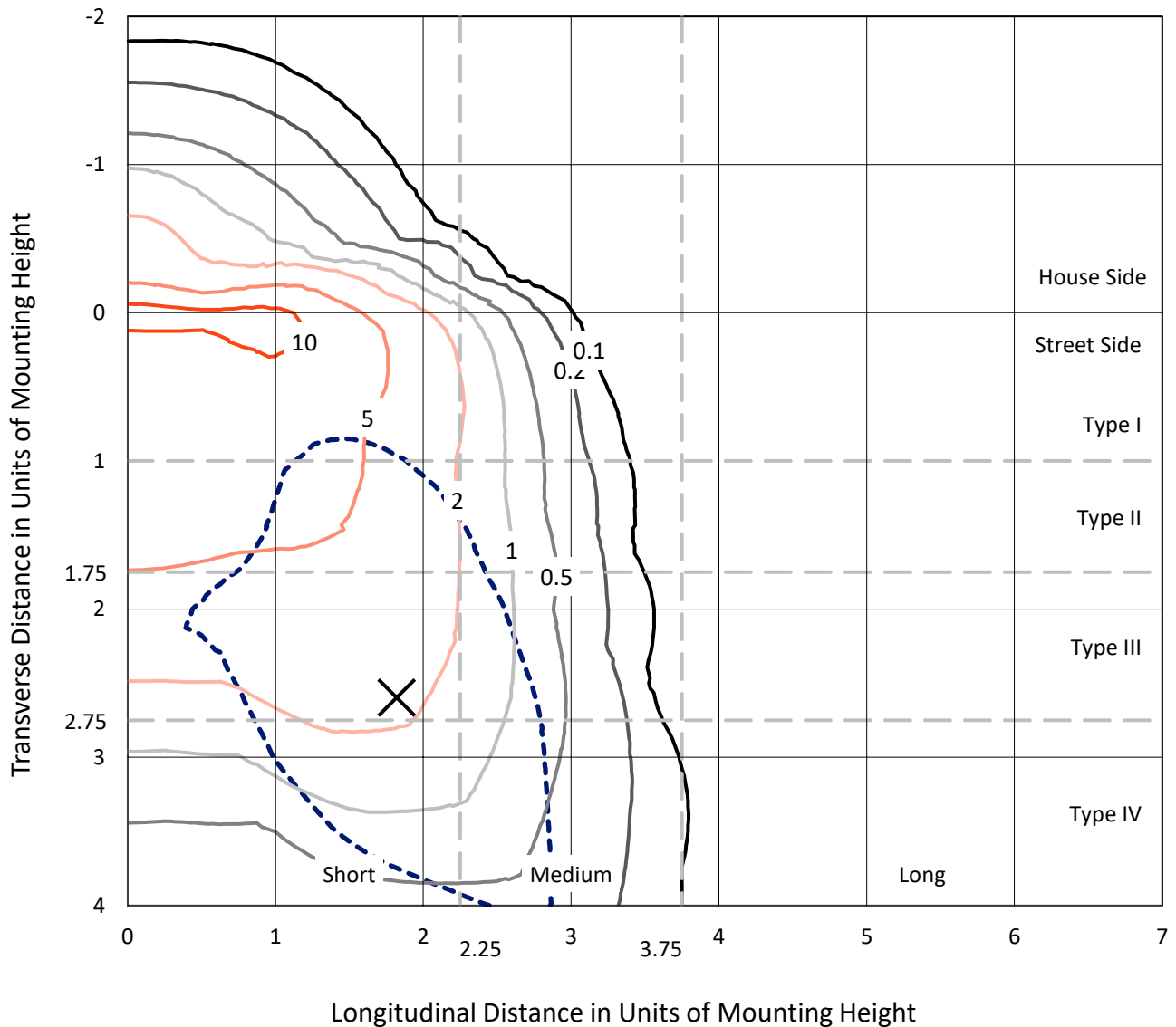
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

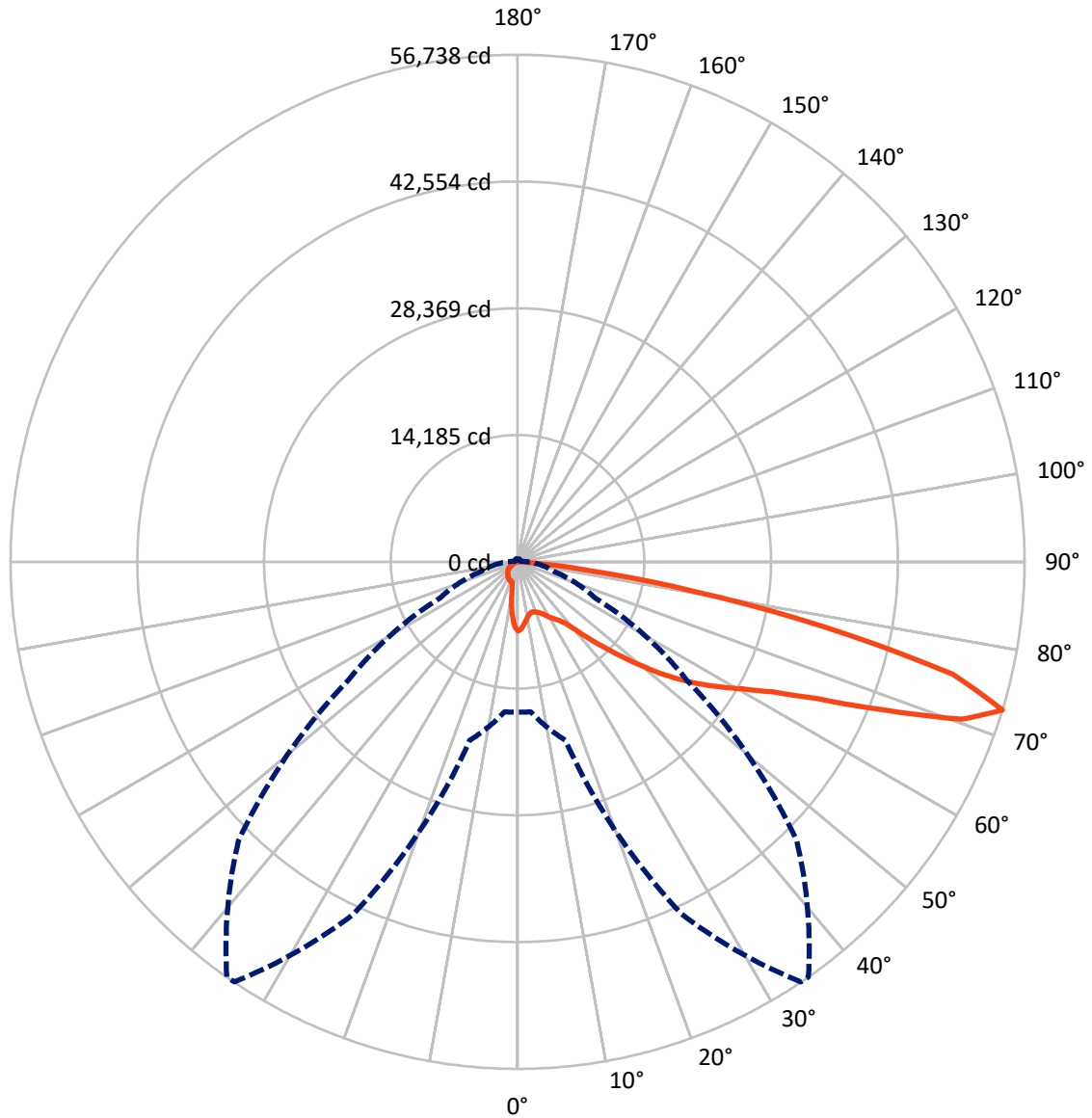
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6020.6	0.0	6020.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	47474.4	0.0	47474.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	53495.0	0.0	53495.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.1	1.2
10°-20°	1490.4	2.8
20°-30°	2421.2	4.5
30°-40°	4039.7	7.6
40°-50°	7643.2	14.3
50°-60°	12145.1	22.7
60°-70°	15024.3	28.1
70°-80°	9339.2	17.5
80°-90°	754.8	1.4
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°	53495.0	100.0
0°-180°	53495.0	100.0

**Coefficient of Utilization**

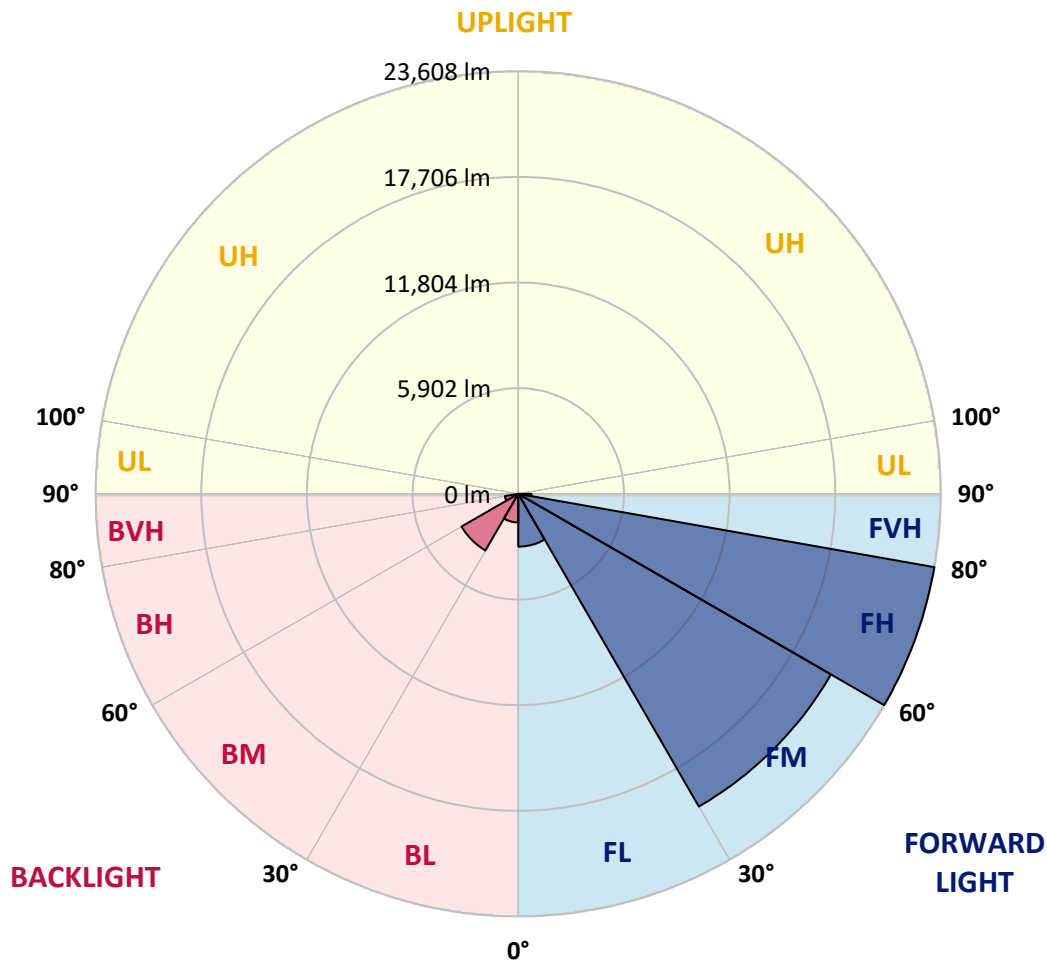


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2948.9	5.5			
FM	(30°-60°)	20173.0	37.7			
FH	(60°-80°)	23608.0	44.1			G5
FVH	(80°-90°)	744.5	1.4			G4/750
BL	(0°-30°)	1599.8	3.0	B3/2500		
BM	(30°-60°)	3655.1	6.8	B3/5000		
BH	(60°-80°)	755.5	1.4	B2/1000		G2/1000
BVH	(80°-90°)	10.3	0.0			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2
2.5°	7408.3	7471.0	7482.8	7502.4	7502.4	7525.9	7565.1	7619.9	7710.1	7757.1
5°	6828.2	6875.2	6934.0	6981.0	7071.2	7082.9	7235.8	7384.8	7592.5	7749.3
7.5°	6244.1	6299.0	6377.4	6491.1	6608.7	6643.9	6875.2	7126.1	7455.3	7749.3
10°	5832.6	5836.5	5907.0	6020.7	6208.8	6252.0	6534.2	6890.9	7302.5	7702.3
12.5°	5601.3	5628.7	5660.1	5746.3	5926.6	5954.1	6255.9	6675.3	7149.6	7674.8
15°	5601.3	5620.9	5640.5	5683.6	5828.6	5852.2	6118.7	6538.1	7071.2	7686.6
17.5°	5660.1	5691.4	5675.8	5726.7	5879.6	5895.3	6130.5	6498.9	7067.3	7761.1
20°	5801.2	5824.7	5793.4	5824.7	5977.6	6008.9	6252.0	6573.4	7133.9	7890.4
22.5°	6024.6	6036.4	5961.9	5985.4	6142.2	6181.4	6463.6	6785.0	7294.6	8098.2
25°	6306.8	6330.4	6216.7	6244.1	6393.1	6440.1	6765.4	7102.5	7549.4	8384.3
27.5°	6632.2	6643.9	6545.9	6542.0	6734.1	6800.7	7130.0	7494.5	7890.4	8744.9
30°	7004.6	7039.8	6945.8	6930.1	7173.1	7228.0	7553.3	7976.6	8392.1	9285.8
32.5°	7298.5	7326.0	7271.1	7310.3	7557.2	7600.3	8066.8	8658.7	9180.0	10054.1
35°	7721.9	7737.5	7612.1	7682.7	7964.9	8074.6	8768.4	9615.1	10171.7	11018.4
37.5°	9254.5	9254.5	8721.4	8372.5	8643.0	8741.0	9728.8	10818.4	11394.6	12311.9
40°	11375.0	11339.8	10559.7	9846.4	9811.1	10003.1	11096.7	12335.4	12974.3	13864.1
42.5°	13636.7	13581.9	12519.6	11814.1	11696.5	11763.1	12676.4	14205.1	14855.8	15757.3
45°	15643.6	15627.9	14655.9	13707.3	13495.6	13707.3	14648.0	16392.3	16858.7	17807.3
47.5°	17325.2	17325.2	16615.7	15996.4	15886.7	16012.1	17317.4	18818.6	18775.5	19990.6
50°	19261.5	19245.9	18571.7	18305.1	18418.8	18595.2	20390.4	21374.3	20758.9	22134.7
52.5°	20617.8	20711.8	20480.6	20437.5	21017.6	21323.3	23510.5	23875.1	22534.5	24169.0
55°	21691.8	21801.5	22068.1	22369.9	23487.0	23886.8	26532.6	26246.5	24020.1	25932.9
57.5°	23212.6	23055.8	23467.4	24063.2	25870.2	26352.3	29460.7	28484.7	25215.6	27363.6
60°	25058.8	25082.3	25152.9	25905.5	28249.5	28868.8	32345.6	30601.3	25983.9	28241.6
62.5°	27277.4	27312.7	27457.7	28614.0	31444.0	32028.1	35418.6	32333.8	26336.6	27994.7
65°	27124.5	27273.5	28892.3	32847.3	36300.6	36876.8	39005.2	33548.9	25803.6	25736.9
67.5°	24710.0	24953.0	27661.5	37903.8	43622.6	44265.5	43340.4	33788.0	23502.7	20014.1
70°	21542.8	21629.1	24886.3	42450.6	52101.0	52751.7	47220.9	31157.9	17834.8	11163.4
72.5°	16823.5	16843.1	20664.8	43505.0	56702.8	56738.0	44175.3	23130.3	9591.6	4288.2
75°	12017.9	11900.3	13840.6	35281.5	49886.4	50286.2	33117.8	10849.8	3664.9	2026.5
77.5°	6444.0	6573.4	7831.6	20923.5	34462.2	35144.3	18069.9	3127.9	1865.8	1379.7
80°	1991.2	2101.0	3210.3	9579.8	19520.2	19931.8	6698.8	1391.5	1301.3	983.9
82.5°	627.2	650.7	1497.3	4025.6	8102.1	8290.2	1940.3	787.9	889.8	650.7
85°	180.3	184.2	666.4	1501.3	2003.0	2042.2	544.8	305.7	509.6	403.7
87.5°	19.6	62.7	250.9	250.9	176.4	172.5	58.8	66.6	145.0	51.0
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°
7753.2	0°	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2	7753.2
7788.5	2.5°	7768.9	7772.8	7721.9	7635.6	7541.6	7463.2	7365.2	7286.8	7231.9	7216.2
7859.1	5°	7823.8	7796.3	7651.3	7388.7	7075.1	6804.6	6502.8	6263.7	6106.9	6040.3
7933.5	7.5°	7906.1	7827.7	7510.2	6992.8	6393.1	5860.0	5319.1	4899.7	4633.1	4499.8
8004.1	10°	7976.6	7819.9	7275.0	6420.5	5503.3	4695.8	3966.8	3461.1	3178.9	3045.6
8086.4	12.5°	8043.3	7815.9	6969.3	5742.4	4499.8	3512.1	2834.0	2583.1	2504.7	2477.3
8219.7	15°	8168.7	7827.7	6585.1	4966.3	3500.3	2653.7	2406.7	2402.8	2418.5	2410.6
8423.5	17.5°	8341.2	7839.5	6150.1	4143.2	2700.7	2340.1	2328.3	2363.6	2387.1	2375.4
8678.3	20°	8564.6	7886.5	5687.5	3327.8	2320.5	2261.7	2289.1	2320.5	2340.1	2320.5
9019.3	22.5°	8878.2	7968.8	5181.9	2673.3	2199.0	2214.6	2238.2	2273.4	2293.0	2265.6
9454.4	25°	9262.3	8098.2	4684.1	2324.4	2140.2	2159.8	2195.0	2234.2	2257.8	2230.3
10003.1	27.5°	9760.1	8305.9	4225.5	2246.0	2081.4	2093.1	2144.1	2202.9	2234.2	2199.0
10783.2	30°	10481.3	8646.9	3829.6	2281.3	2046.1	2018.7	2089.2	2171.5	2206.8	2175.4
11845.4	32.5°	11437.8	9129.0	3586.5	2336.2	2030.4	1932.4	1999.1	2104.9	2163.7	2144.1
13233.0	35°	12692.1	9862.0	3492.5	2398.9	2018.7	1842.3	1889.3	2003.0	2104.9	2124.5
14981.2	37.5°	14212.9	10881.2	3519.9	2426.3	1983.4	1767.8	1791.3	1889.3	2022.6	2085.3
16948.9	40°	15941.5	12068.8	3676.7	2398.9	1944.2	1705.1	1709.0	1783.5	1901.1	1995.1
19065.5	42.5°	17725.0	13456.4	3966.8	2297.0	1908.9	1650.2	1638.4	1689.4	1767.8	1834.4
21178.3	45°	19422.2	14883.2	4252.9	2155.8	1865.8	1595.3	1567.9	1587.5	1603.2	1630.6
23236.1	47.5°	20903.9	15886.7	4170.6	2026.5	1807.0	1532.6	1485.6	1477.7	1430.7	1426.8
25074.5	50°	21927.0	16106.2	3704.1	1897.1	1720.8	1462.1	1387.6	1340.5	1258.2	1219.0
26450.3	52.5°	22252.3	15239.9	3026.0	1767.8	1579.6	1368.0	1262.2	1187.7	1085.8	1050.5
27242.1	55°	21821.1	13542.7	2418.5	1611.0	1383.7	1242.6	1125.0	1027.0	944.7	901.5
27328.3	57.5°	20766.7	11382.9	1912.8	1426.8	1175.9	1101.4	983.9	885.9	815.3	772.2
26371.9	60°	19018.5	9038.9	1513.0	1207.3	1003.4	948.6	827.1	764.3	701.6	650.7
23902.5	62.5°	16364.9	6451.9	1187.7	956.4	838.8	776.1	705.6	658.5	584.0	513.5
19461.4	65°	12770.5	3947.2	917.2	701.6	674.2	642.8	599.7	556.6	466.4	395.9
12696.0	67.5°	8055.0	1869.7	654.6	529.2	533.1	517.4	497.8	462.5	395.9	333.2
5687.5	70°	3547.4	905.5	431.2	403.7	395.9	395.9	411.6	399.8	337.1	278.3
1975.5	72.5°	1207.3	486.0	321.4	305.7	286.1	282.2	344.9	333.2	270.5	215.6
983.9	75°	631.1	325.3	235.2	219.5	172.5	207.7	274.4	258.7	192.1	141.1
650.7	77.5°	411.6	231.3	160.7	141.1	98.0	137.2	203.8	180.3	113.7	70.6
427.3	80°	258.7	152.9	94.1	66.6	47.0	74.5	109.8	78.4	43.1	15.7
250.9	82.5°	137.2	78.4	35.3	23.5	19.6	23.5	27.4	19.6	7.8	0.0
129.4	85°	54.9	27.4	11.8	7.8	3.9	0.0	7.8	3.9	0.0	0.0
23.5	87.5°	19.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
7753.2
7243.7
6063.8
4519.4
3049.5
2469.4
2406.7
2371.4
2316.6
2261.7
2226.4
2199.0
2171.5
2144.1
2124.5
2101.0
2026.5
1861.9
1646.3
1422.9
1223.0
1046.6
901.5
764.3
638.9
501.7
384.1
325.3
266.5
203.8
129.4
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