

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: P848355

Luminaire Tested: **GLAN-SB4D-850-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848355
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-SB4D-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 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: 25571 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

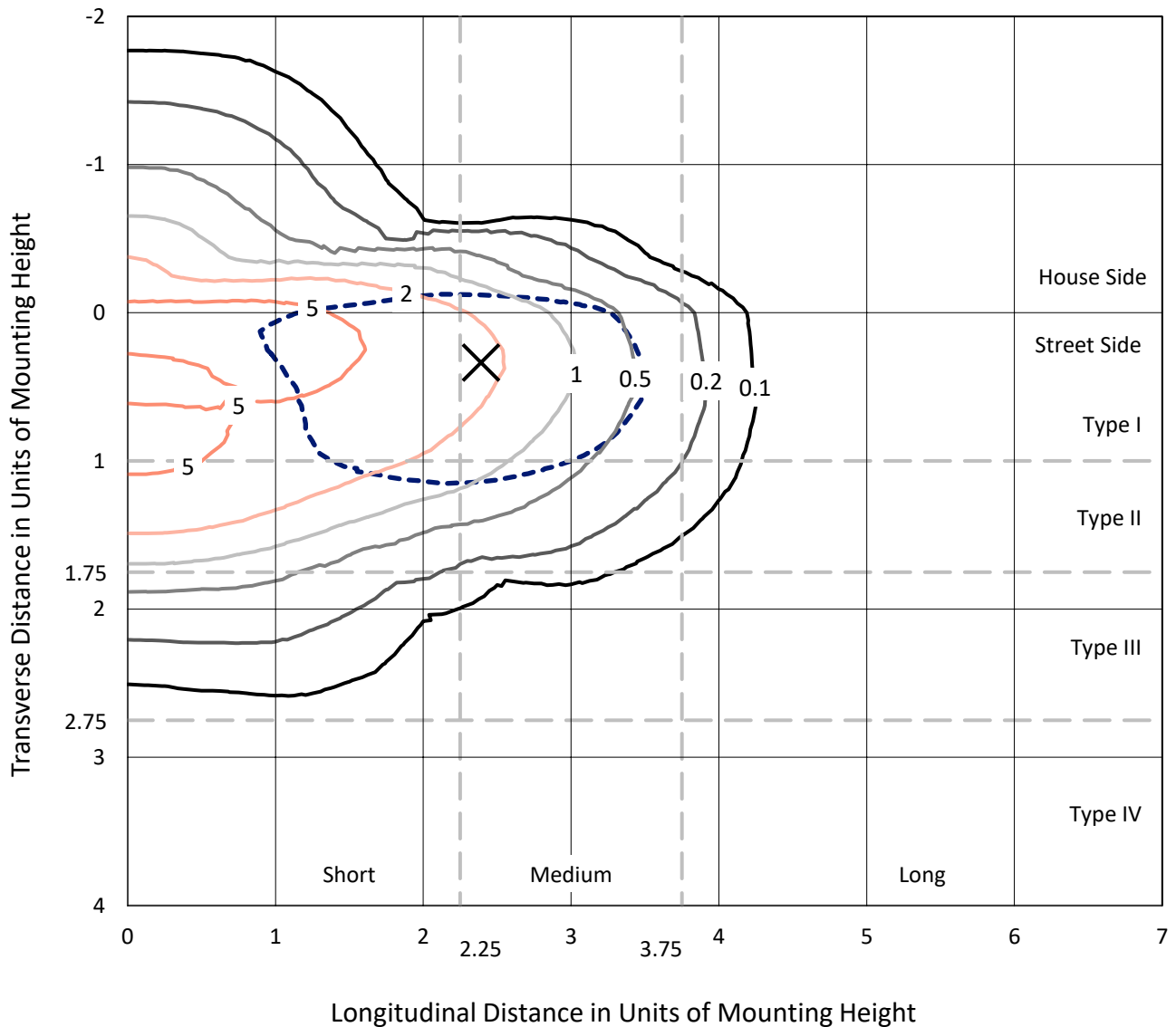
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

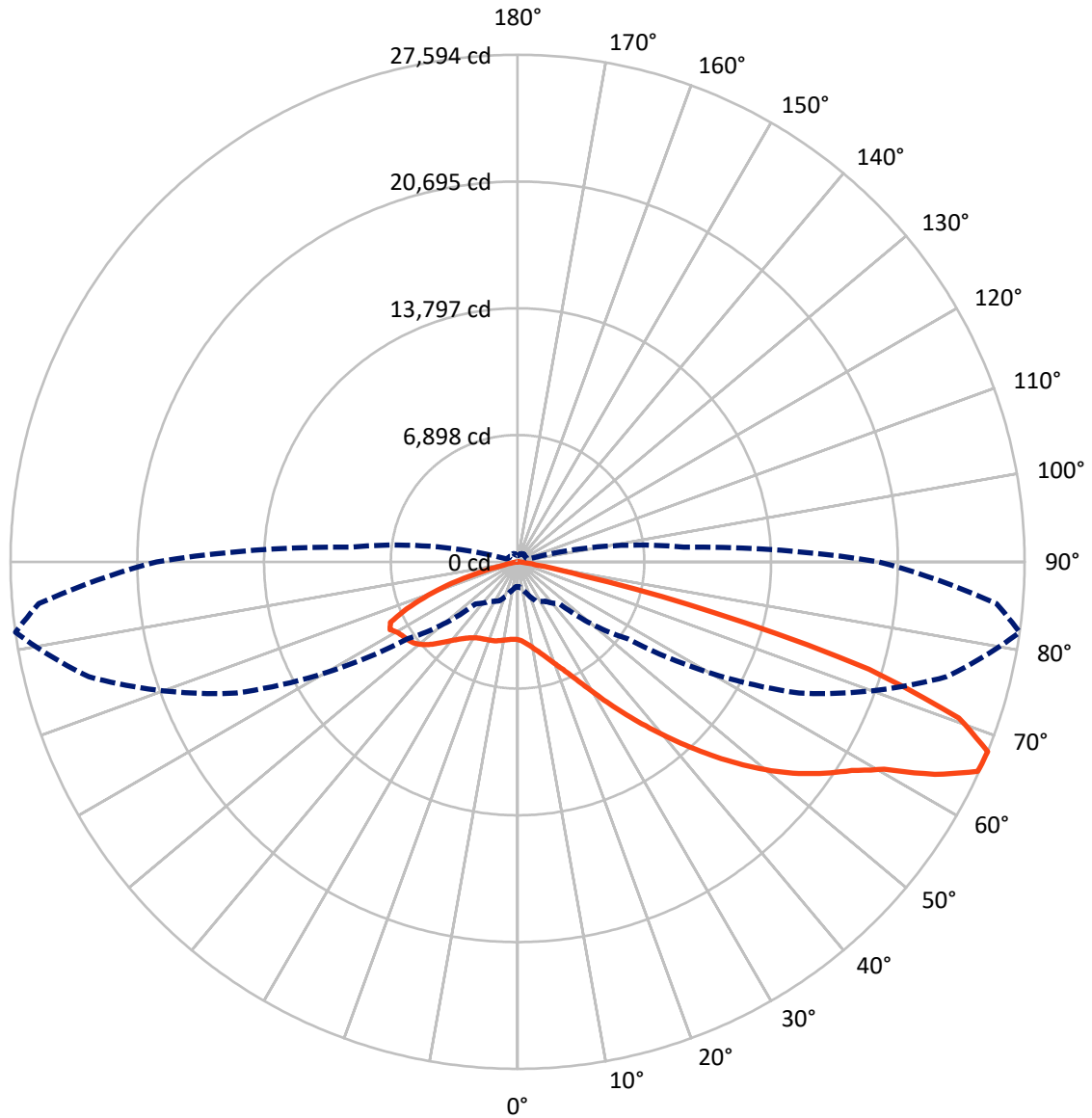
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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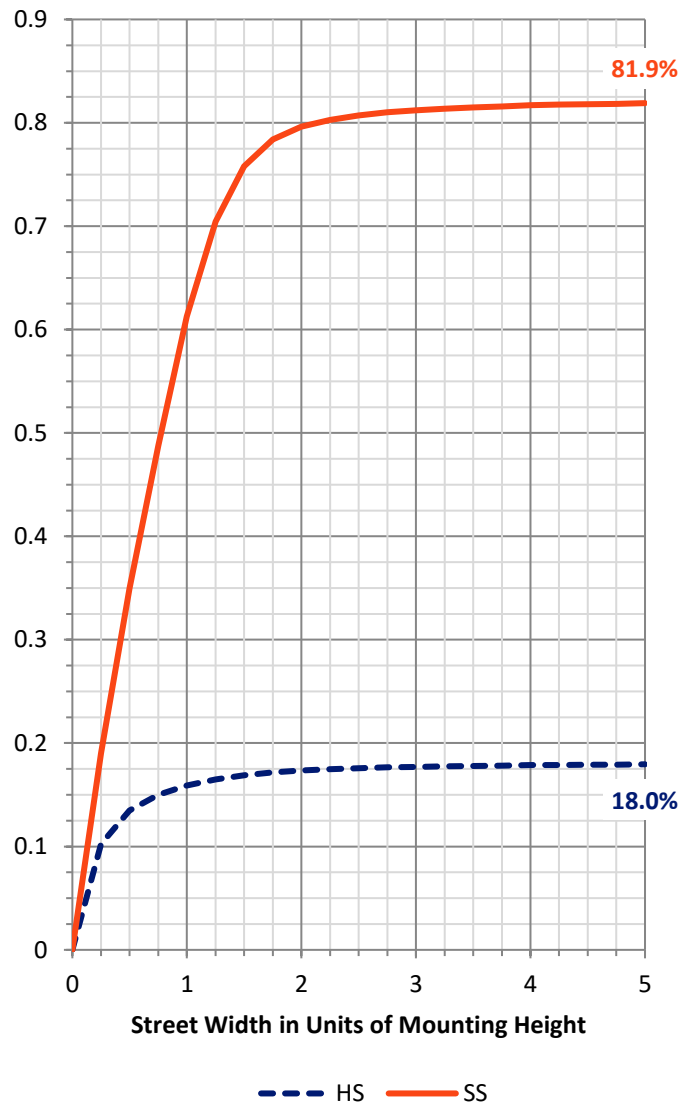
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4632.0	0.0	4632.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20939.0	0.0	20939.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	25571.0	0.0	25571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.4	1.5
10°-20°	980.8	3.8
20°-30°	1570.9	6.1
30°-40°	2777.8	10.9
40°-50°	4866.9	19.0
50°-60°	6491.1	25.4
60°-70°	6042.9	23.6
70°-80°	2319.3	9.1
80°-90°	144.0	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°	25571.0	100.0
0°-180°	25571.0	100.0

Coefficient of Utilization

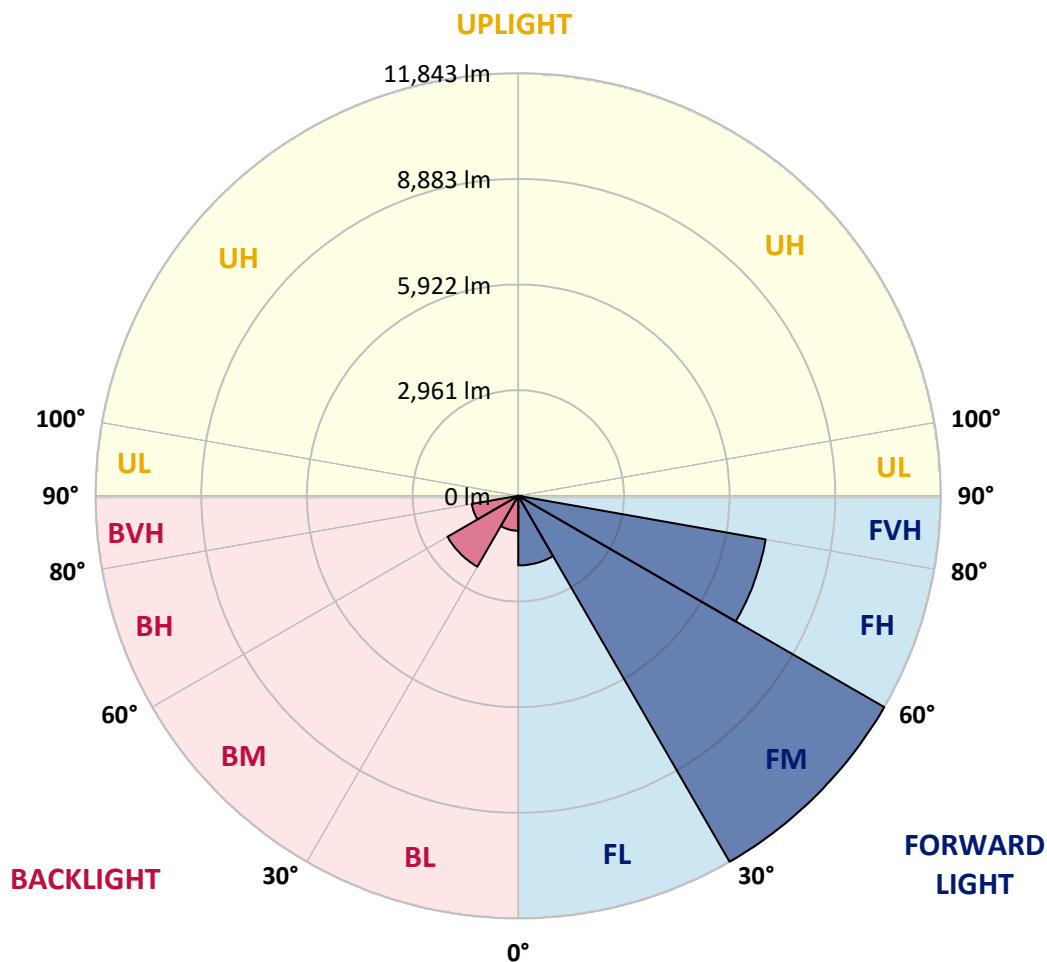


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.8	7.6			
FM (30°-60°)	11843.4	46.3			
FH (60°-80°)	7040.1	27.5			G3/7500
FVH (80°-90°)	104.7	0.4			G2/225
BL (0°-30°)	978.3	3.8	B2/1000		
BM (30°-60°)	2292.3	9.0	B2/2500		
BH (60°-80°)	1322.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	39.3	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-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2
2.5°	4477.4	4503.2	4488.5	4481.1	4468.2	4449.8	4435.1	4389.1	4341.2	4309.9
5°	4567.6	4593.4	4591.6	4598.9	4608.1	4613.7	4610.0	4558.4	4490.3	4436.9
7.5°	4490.3	4519.8	4543.7	4580.5	4645.0	4713.1	4746.2	4735.2	4665.2	4591.6
10°	4271.2	4302.5	4359.6	4446.1	4582.4	4729.6	4853.0	4910.1	4865.9	4784.9
12.5°	3869.9	3901.2	4013.5	4201.3	4429.6	4685.5	4921.1	5073.9	5085.0	5004.0
15°	3418.8	3450.1	3569.8	3805.4	4153.4	4564.0	4957.9	5247.0	5344.6	5274.6
17.5°	3139.0	3166.6	3256.8	3446.4	3809.1	4320.9	4945.1	5431.1	5653.9	5598.6
20°	3054.3	3078.2	3120.6	3253.1	3555.1	4068.7	4860.4	5604.1	5987.1	5955.8
22.5°	3144.5	3166.6	3179.5	3238.4	3428.0	3903.0	4753.6	5780.9	6373.7	6377.4
25°	3352.5	3374.6	3359.9	3396.7	3479.6	3851.5	4713.1	5988.9	6859.7	6900.2
27.5°	3695.0	3696.8	3661.8	3660.0	3672.9	3928.8	4755.4	6211.7	7472.8	7548.3
30°	4381.7	4354.1	4219.7	4074.2	4008.0	4160.8	4873.3	6475.0	8196.3	8330.7
32.5°	5440.3	5399.8	5153.1	4805.1	4455.3	4534.5	5085.0	6775.1	8984.3	9227.3
35°	6589.1	6578.1	6320.3	5803.0	5191.8	5066.6	5429.2	7169.0	9844.1	10230.7
37.5°	7656.9	7651.4	7504.1	6894.7	6150.9	5808.5	5981.6	7684.5	10764.6	11324.3
40°	8632.7	8649.2	8502.0	7957.0	7207.7	6760.3	6732.7	8321.5	11788.2	12515.4
42.5°	9475.9	9494.3	9345.2	8942.0	8251.6	7813.4	7655.1	9102.1	12787.9	13795.0
45°	10048.4	10162.6	10140.5	9818.3	9323.1	8868.3	8763.4	10081.6	13927.5	15151.8
47.5°	10210.4	10315.4	10481.1	10525.3	10223.3	9776.0	9901.2	11261.7	15080.0	16510.5
50°	9810.9	9908.5	10252.8	10711.2	10921.1	10783.0	11007.6	12526.5	16260.1	17865.5
52.5°	9023.0	9122.4	9556.9	10282.2	11138.3	11572.8	12117.8	13772.9	17403.4	19148.7
55°	7883.4	7988.3	8546.1	9367.2	10724.1	11898.7	13043.8	15017.4	18451.0	20303.1
57.5°	6333.2	6410.5	6990.5	8139.3	9682.1	11574.7	13726.8	16376.1	19437.8	21437.2
60°	4127.6	4195.7	4869.6	6150.9	7955.2	10492.1	13863.1	17891.3	20748.6	22911.8
62.5°	2745.0	2791.0	3190.5	4131.3	5602.3	8413.6	13065.9	19100.9	22670.7	25478.3
65°	1883.4	1929.4	2328.9	2984.3	3619.5	5565.5	10773.8	18940.7	24412.3	27516.3
67.5°	1344.0	1382.6	1721.4	2340.0	2619.8	3232.9	7303.4	16893.4	24161.9	27593.6
70°	962.9	985.0	1264.8	1822.6	2082.2	1942.3	4061.3	12920.5	21155.5	25480.1
72.5°	673.8	681.2	878.2	1388.1	1677.2	1417.6	1933.1	8614.3	16000.5	19999.3
75°	456.6	465.8	591.0	1018.1	1345.8	1082.5	1023.6	4619.2	9393.0	11070.2
77.5°	279.8	283.5	381.1	695.9	1007.1	824.8	659.1	1957.0	3634.2	3567.9
80°	158.3	158.3	243.0	432.6	686.7	532.1	462.1	832.2	1150.7	1010.7
82.5°	88.4	90.2	176.7	268.8	454.7	314.8	254.1	384.8	497.1	440.0
85°	36.8	40.5	108.6	127.0	217.2	156.5	103.1	162.0	184.1	163.9
87.5°	3.7	5.5	33.1	23.9	25.8	31.3	14.7	31.3	25.8	25.8
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°
4236.2	0°	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2	4236.2
4298.8	2.5°	4263.9	4236.2	4166.3	4085.3	3978.5	3927.0	3857.0	3809.1	3768.6	3772.3
4405.6	5°	4346.7	4276.8	4120.3	3925.1	3682.1	3509.0	3324.9	3197.9	3094.8	3072.7
4552.9	7.5°	4460.9	4350.4	4076.1	3724.4	3313.9	3002.7	2724.7	2546.2	2419.1	2378.6
4731.5	10°	4608.1	4448.0	4019.0	3472.2	2881.2	2485.4	2187.2	2047.2	1960.7	1931.3
4941.4	12.5°	4779.4	4560.3	3943.5	3164.8	2435.7	2054.6	1865.0	1795.0	1767.4	1758.2
5199.1	15°	4994.8	4700.2	3829.4	2800.2	2058.3	1791.3	1710.3	1701.1	1704.8	1701.1
5508.4	17.5°	5250.7	4853.0	3643.4	2424.7	1804.2	1656.9	1627.5	1634.8	1644.1	1642.2
5854.5	20°	5530.5	5004.0	3405.9	2091.4	1631.2	1561.2	1544.6	1552.0	1559.4	1555.7
6254.0	22.5°	5849.0	5166.0	3142.7	1831.8	1515.2	1472.8	1454.4	1456.3	1456.3	1448.9
6760.3	25°	6230.1	5344.6	2866.5	1647.7	1426.8	1393.7	1371.6	1364.2	1353.2	1331.1
7375.2	27.5°	6684.8	5534.2	2601.4	1518.9	1356.9	1325.6	1299.8	1281.4	1253.8	1216.9
8113.5	30°	7196.7	5764.3	2376.8	1437.9	1301.6	1270.3	1240.9	1213.3	1172.7	1126.7
8962.2	32.5°	7798.7	6011.0	2212.9	1384.5	1251.9	1218.8	1183.8	1150.7	1106.5	1060.4
9915.9	35°	8516.7	6309.3	2117.2	1347.6	1213.3	1169.1	1130.4	1093.6	1060.4	1019.9
10952.4	37.5°	9295.4	6625.9	2087.7	1329.2	1187.5	1119.4	1075.2	1049.4	1045.7	1021.8
12073.6	40°	10147.9	7001.5	2109.8	1318.2	1159.9	1071.5	1023.6	1018.1	1027.3	985.0
13272.1	42.5°	11050.0	7447.0	2146.7	1305.3	1121.2	1023.6	977.6	977.6	970.2	911.3
14538.7	45°	12025.7	7960.7	2183.5	1274.0	1075.2	975.8	940.8	927.9	896.6	839.5
15812.8	47.5°	13008.8	8483.5	2211.1	1216.9	1019.9	935.3	904.0	874.5	828.5	776.9
17062.8	50°	13942.2	8953.0	2181.6	1132.2	957.3	896.6	863.5	822.9	773.2	738.3
18246.6	52.5°	14776.2	9359.9	2056.4	1032.8	891.1	856.1	826.6	784.3	743.8	707.0
19314.4	55°	15501.6	9689.4	1835.5	938.9	832.2	821.1	791.7	738.3	683.0	651.7
20373.0	57.5°	16197.5	9939.8	1559.4	861.6	778.8	782.4	738.3	690.4	638.8	605.7
21799.8	60°	17123.6	10274.9	1279.5	789.8	721.7	732.7	684.9	649.9	585.5	543.1
24246.6	62.5°	18603.8	10795.9	1016.3	701.4	655.4	659.1	638.8	596.5	519.2	469.5
26060.0	65°	19778.4	10604.4	800.9	605.7	579.9	585.5	585.5	539.4	456.6	399.5
26157.6	67.5°	19645.8	9080.0	638.8	511.8	508.1	511.8	524.7	486.0	405.0	359.0
24165.6	70°	18097.5	7222.4	511.8	425.3	441.9	432.6	469.5	443.7	364.5	318.5
18734.5	72.5°	14767.0	5202.8	390.3	351.6	338.8	353.5	423.4	399.5	303.8	252.2
9923.2	75°	8629.0	2776.3	290.9	278.0	244.9	294.6	375.6	340.6	232.0	185.9
3041.4	77.5°	2809.4	968.4	213.6	204.4	182.3	237.5	320.3	287.2	189.6	147.3
891.1	80°	753.0	292.7	145.4	134.4	117.8	176.7	254.1	228.3	136.2	95.7
382.9	82.5°	301.9	123.4	84.7	75.5	64.4	121.5	200.7	184.1	101.3	60.8
119.7	85°	97.6	40.5	31.3	23.9	29.5	75.5	119.7	125.2	71.8	31.3
18.4	87.5°	12.9	5.5	5.5	7.4	5.5	12.9	36.8	35.0	20.3	3.7
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°
4236.2
3735.5
3023.0
2338.1
1909.2
1752.7
1699.3
1638.5
1553.8
1445.2
1327.4
1213.3
1123.0
1062.3
1016.3
1019.9
986.8
911.3
837.7
775.1
732.7
703.3
648.0
602.0
537.6
465.8
394.0
351.6
313.0
246.7
180.4
141.8
93.9
60.8
23.9
0.0
0.0

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