

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: P852989

Luminaire Tested: **GLAN-SB7D-850-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61416 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

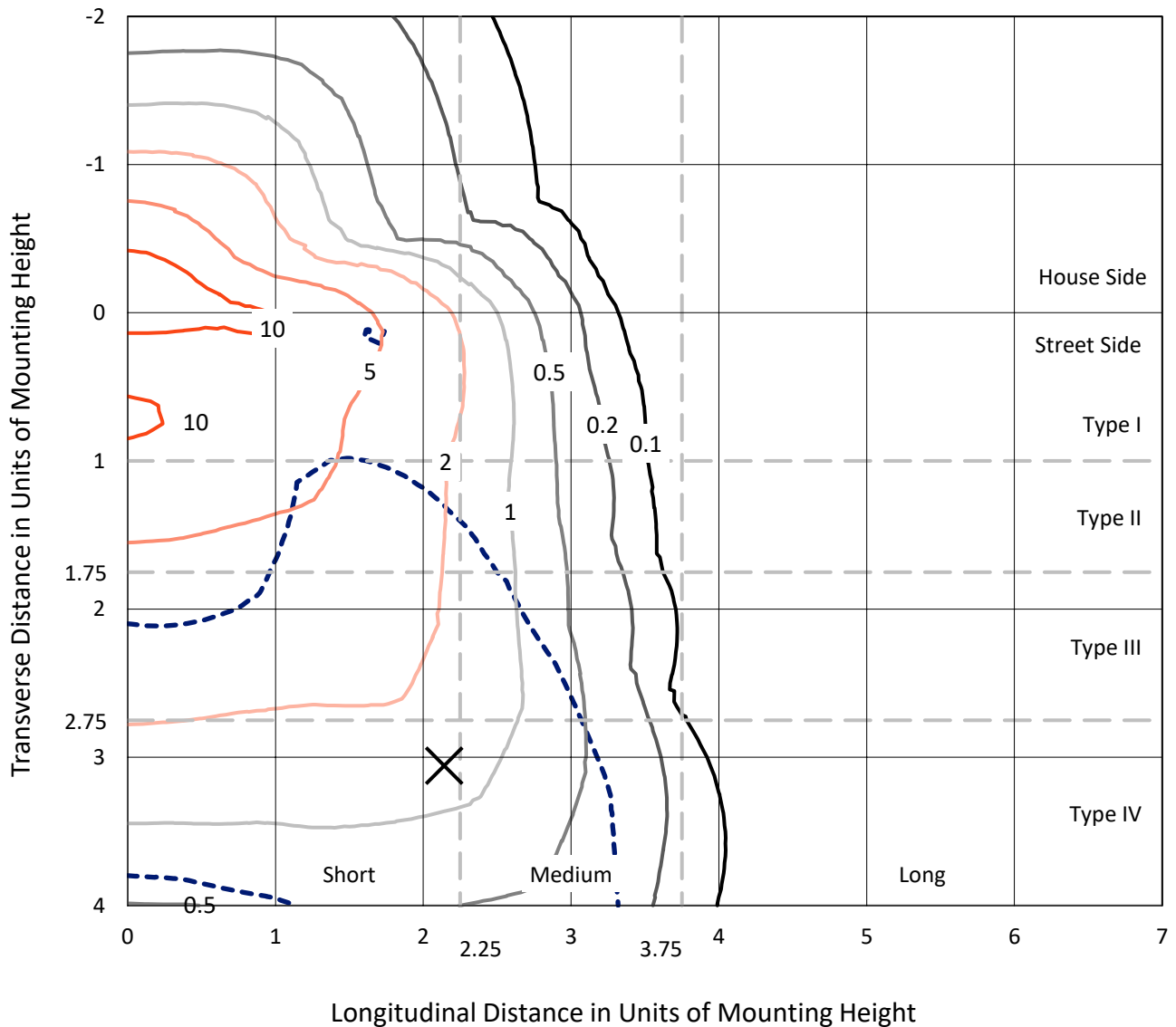
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

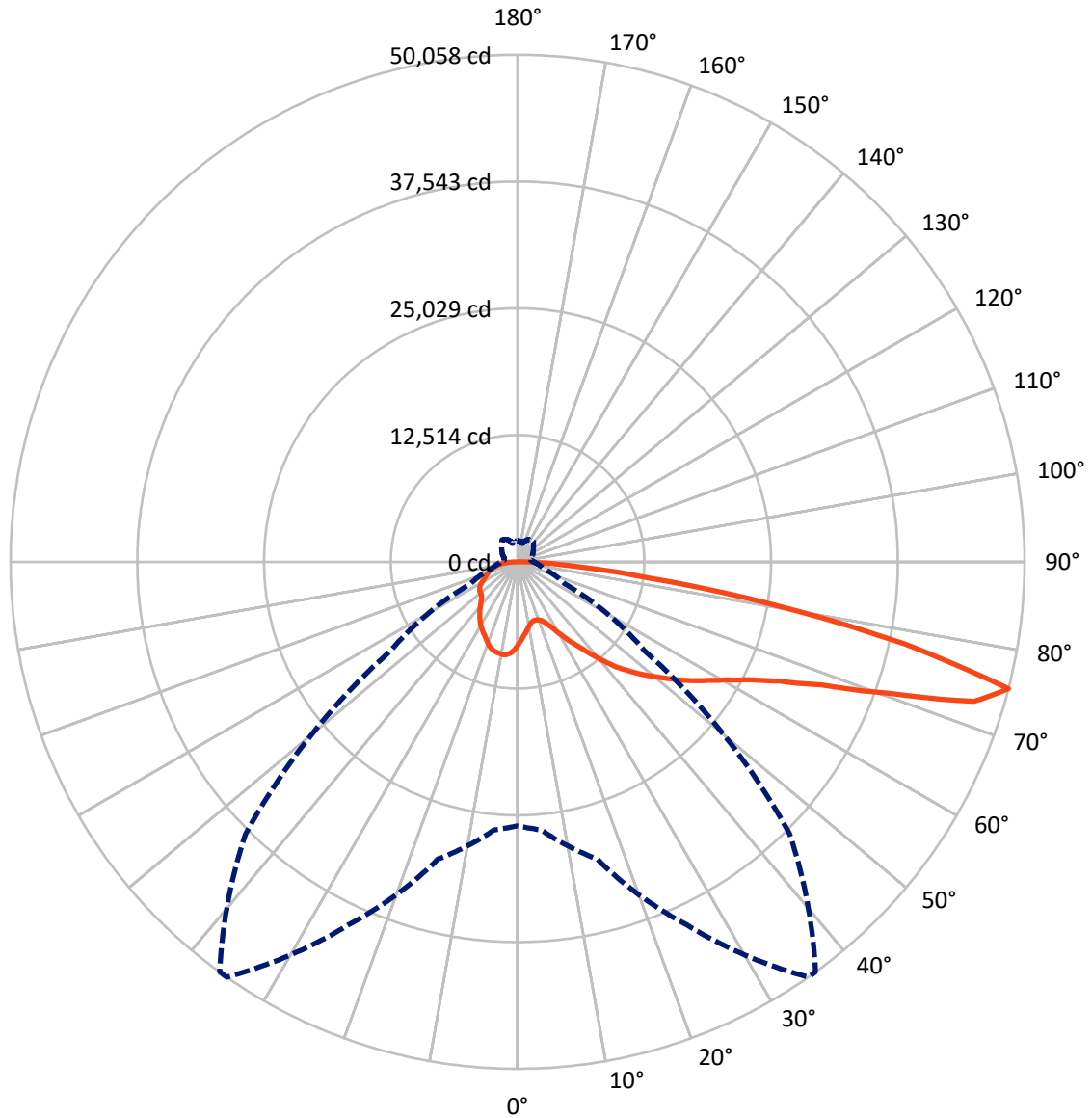
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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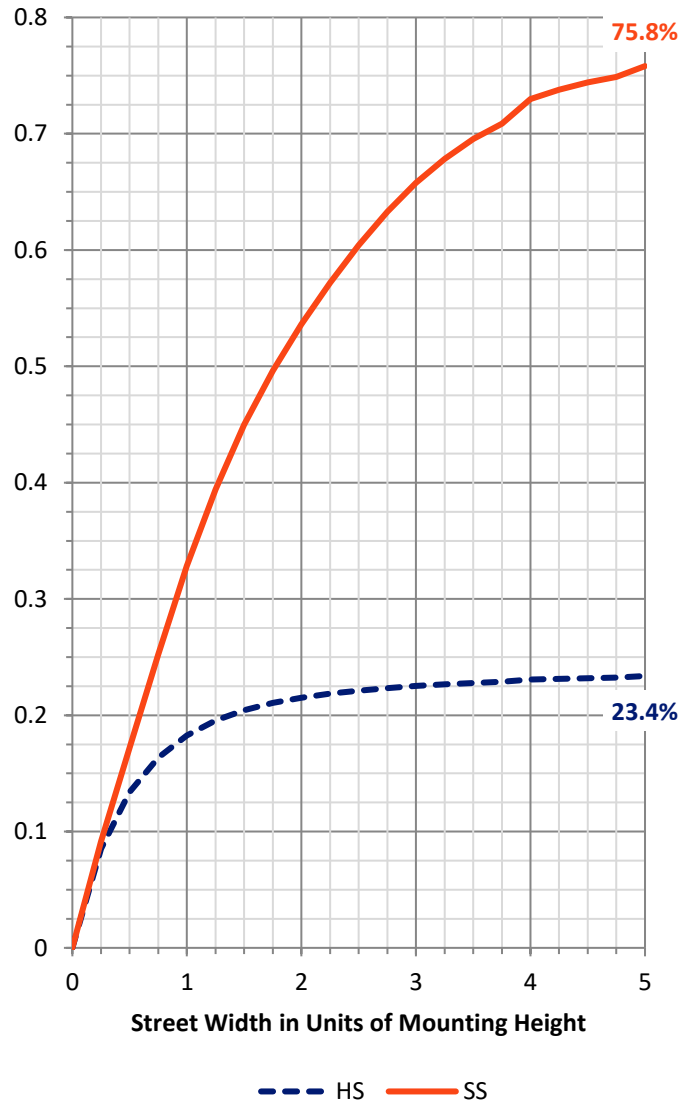
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14615.5	0.0	14615.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	46800.5	0.0	46800.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	61416.0	0.0	61416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.9	1.3
10°-20°	2235.1	3.6
20°-30°	3753.3	6.1
30°-40°	5833.1	9.5
40°-50°	8657.8	14.1
50°-60°	11952.7	19.5
60°-70°	14501.3	23.6
70°-80°	11984.2	19.5
80°-90°	1723.7	2.8
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°	61416.0	100.0
0°-180°	61416.0	100.0

Coefficient of Utilization

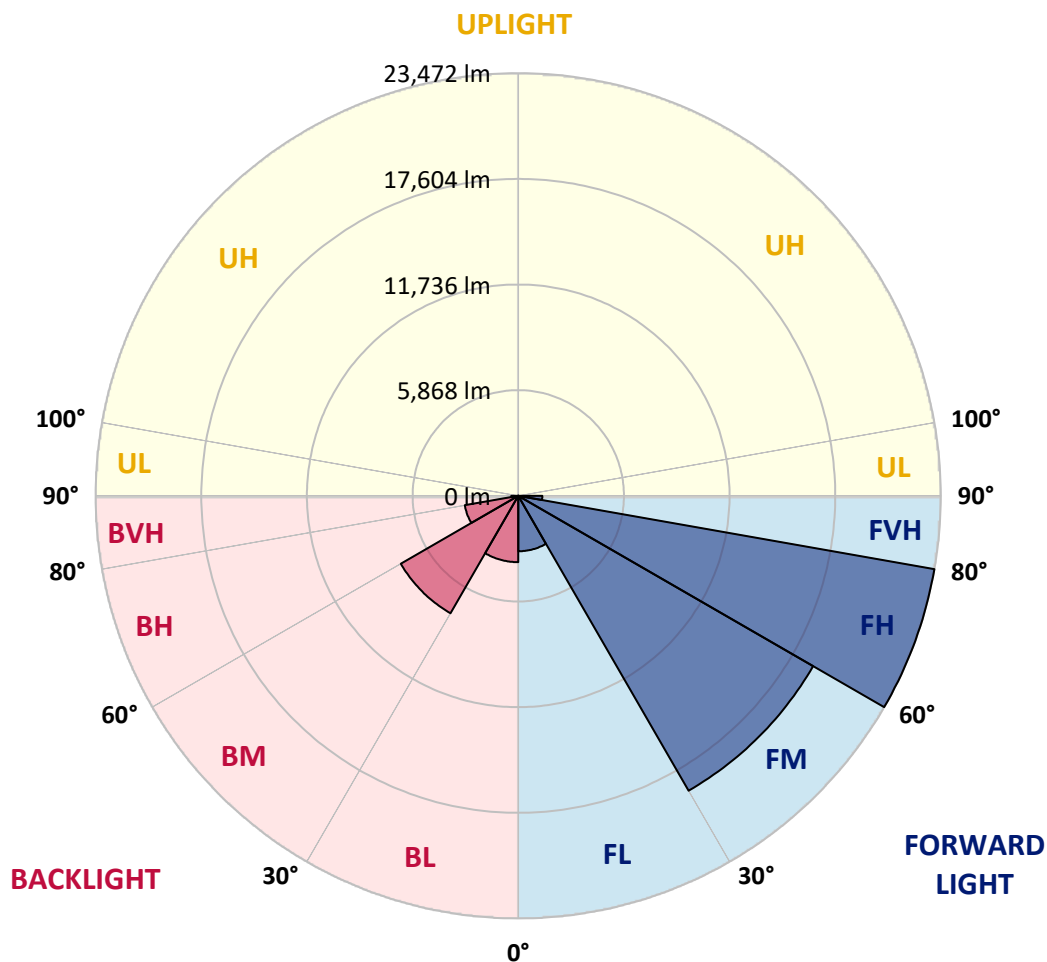


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3079.9	5.0			
FM (30°-60°)	18912.8	30.8			
FH (60°-80°)	23472.3	38.2			G5
FVH (80°-90°)	1335.6	2.2			G5
BL (0°-30°)	3683.3	6.0	B4/5000		
BM (30°-60°)	7530.8	12.3	B4/8500		
BH (60°-80°)	3013.3	4.9	B4/5000		G4/5000
BVH (80°-90°)	388.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1
2.5°	7546.6	7593.1	7613.0	7603.1	7652.9	7646.2	7716.0	7802.3	7921.8	8038.0
5°	6965.6	7015.4	7058.6	7098.4	7194.7	7224.6	7334.1	7500.2	7719.3	7941.7
7.5°	6424.4	6467.6	6534.0	6607.0	6769.7	6799.6	6982.2	7241.2	7546.6	7872.0
10°	5982.9	6026.0	6095.7	6178.7	6381.3	6417.8	6650.2	6995.5	7393.9	7805.6
12.5°	5793.6	5806.9	5846.7	5929.7	6105.7	6128.9	6384.6	6779.7	7244.5	7755.8
15°	5783.7	5810.2	5813.5	5856.7	6002.8	6012.7	6248.5	6640.2	7151.5	7745.8
17.5°	5883.3	5903.2	5873.3	5899.9	6022.7	6039.3	6225.2	6573.8	7121.7	7789.0
20°	6148.9	6165.5	6075.8	6039.3	6128.9	6142.2	6324.8	6617.0	7151.5	7878.6
22.5°	6713.3	6723.2	6504.1	6354.7	6361.4	6368.0	6527.4	6793.0	7267.7	8041.3
25°	7593.1	7586.5	7237.9	6949.0	6783.0	6746.5	6852.7	7078.5	7463.6	8257.1
27.5°	8622.4	8572.6	8223.9	7792.3	7430.4	7377.3	7354.1	7450.4	7742.5	8542.7
30°	9784.4	9737.9	9362.7	8798.3	8297.0	8210.7	7991.5	7941.7	8157.5	8931.1
32.5°	11059.3	11029.4	10581.2	9897.3	9226.6	9127.0	8758.5	8625.7	8795.0	9518.8
35°	12128.4	12101.8	11730.0	11026.1	10206.1	10083.2	9708.0	9558.6	9645.0	10272.5
37.5°	13094.6	13081.3	12762.5	12208.1	11361.5	11212.0	10790.4	10740.6	10724.0	11265.2
40°	13991.0	13957.8	13625.8	13333.6	12706.1	12570.0	12198.1	12155.0	12028.8	12487.0
42.5°	14983.7	14897.4	14416.0	14279.8	14110.5	13997.6	13775.2	13781.8	13502.9	13864.8
45°	15793.8	15744.0	15249.3	15169.6	15352.2	15305.8	15498.3	15548.1	15006.9	15309.1
47.5°	16663.7	16617.2	16198.9	16142.4	16637.1	16650.4	17331.0	17347.6	16474.4	16809.8
50°	17736.1	17669.7	17254.7	17324.4	17878.8	17928.7	19173.7	19060.8	17825.7	18333.7
52.5°	18443.3	18483.1	18393.5	18506.4	19263.3	19309.8	20986.5	20697.6	19163.7	19837.7
55°	18964.5	19044.2	19323.1	19582.1	20724.2	20770.7	22696.3	22254.8	20272.7	21232.2
57.5°	19635.2	19522.3	20043.6	20548.2	22112.0	22234.8	24359.7	23755.5	21255.4	22434.1
60°	20598.0	20518.3	20923.4	21670.4	23665.8	23861.7	26119.4	25106.8	21975.9	23386.9
62.5°	22550.3	22351.1	22414.1	23074.8	25624.7	25883.7	28104.8	26285.4	22334.5	23758.8
65°	25468.6	25126.7	24807.9	25266.1	28383.7	28639.4	30345.9	27211.7	22201.6	23038.3
67.5°	29144.0	28805.4	28413.6	28845.2	32447.5	32650.1	33111.6	27733.0	21155.8	20262.7
70°	32175.3	32049.1	32517.3	34293.5	38938.4	38945.0	36657.5	27301.4	18290.5	14366.2
72.5°	31773.6	31697.2	34164.0	39655.5	47119.2	46943.2	40014.1	24034.4	12321.0	6480.9
75°	26066.3	26561.0	30382.4	39559.2	50057.5	50034.2	37958.9	15279.2	5096.4	2686.0
77.5°	13977.7	14761.3	19724.8	29207.1	39077.8	39665.5	26687.1	5345.4	2188.0	1719.8
80°	4558.5	5242.5	7862.0	14870.8	25392.3	25282.7	11437.8	2098.3	1497.4	1218.5
82.5°	1935.6	2015.3	3512.7	7022.1	13031.5	12828.9	3642.2	1205.2	1052.5	833.4
85°	757.0	846.6	1550.5	3247.1	5644.2	5521.4	1314.8	597.6	674.0	544.5
87.5°	249.0	302.1	554.5	1112.2	1756.3	1693.3	322.1	205.8	292.2	249.0
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°
8184.1	0°	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1	8184.1
8207.3	2.5°	8253.8	8306.9	8370.0	8463.0	8542.7	8609.1	8678.8	8722.0	8738.6	8788.4
8220.6	5°	8313.6	8429.8	8585.8	8738.6	8888.0	8977.6	9057.3	9097.1	9133.7	9160.2
8257.1	7.5°	8413.2	8562.6	8808.3	9007.5	9133.7	9206.7	9259.8	9246.5	9259.8	9266.5
8297.0	10°	8499.5	8708.7	9000.8	9190.1	9286.4	9289.7	9276.4	9229.9	9206.7	9210.0
8356.7	12.5°	8602.4	8834.8	9150.3	9309.6	9336.2	9263.1	9206.7	9127.0	9097.1	9083.9
8446.4	15°	8741.9	9007.5	9312.9	9372.7	9306.3	9213.3	9117.1	8987.6	8921.2	8868.0
8599.1	17.5°	8911.2	9203.4	9439.1	9395.9	9253.2	9100.5	8944.4	8748.5	8612.4	8556.0
8808.3	20°	9146.9	9409.2	9535.4	9346.1	9130.3	8897.9	8632.3	8393.3	8267.1	8210.7
9073.9	22.5°	9432.5	9684.8	9628.3	9259.8	8954.4	8582.5	8250.5	8074.5	8011.5	7971.6
9415.9	25°	9774.4	9990.2	9694.8	9133.7	8665.5	8164.2	7908.5	7852.1	7822.2	7792.3
9834.2	27.5°	10219.3	10335.5	9744.6	8947.7	8214.0	7719.3	7626.3	7636.3	7626.3	7576.5
10415.2	30°	10807.0	10783.8	9791.0	8645.6	7696.0	7317.5	7324.2	7367.3	7374.0	7340.8
11225.3	32.5°	11580.6	11344.9	9814.3	8253.8	7201.3	6965.6	6972.3	7018.7	7051.9	6995.5
12284.4	35°	12516.9	11998.9	9777.8	7762.4	6819.5	6630.3	6580.5	6593.8	6603.7	6550.6
13569.3	37.5°	13609.2	12732.7	9615.1	7217.9	6504.1	6301.6	6195.3	6105.7	6052.6	6002.8
15023.5	40°	14807.7	13532.8	9316.3	6686.7	6152.2	5953.0	5793.6	5624.3	5445.0	5378.6
16564.1	42.5°	16062.7	14356.2	8954.4	6178.7	5747.1	5584.4	5415.1	5169.4	4900.5	4764.4
18164.4	45°	17364.2	15199.5	8599.1	5677.4	5332.1	5262.4	5066.5	4771.0	4478.8	4306.2
19768.0	47.5°	18639.2	15996.3	8077.9	5172.7	4943.7	5020.0	4867.3	4595.0	4269.7	3997.4
21358.3	50°	19857.6	16743.4	7224.6	4661.4	4628.2	4947.0	4800.9	4409.1	4037.3	3688.7
22918.8	52.5°	21066.2	17347.6	6132.3	4196.6	4458.9	4927.1	4714.6	4283.0	3828.1	3462.9
24386.3	55°	22092.1	17659.7	5079.8	3798.2	4213.2	4757.7	4611.6	4133.6	3532.6	3144.2
25392.3	57.5°	22676.4	17407.4	4203.3	3406.4	3874.6	4478.8	4435.7	3814.8	3180.7	2881.9
25588.2	60°	22424.1	16384.8	3486.1	3064.5	3552.5	4176.7	4130.2	3499.4	2911.7	2629.5
24539.0	62.5°	21033.0	14435.9	2918.4	2765.7	3260.4	3867.9	3824.8	3257.0	2705.9	2433.6
21753.4	65°	18230.8	11743.3	2476.8	2516.7	2964.9	3496.1	3559.2	3054.5	2543.2	2277.6
16829.7	67.5°	13904.7	8506.1	2131.5	2300.8	2676.0	3130.9	3313.5	2908.4	2407.1	2154.8
9737.9	70°	7925.1	4830.8	1839.3	2091.7	2420.4	2792.2	3124.2	2792.2	2261.0	2051.8
3648.8	72.5°	3004.7	2217.8	1590.3	1882.5	2174.7	2506.7	2915.1	2609.6	2091.7	1935.6
1885.8	75°	1603.6	1351.3	1338.0	1636.8	1892.5	2227.8	2652.8	2430.3	1965.5	2045.2
1304.8	77.5°	1092.3	956.2	1118.9	1401.1	1583.7	1919.0	2373.9	2158.1	1703.2	1696.6
903.1	80°	757.0	677.3	909.7	1128.8	1225.1	1613.6	2071.8	1852.6	1387.8	1294.8
557.8	82.5°	454.9	441.6	680.6	843.3	866.6	1245.0	1716.5	1553.8	1135.5	989.4
332.0	85°	249.0	262.3	434.9	494.7	504.7	869.9	1344.6	1201.9	873.2	733.7
119.5	87.5°	69.7	89.6	159.4	195.9	242.4	451.5	800.1	713.8	438.3	305.5
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°
8184.1
8785.0
9166.9
9276.4
9216.7
9077.2
8884.6
8559.3
8204.0
7978.2
7792.3
7586.5
7357.4
7022.1
6587.1
6036.0
5408.5
4781.0
4292.9
3967.5
3658.8
3423.0
3111.0
2842.0
2589.7
2390.5
2234.4
2114.9
2025.3
1909.1
2111.6
1563.8
1238.4
996.0
740.4
305.5
0.0

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