

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: P847975

Luminaire Tested: **GLAN-SB4B-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847975
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-SB4B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA 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: 13139 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

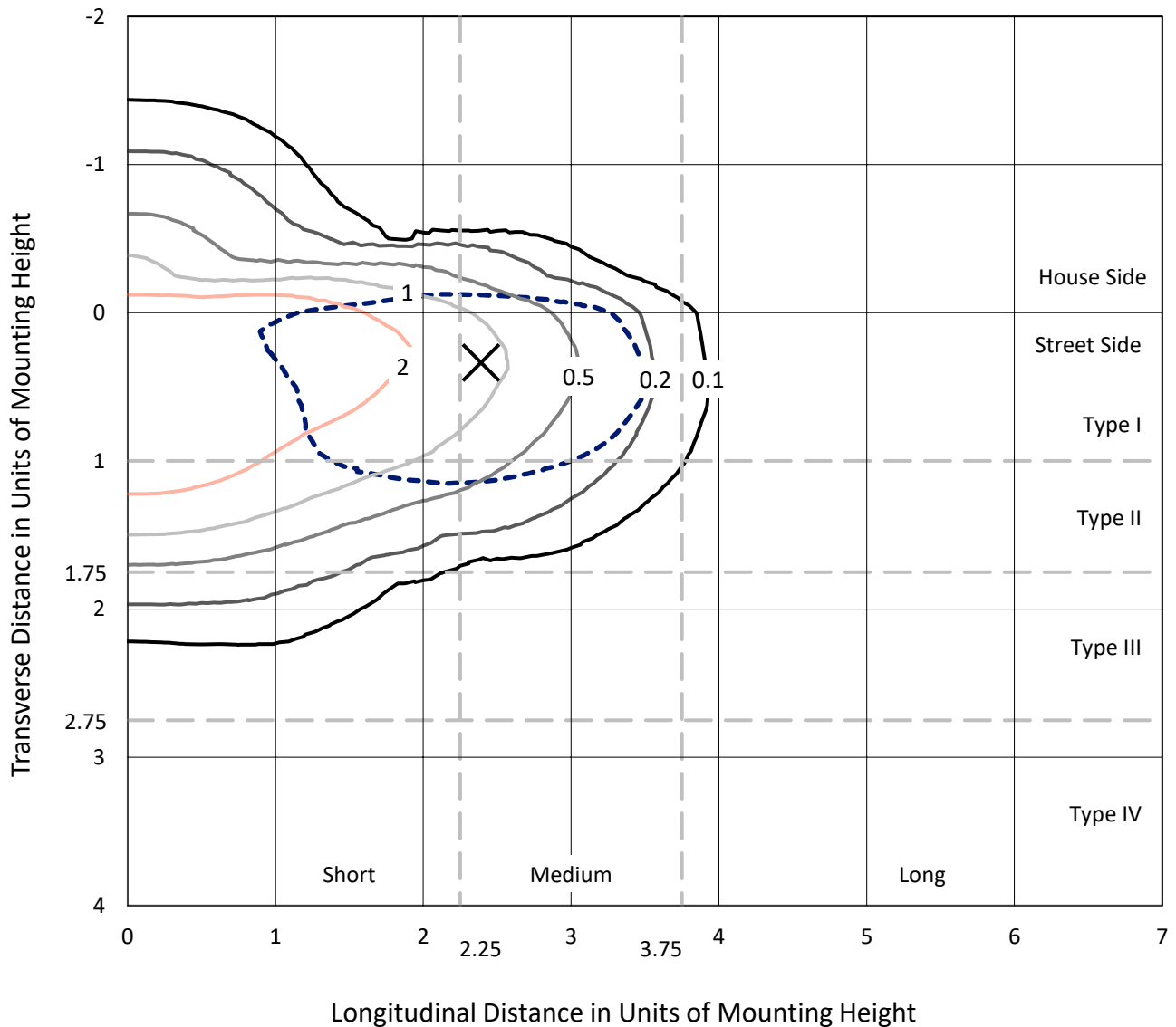
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

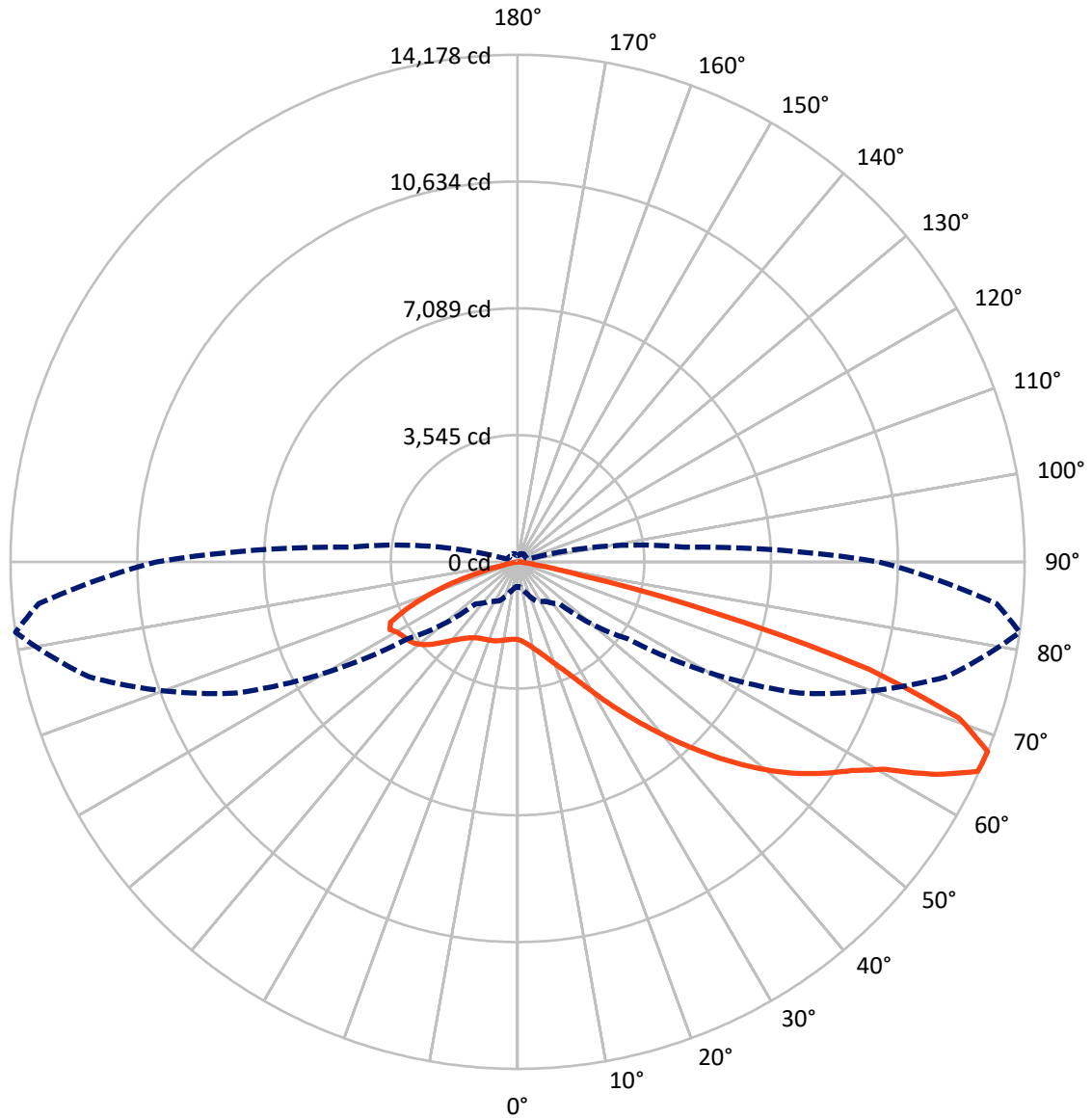
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2380.0	0.0	2380.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10759.0	0.0	10759.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	13139.0	0.0	13139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.5
10°-20°	503.9	3.8
20°-30°	807.1	6.1
30°-40°	1427.3	10.9
40°-50°	2500.7	19.0
50°-60°	3335.3	25.4
60°-70°	3105.0	23.6
70°-80°	1191.7	9.1
80°-90°	74.0	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°	13139.0	100.0
0°-180°	13139.0	100.0

Coefficient of Utilization

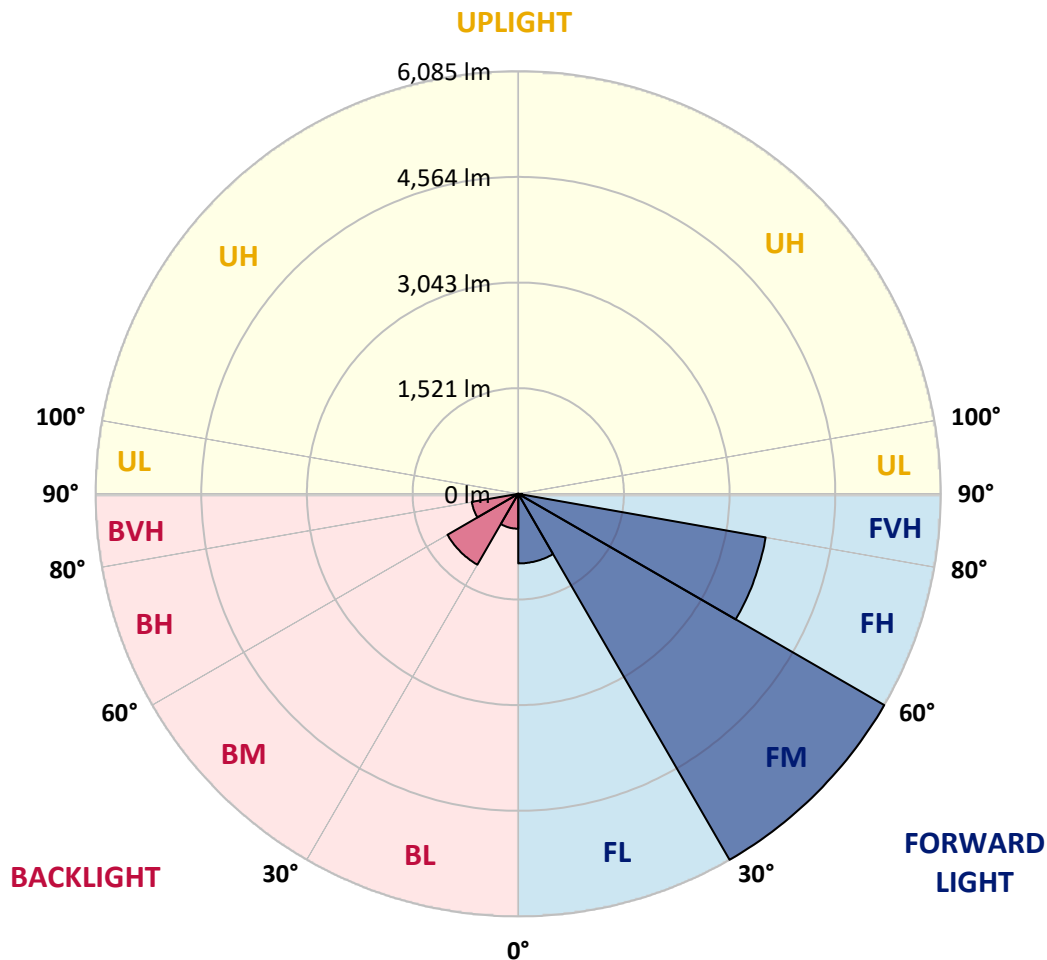


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.4	7.6			
FM (30°-60°)	6085.4	46.3			
FH (60°-80°)	3617.4	27.5			G2/5000
FVH (80°-90°)	53.8	0.4			G1/100
BL (0°-30°)	502.7	3.8	B2/1000		
BM (30°-60°)	1177.9	9.0	B2/2500		
BH (60°-80°)	679.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	20.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	2300.6	2313.9	2306.3	2302.5	2295.9	2286.4	2278.9	2255.2	2230.6	2214.5
5°	2347.0	2360.2	2359.3	2363.0	2367.8	2370.6	2368.7	2342.2	2307.2	2279.8
7.5°	2307.2	2322.4	2334.7	2353.6	2386.7	2421.7	2438.7	2433.0	2397.1	2359.3
10°	2194.7	2210.7	2240.1	2284.5	2354.5	2430.2	2493.6	2522.9	2500.2	2458.6
12.5°	1988.4	2004.5	2062.2	2158.7	2276.0	2407.5	2528.6	2607.1	2612.8	2571.2
15°	1756.7	1772.8	1834.2	1955.3	2134.1	2345.1	2547.5	2696.0	2746.2	2710.2
17.5°	1612.9	1627.1	1673.4	1770.9	1957.2	2220.2	2540.9	2790.6	2905.1	2876.7
20°	1569.4	1581.7	1603.4	1671.5	1826.7	2090.6	2497.4	2879.5	3076.3	3060.2
22.5°	1615.7	1627.1	1633.7	1664.0	1761.4	2005.5	2442.5	2970.4	3275.0	3276.9
25°	1722.6	1734.0	1726.4	1745.3	1787.9	1979.0	2421.7	3077.3	3524.7	3545.5
27.5°	1898.6	1899.5	1881.5	1880.6	1887.2	2018.7	2443.5	3191.7	3839.7	3878.5
30°	2251.4	2237.2	2168.2	2093.4	2059.4	2137.9	2504.0	3327.0	4211.5	4280.5
32.5°	2795.4	2774.5	2647.8	2469.0	2289.3	2329.9	2612.8	3481.2	4616.4	4741.2
35°	3385.6	3380.0	3247.5	2981.7	2667.6	2603.3	2789.7	3683.6	5058.1	5256.8
37.5°	3934.3	3931.5	3855.8	3542.7	3160.5	2984.6	3073.5	3948.5	5531.1	5818.7
40°	4435.7	4444.2	4368.5	4088.5	3703.5	3473.6	3459.4	4275.8	6057.1	6430.7
42.5°	4868.9	4878.4	4801.8	4594.6	4239.9	4014.7	3933.4	4676.9	6570.7	7088.2
45°	5163.1	5221.8	5210.4	5044.9	4790.4	4556.8	4502.8	5180.2	7156.3	7785.4
47.5°	5246.4	5300.3	5385.4	5408.1	5253.0	5023.1	5087.5	5786.5	7748.5	8483.5
50°	5041.1	5091.2	5268.1	5503.7	5611.5	5540.6	5656.0	6436.4	8354.8	9179.7
52.5°	4636.2	4687.3	4910.6	5283.3	5723.1	5946.4	6226.4	7076.8	8942.3	9839.1
55°	4050.7	4104.6	4391.2	4813.1	5510.3	6113.8	6702.2	7716.3	9480.6	10432.2
57.5°	3254.2	3293.9	3591.9	4182.2	4974.9	5947.3	7053.2	8414.4	9987.6	11014.9
60°	2120.9	2155.9	2502.1	3160.5	4087.6	5391.1	7123.2	9193.0	10661.1	11772.7
62.5°	1410.4	1434.1	1639.4	2122.8	2878.6	4323.1	6713.6	9814.5	11648.7	13091.3
65°	967.7	991.4	1196.7	1533.4	1859.8	2859.7	5535.8	9732.2	12543.6	14138.5
67.5°	690.6	710.4	884.5	1202.3	1346.1	1661.1	3752.7	8680.3	12415.0	14178.3
70°	494.7	506.1	649.9	936.5	1069.9	998.0	2086.8	6638.9	10870.2	13092.3
72.5°	346.2	350.0	451.2	713.3	861.8	728.4	993.3	4426.2	8221.5	10276.1
75°	234.6	239.3	303.7	523.1	691.5	556.2	526.0	2373.5	4826.4	5688.1
77.5°	143.8	145.7	195.8	357.6	517.4	423.8	338.7	1005.6	1867.4	1833.3
80°	81.4	81.4	124.9	222.3	352.8	273.4	237.4	427.6	591.2	519.3
82.5°	45.4	46.4	90.8	138.1	233.7	161.8	130.5	197.7	255.4	226.1
85°	18.9	20.8	55.8	65.3	111.6	80.4	53.0	83.2	94.6	84.2
87.5°	1.9	2.8	17.0	12.3	13.2	16.1	7.6	16.1	13.2	13.2
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°
2176.7	0°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2208.9	2.5°	2190.9	2176.7	2140.7	2099.1	2044.3	2017.8	1981.8	1957.2	1936.4	1938.3
2263.7	5°	2233.4	2197.5	2117.1	2016.8	1891.9	1803.0	1708.4	1643.2	1590.2	1578.8
2339.4	7.5°	2292.1	2235.3	2094.4	1913.7	1702.8	1542.9	1400.0	1308.3	1243.0	1222.2
2431.2	10°	2367.8	2285.5	2065.1	1784.1	1480.5	1277.1	1123.8	1051.9	1007.5	992.3
2539.0	12.5°	2455.8	2343.2	2026.3	1626.1	1251.5	1055.7	958.3	922.3	908.1	903.4
2671.4	15°	2566.4	2415.1	1967.6	1438.8	1057.6	920.4	878.8	874.1	876.0	874.1
2830.4	17.5°	2697.9	2493.6	1872.1	1245.8	927.1	851.4	836.2	840.0	844.8	843.8
3008.2	20°	2841.7	2571.2	1750.1	1074.6	838.1	802.2	793.7	797.5	801.2	799.3
3213.5	22.5°	3005.4	2654.4	1614.8	941.2	778.5	756.8	747.3	748.3	748.3	744.5
3473.6	25°	3201.2	2746.2	1472.9	846.6	733.1	716.1	704.8	701.0	695.3	683.9
3789.6	27.5°	3434.8	2843.6	1336.7	780.4	697.2	681.1	667.9	658.4	644.2	625.3
4168.9	30°	3697.8	2961.8	1221.3	738.8	668.8	652.7	637.6	623.4	602.6	578.9
4605.0	32.5°	4007.1	3088.6	1137.1	711.4	643.3	626.2	608.3	591.2	568.5	544.9
5095.0	35°	4376.1	3241.9	1087.9	692.5	623.4	600.7	580.8	561.9	544.9	524.1
5627.6	37.5°	4776.2	3404.6	1072.7	683.0	610.2	575.2	552.4	539.2	537.3	525.0
6203.7	40°	5214.2	3597.5	1084.1	677.3	596.0	550.6	526.0	523.1	527.9	506.1
6819.5	42.5°	5677.7	3826.5	1103.0	670.7	576.1	526.0	502.3	502.3	498.5	468.3
7470.4	45°	6179.1	4090.4	1121.9	654.6	552.4	501.4	483.4	476.8	460.7	431.4
8125.0	47.5°	6684.3	4359.1	1136.1	625.3	524.1	480.6	464.5	449.3	425.7	399.2
8767.3	50°	7163.9	4600.3	1121.0	581.8	491.9	460.7	443.7	422.9	397.3	379.3
9375.6	52.5°	7592.4	4809.3	1056.7	530.7	457.9	439.9	424.7	403.0	382.2	363.3
9924.2	55°	7965.1	4978.7	943.1	482.4	427.6	421.9	406.8	379.3	351.0	334.9
10468.2	57.5°	8322.7	5107.3	801.2	442.7	400.1	402.0	379.3	354.7	328.3	311.2
11201.3	60°	8798.5	5279.5	657.5	405.8	370.8	376.5	351.9	333.9	300.8	279.1
12458.5	62.5°	9559.1	5547.2	522.2	360.4	336.8	338.7	328.3	306.5	266.8	241.2
13390.3	65°	10162.6	5448.8	411.5	311.2	298.0	300.8	300.8	277.2	234.6	205.3
13440.4	67.5°	10094.5	4665.5	328.3	263.0	261.1	263.0	269.6	249.7	208.1	184.5
12416.9	70°	9298.9	3711.1	263.0	218.5	227.0	222.3	241.2	228.0	187.3	163.7
9626.2	72.5°	7587.7	2673.3	200.5	180.7	174.1	181.6	217.6	205.3	156.1	129.6
5098.8	75°	4433.8	1426.5	149.5	142.8	125.8	151.4	193.0	175.0	119.2	95.5
1562.8	77.5°	1443.6	497.6	109.7	105.0	93.7	122.0	164.6	147.6	97.4	75.7
457.9	80°	386.9	150.4	74.7	69.1	60.5	90.8	130.5	117.3	70.0	49.2
196.8	82.5°	155.1	63.4	43.5	38.8	33.1	62.4	103.1	94.6	52.0	31.2
61.5	85°	50.1	20.8	16.1	12.3	15.1	38.8	61.5	64.3	36.9	16.1
9.5	87.5°	6.6	2.8	2.8	3.8	2.8	6.6	18.9	18.0	10.4	1.9
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°
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2176.7
1919.4
1553.3
1201.4
981.0
900.6
873.1
841.9
798.4
742.6
682.0
623.4
577.0
545.8
522.2
524.1
507.0
468.3
430.4
398.3
376.5
361.4
333.0
309.3
276.2
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202.4
180.7
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72.8
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