

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: P852986

Luminaire Tested: **GLAN-SB7D-840-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852986  
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-SB7D-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 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: 48728 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

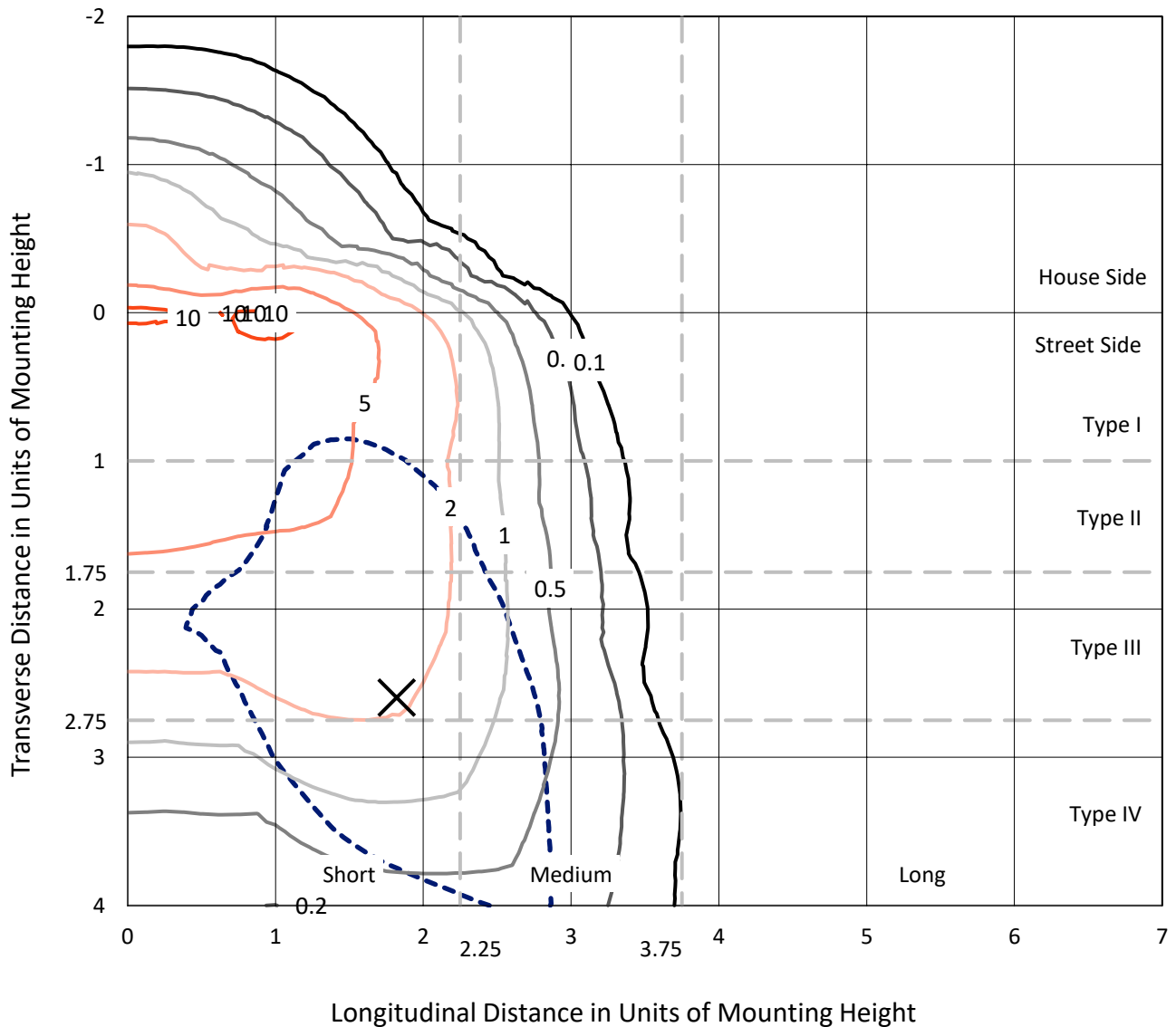
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

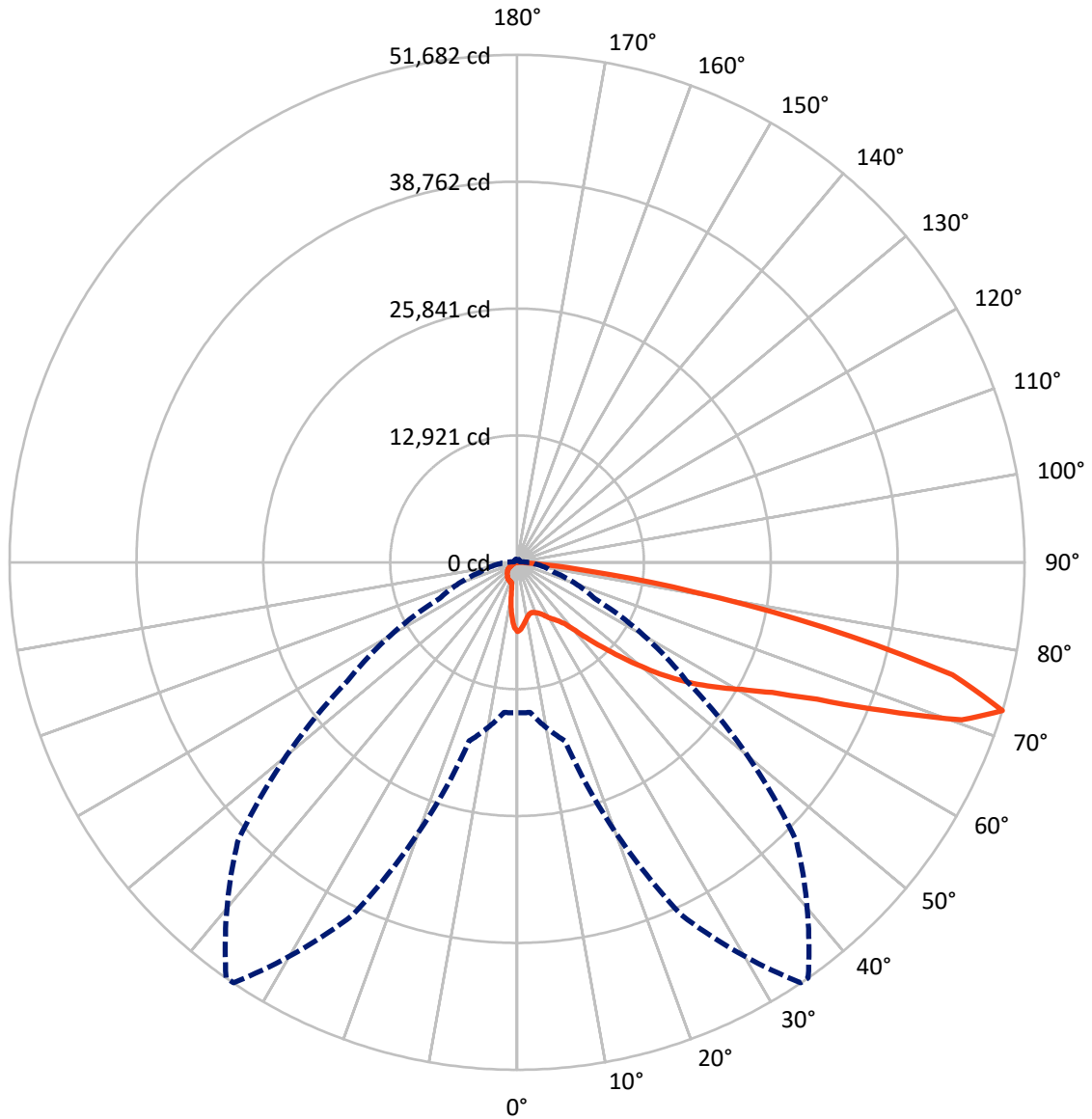
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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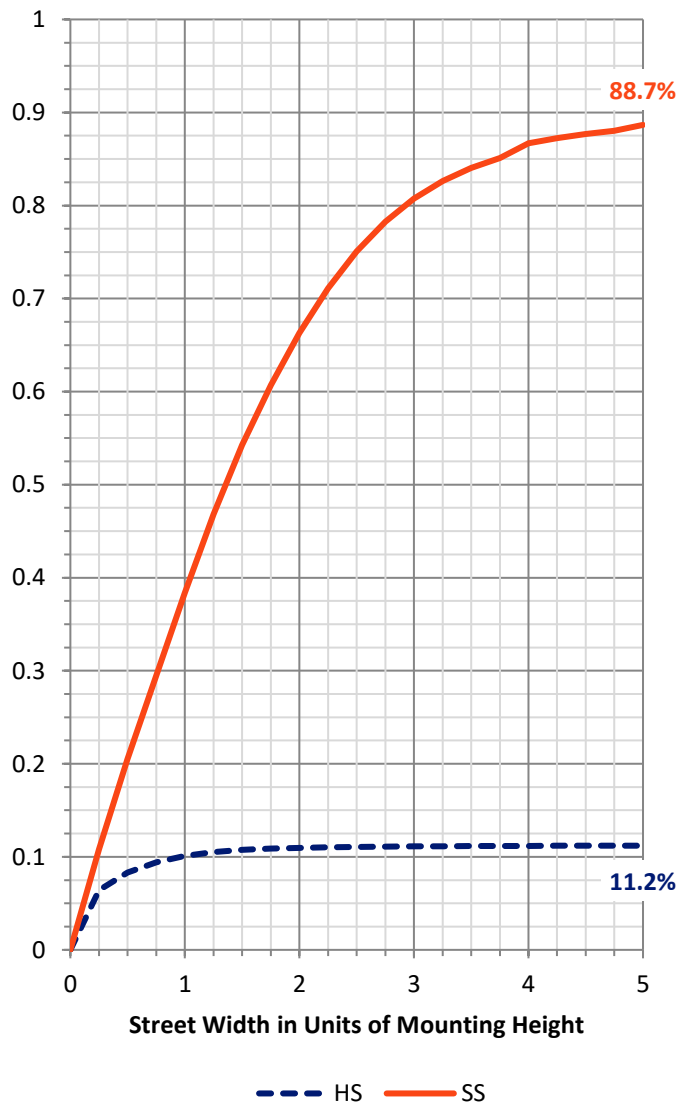
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5484.1	0.0	5484.1
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	43243.9	0.0	43243.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	48728.0	0.0	48728.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.3	1.2
10°-20°	1357.6	2.8
20°-30°	2205.4	4.5
30°-40°	3679.7	7.6
40°-50°	6962.1	14.3
50°-60°	11062.8	22.7
60°-70°	13685.5	28.1
70°-80°	8507.0	17.5
80°-90°	687.5	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°	48728.0	100.0
0°-180°	48728.0	100.0

**Coefficient of Utilization**



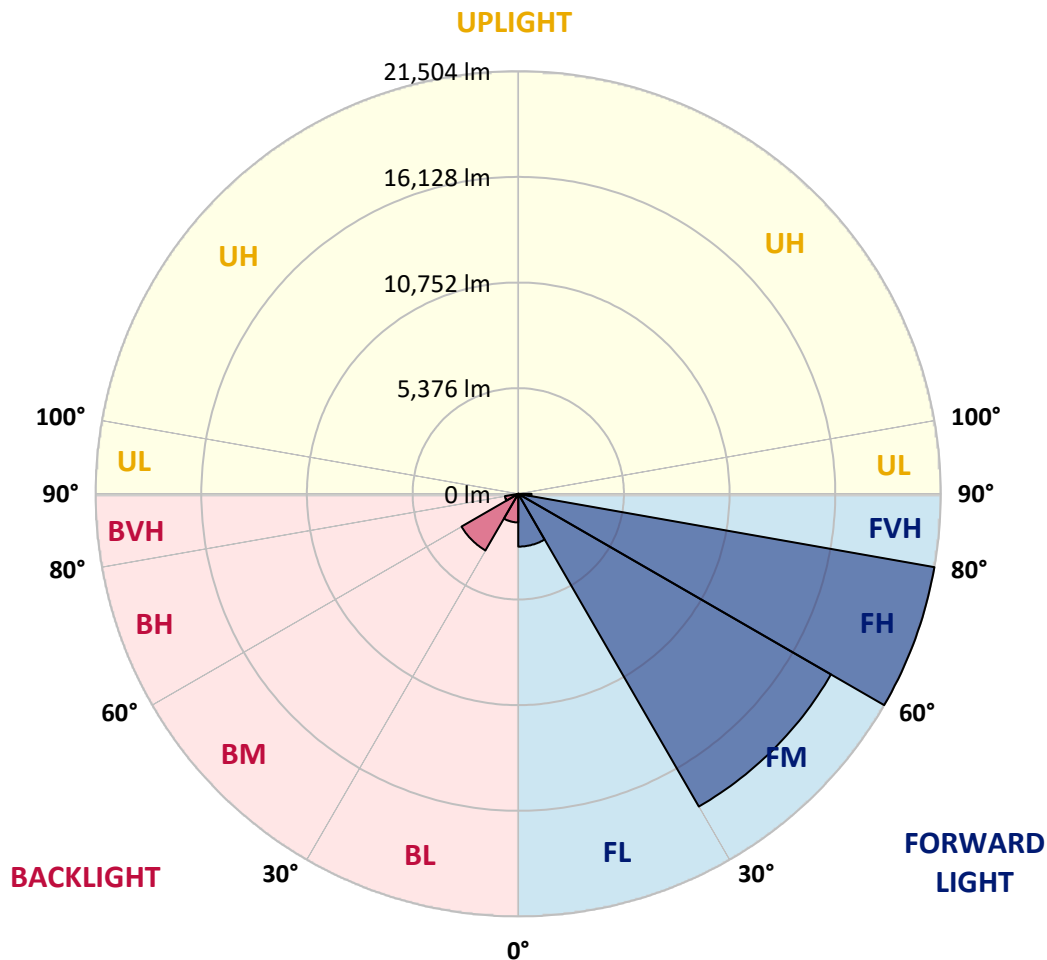
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2686.2	5.5			
FM	(30°-60°)	18375.3	37.7			
FH	(60°-80°)	21504.3	44.1			G5
FVH	(80°-90°)	678.1	1.4			G4/750
BL	(0°-30°)	1457.2	3.0	B3/2500		
BM	(30°-60°)	3329.3	6.8	B3/5000		
BH	(60°-80°)	688.2	1.4	B2/1000		G2/1000
BVH	(80°-90°)	9.4	0.0			G0/10
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°	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3
2.5°	6748.1	6805.2	6816.0	6833.8	6833.8	6855.2	6890.9	6940.9	7023.0	7065.9
5°	6219.7	6262.5	6316.1	6358.9	6441.1	6451.8	6591.0	6726.7	6915.9	7058.8
7.5°	5687.7	5737.7	5809.1	5912.6	6019.8	6051.9	6262.5	6491.1	6791.0	7058.8
10°	5312.8	5316.4	5380.6	5484.2	5655.6	5694.8	5951.9	6276.8	6651.7	7015.9
12.5°	5102.2	5127.1	5155.7	5234.3	5398.5	5423.5	5698.4	6080.5	6512.5	6990.9
15°	5102.2	5120.0	5137.9	5177.1	5309.2	5330.7	5573.4	5955.5	6441.1	7001.6
17.5°	5155.7	5184.3	5170.0	5216.4	5355.7	5369.9	5584.2	5919.8	6437.5	7069.5
20°	5284.2	5305.7	5277.1	5305.7	5444.9	5473.5	5694.8	5987.6	6498.2	7187.3
22.5°	5487.8	5498.5	5430.6	5452.1	5594.9	5630.6	5887.6	6180.4	6644.6	7376.5
25°	5744.8	5766.3	5662.7	5687.7	5823.4	5866.2	6162.6	6469.6	6876.7	7637.2
27.5°	6041.2	6051.9	5962.6	5959.1	6134.0	6194.7	6494.6	6826.7	7187.3	7965.6
30°	6380.4	6412.5	6326.8	6312.5	6533.9	6583.9	6880.2	7265.8	7644.3	8458.4
32.5°	6648.2	6673.1	6623.2	6658.9	6883.8	6923.1	7348.0	7887.1	8362.0	9158.2
35°	7033.8	7048.0	6933.8	6998.1	7255.1	7355.1	7987.1	8758.3	9265.3	10036.5
37.5°	8429.8	8429.8	7944.2	7626.4	7872.8	7962.1	8861.8	9854.4	10379.3	11214.7
40°	10361.4	10329.3	9618.8	8968.9	8936.8	9111.8	10107.9	11236.2	11818.1	12628.6
42.5°	12421.5	12371.6	11404.0	10761.3	10654.2	10714.9	11546.8	12939.3	13531.9	14353.1
45°	14249.6	14235.3	13349.9	12485.8	12293.0	12485.8	13342.7	14931.6	15356.4	16220.5
47.5°	15781.3	15781.3	15135.1	14570.9	14471.0	14585.2	15774.2	17141.7	17102.4	18209.2
50°	17545.1	17530.8	16916.7	16673.9	16777.5	16938.1	18573.4	19469.6	18909.0	20162.2
52.5°	18780.5	18866.2	18655.5	18616.2	19144.7	19423.2	21415.5	21747.5	20526.4	22015.3
55°	19758.8	19858.8	20101.6	20376.5	21394.0	21758.2	24168.3	23907.6	21879.6	23622.0
57.5°	21144.1	21001.3	21376.2	21918.9	23564.9	24004.0	26835.4	25946.4	22968.6	24925.2
60°	22825.8	22847.2	22911.5	23597.0	25732.1	26296.3	29463.2	27874.4	23668.4	25725.0
62.5°	24846.7	24878.8	25010.9	26064.2	28642.0	29174.0	32262.5	29452.5	23989.8	25500.0
65°	24707.4	24843.1	26317.7	29920.2	33065.8	33590.7	35529.4	30559.4	23504.2	23443.5
67.5°	22508.0	22729.4	25196.6	34526.1	39735.4	40320.9	39478.3	30777.2	21408.3	18230.6
70°	19623.1	19701.7	22668.7	38667.8	47458.2	48050.9	43013.0	28381.4	16245.5	10168.6
72.5°	15324.3	15342.2	18823.3	39628.3	51649.9	51682.1	40238.8	21069.1	8736.9	3906.1
75°	10947.0	10839.8	12607.2	32137.5	45440.9	45805.1	30166.6	9883.0	3338.4	1845.9
77.5°	5869.8	5987.6	7133.7	19059.0	31391.3	32012.5	16459.7	2849.2	1699.5	1256.8
80°	1813.8	1913.8	2924.2	8726.1	17780.8	18155.7	6101.9	1267.5	1185.4	896.2
82.5°	571.3	592.7	1363.9	3666.8	7380.1	7551.5	1767.4	717.7	810.5	592.7
85°	164.2	167.8	607.0	1367.5	1824.5	1860.2	496.3	278.5	464.2	367.8
87.5°	17.9	57.1	228.5	228.5	160.7	157.1	53.6	60.7	132.1	46.4
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°
7062.3	0°	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3	7062.3
7094.5	2.5°	7076.6	7080.2	7033.8	6955.2	6869.5	6798.1	6708.8	6637.4	6587.5	6573.2
7158.7	5°	7126.6	7101.6	6969.5	6730.3	6444.6	6198.3	5923.4	5705.6	5562.7	5502.0
7226.6	7.5°	7201.6	7130.2	6841.0	6369.7	5823.4	5337.8	4845.1	4463.0	4220.3	4098.9
7290.8	10°	7265.8	7123.0	6626.7	5848.4	5012.9	4277.4	3613.3	3152.7	2895.6	2774.2
7365.8	12.5°	7326.5	7119.4	6348.2	5230.7	4098.9	3199.1	2581.4	2352.9	2281.5	2256.5
7487.2	15°	7440.8	7130.2	5998.3	4523.7	3188.4	2417.2	2192.2	2188.7	2203.0	2195.8
7672.9	17.5°	7597.9	7140.9	5602.0	3774.0	2460.0	2131.5	2120.8	2153.0	2174.4	2163.7
7904.9	20°	7801.4	7183.7	5180.7	3031.3	2113.7	2060.1	2085.1	2113.7	2131.5	2113.7
8215.6	22.5°	8087.0	7258.7	4720.1	2435.0	2003.0	2017.3	2038.7	2070.9	2088.7	2063.7
8611.9	25°	8436.9	7376.5	4266.7	2117.3	1949.5	1967.3	1999.4	2035.1	2056.6	2031.6
9111.8	27.5°	8890.4	7565.8	3848.9	2045.9	1895.9	1906.6	1953.0	2006.6	2035.1	2003.0
9822.3	30°	9547.3	7876.4	3488.3	2078.0	1863.8	1838.8	1903.0	1978.0	2010.2	1981.6
10789.9	32.5°	10418.5	8315.5	3266.9	2128.0	1849.5	1760.2	1820.9	1917.3	1970.9	1953.0
12053.8	35°	11561.1	8983.2	3181.3	2185.1	1838.8	1678.1	1720.9	1824.5	1917.3	1935.2
13646.2	37.5°	12946.4	9911.5	3206.3	2210.1	1806.6	1610.3	1631.7	1720.9	1842.3	1899.5
15438.6	40°	14521.0	10993.4	3349.1	2185.1	1770.9	1553.1	1556.7	1624.5	1731.7	1817.4
17366.6	42.5°	16145.5	12257.3	3613.3	2092.3	1738.8	1503.2	1492.4	1538.9	1610.3	1671.0
19291.1	45°	17691.5	13556.9	3873.9	1963.7	1699.5	1453.2	1428.2	1446.0	1460.3	1485.3
21165.5	47.5°	19041.1	14471.0	3798.9	1845.9	1646.0	1396.0	1353.2	1346.1	1303.2	1299.6
22840.1	50°	19973.0	14670.9	3374.1	1728.1	1567.4	1331.8	1263.9	1221.1	1146.1	1110.4
24093.3	52.5°	20269.4	13881.9	2756.4	1610.3	1438.9	1246.1	1149.7	1081.8	989.0	956.9
24814.5	55°	19876.6	12335.9	2203.0	1467.4	1260.4	1131.8	1024.7	935.5	860.5	821.2
24893.1	57.5°	18916.2	10368.5	1742.4	1299.6	1071.1	1003.3	896.2	806.9	742.7	703.4
24021.9	60°	17323.8	8233.4	1378.2	1099.7	914.0	864.0	753.4	696.2	639.1	592.7
21772.5	62.5°	14906.6	5876.9	1081.8	871.2	764.1	706.9	642.7	599.8	532.0	467.7
17727.2	65°	11632.5	3595.4	835.5	639.1	614.1	585.6	546.3	507.0	424.9	360.6
11564.6	67.5°	7337.2	1703.1	596.3	482.0	485.6	471.3	453.4	421.3	360.6	303.5
5180.7	70°	3231.2	824.8	392.7	367.8	360.6	360.6	374.9	364.2	307.1	253.5
1799.5	72.5°	1099.7	442.7	292.8	278.5	260.6	257.1	314.2	303.5	246.4	196.4
896.2	75°	574.8	296.3	214.2	199.9	157.1	189.2	249.9	235.6	175.0	128.5
592.7	77.5°	374.9	210.7	146.4	128.5	89.3	125.0	185.7	164.2	103.5	64.3
389.2	80°	235.6	139.2	85.7	60.7	42.8	67.8	100.0	71.4	39.3	14.3
228.5	82.5°	125.0	71.4	32.1	21.4	17.9	21.4	25.0	17.9	7.1	0.0
117.8	85°	50.0	25.0	10.7	7.1	3.6	0.0	7.1	3.6	0.0	0.0
21.4	87.5°	17.9	3.6	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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<u>180°</u>
7062.3
6598.2
5523.5
4116.7
2777.8
2249.4
2192.2
2160.1
2110.1
2060.1
2028.0
2003.0
1978.0
1953.0
1935.2
1913.8
1845.9
1696.0
1499.6
1296.1
1114.0
953.3
821.2
696.2
582.0
457.0
349.9
296.3
242.8
185.7
117.8
57.1
10.7
0.0
0.0
0.0
0.0

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