

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: P852578

Luminaire Tested: **GLAN-SB4D-840-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852578
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-SB4D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 27461 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

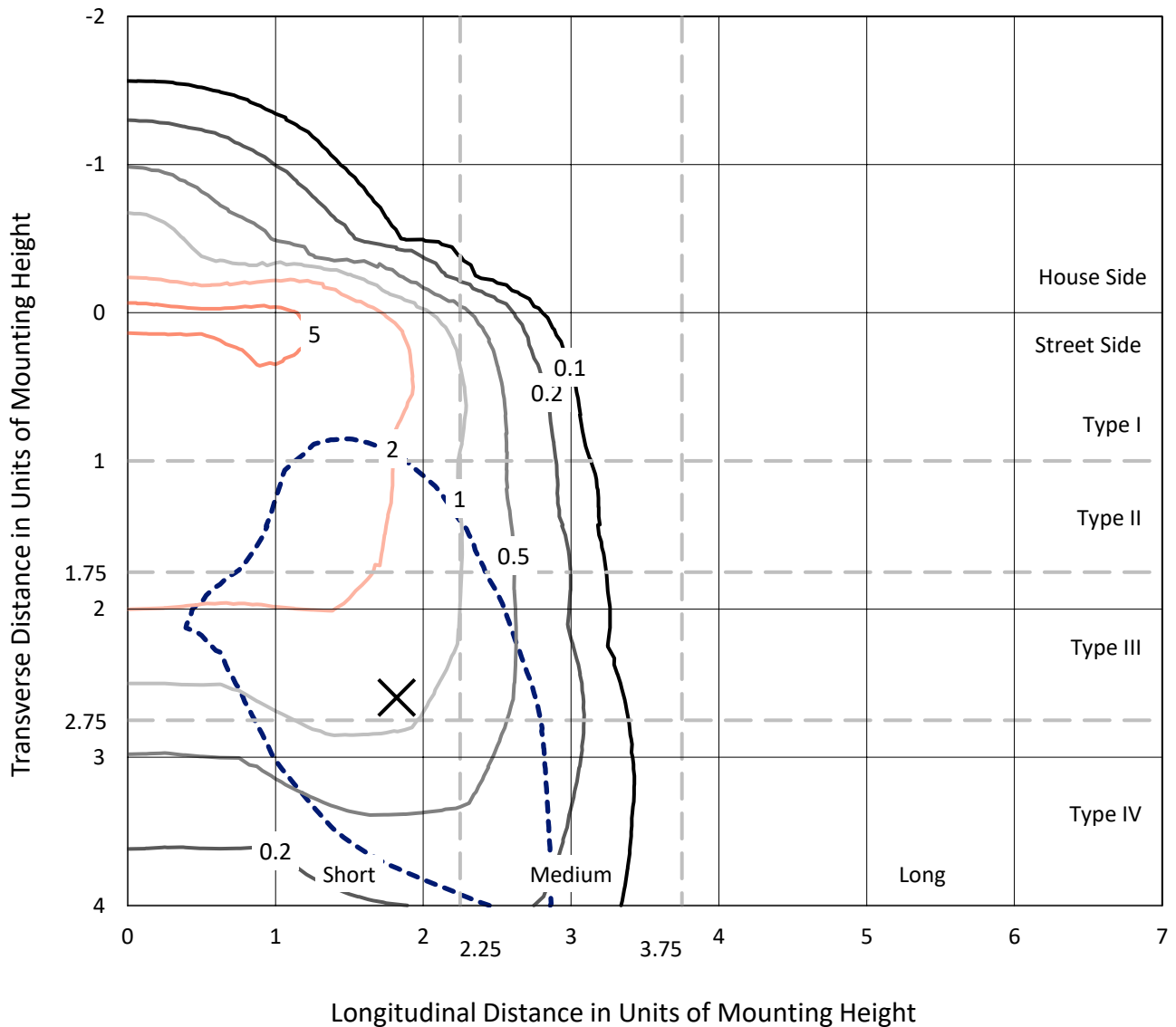
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

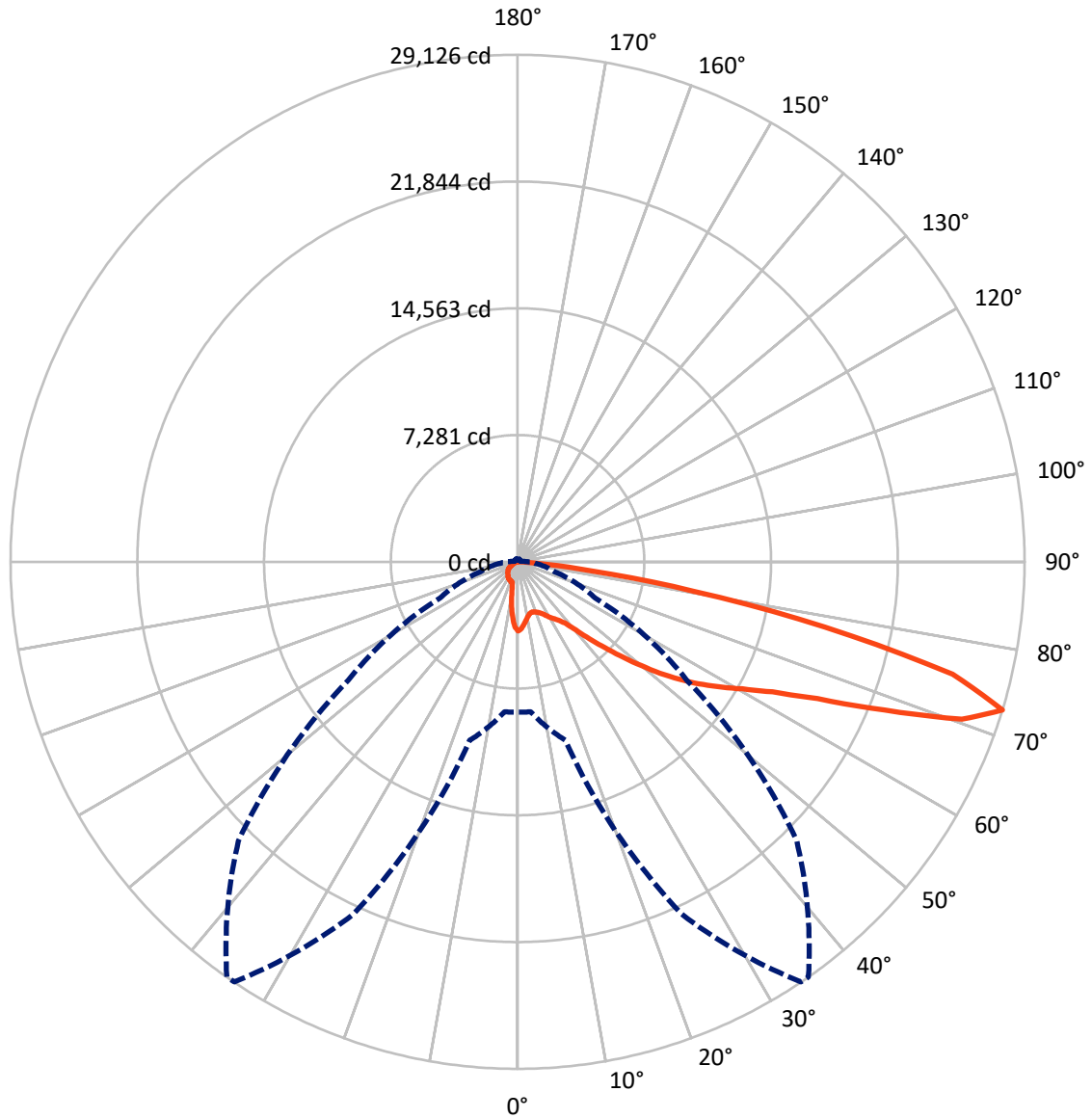
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	3090.6	0.0	3090.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24370.4	0.0	24370.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	27461.0	0.0	27461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	1.2
10°-20°	765.1	2.8
20°-30°	1242.9	4.5
30°-40°	2073.7	7.6
40°-50°	3923.6	14.3
50°-60°	6234.5	22.7
60°-70°	7712.5	28.1
70°-80°	4794.2	17.5
80°-90°	387.4	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°	27461.0	100.0
0°-180°	27461.0	100.0

Coefficient of Utilization



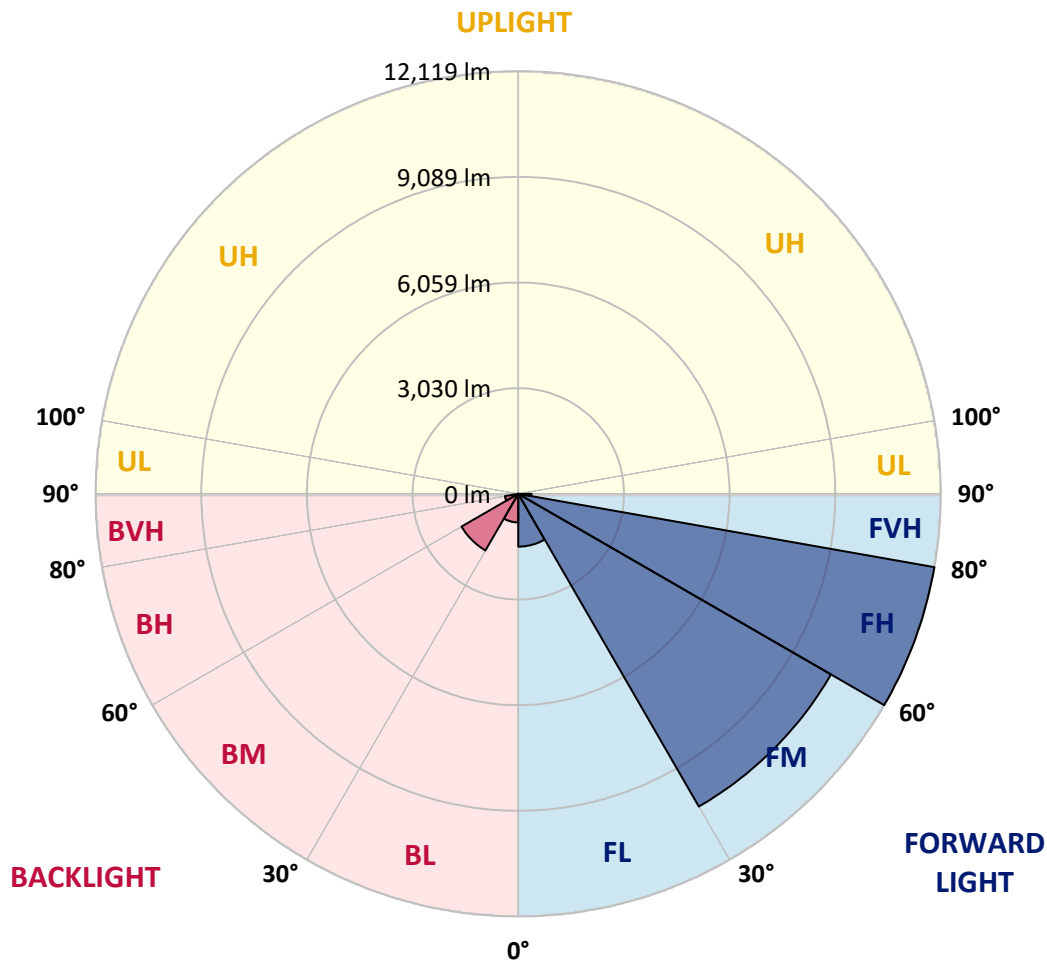
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1513.8	5.5			
FM	(30°-60°)	10355.5	37.7			
FH	(60°-80°)	12118.9	44.1			G5
FVH	(80°-90°)	382.2	1.4			G3/500
BL	(0°-30°)	821.2	3.0	B2/1000		
BM	(30°-60°)	1876.3	6.8	B2/2500		
BH	(60°-80°)	387.8	1.4	B1/500		G1/500
BVH	(80°-90°)	5.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0
2.5°	3803.0	3835.1	3841.2	3851.2	3851.2	3863.3	3883.4	3911.6	3957.9	3982.0
5°	3505.2	3529.3	3559.5	3583.6	3629.9	3635.9	3714.4	3790.9	3897.5	3978.0
7.5°	3205.3	3233.5	3273.8	3332.1	3392.5	3410.6	3529.3	3658.1	3827.1	3978.0
10°	2994.1	2996.1	3032.3	3090.7	3187.2	3209.4	3354.2	3537.3	3748.6	3953.9
12.5°	2875.4	2889.4	2905.5	2949.8	3042.4	3056.4	3211.4	3426.7	3670.1	3939.8
15°	2875.4	2885.4	2895.5	2917.6	2992.1	3004.1	3141.0	3356.3	3629.9	3945.8
17.5°	2905.5	2921.6	2913.6	2939.7	3018.2	3026.3	3147.0	3336.1	3627.9	3984.0
20°	2978.0	2990.0	2973.9	2990.0	3068.5	3084.6	3209.4	3374.4	3662.1	4050.4
22.5°	3092.7	3098.7	3060.5	3072.5	3153.0	3173.2	3318.0	3483.0	3744.6	4157.1
25°	3237.5	3249.6	3191.3	3205.3	3281.8	3306.0	3473.0	3646.0	3875.4	4304.0
27.5°	3404.5	3410.6	3360.3	3358.3	3456.9	3491.1	3660.1	3847.2	4050.4	4489.1
30°	3595.7	3613.8	3565.5	3557.5	3682.2	3710.4	3877.4	4094.7	4308.0	4766.8
32.5°	3746.6	3760.7	3732.5	3752.6	3879.4	3901.5	4141.0	4444.8	4712.4	5161.1
35°	3963.9	3972.0	3907.6	3943.8	4088.7	4145.0	4501.2	4935.8	5221.5	5656.1
37.5°	4750.7	4750.7	4477.0	4297.9	4436.8	4487.1	4994.1	5553.5	5849.3	6320.1
40°	5839.2	5821.1	5420.7	5054.5	5036.4	5135.0	5696.4	6332.2	6660.2	7117.0
42.5°	7000.2	6972.1	6426.8	6064.6	6004.2	6038.4	6507.3	7292.0	7626.0	8088.8
45°	8030.5	8022.4	7523.4	7036.5	6927.8	7036.5	7519.4	8414.8	8654.2	9141.2
47.5°	8893.7	8893.7	8529.5	8211.6	8155.2	8219.6	8889.6	9660.3	9638.2	10261.9
50°	9887.7	9879.6	9533.5	9396.7	9455.1	9545.6	10467.2	10972.2	10656.3	11362.6
52.5°	10583.9	10632.2	10513.4	10491.3	10789.1	10946.1	12068.8	12256.0	11567.8	12406.9
55°	11135.2	11191.5	11328.4	11483.3	12056.8	12262.0	13620.2	13473.3	12330.4	13312.3
57.5°	11915.9	11835.4	12046.7	12352.5	13280.1	13527.6	15123.3	14622.2	12944.1	14046.8
60°	12863.6	12875.7	12911.9	13298.3	14501.5	14819.4	16604.2	15708.8	13338.5	14497.5
62.5°	14002.5	14020.6	14095.1	14688.6	16141.4	16441.2	18181.7	16598.2	13519.6	14370.7
65°	13924.0	14000.5	14831.5	16861.8	18634.5	18930.2	20022.8	17221.9	13245.9	13211.7
67.5°	12684.6	12809.3	14199.7	19457.4	22393.1	22723.1	22248.3	17344.7	12064.8	10274.0
70°	11058.7	11103.0	12775.1	21791.5	26745.4	27079.4	24240.3	15994.5	9155.3	5730.6
72.5°	8636.1	8646.2	10608.0	22332.8	29107.7	29125.8	22676.9	11873.7	4923.7	2201.3
75°	6169.2	6108.9	7104.9	18111.3	25608.5	25813.8	17000.6	5569.6	1881.4	1040.3
77.5°	3308.0	3374.4	4020.3	10740.8	17690.8	18040.9	9276.0	1605.7	957.8	708.3
80°	1022.2	1078.5	1647.9	4917.7	10020.5	10231.7	3438.8	714.3	668.0	505.0
82.5°	321.9	334.0	768.6	2066.5	4159.1	4255.7	996.0	404.4	456.8	334.0
85°	92.6	94.6	342.1	770.7	1028.2	1048.3	279.7	156.9	261.6	207.3
87.5°	10.1	32.2	128.8	128.8	90.5	88.5	30.2	34.2	74.4	26.2
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°
3980.0	0°	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0	3980.0
3998.1	2.5°	3988.1	3990.1	3963.9	3919.7	3871.4	3831.1	3780.8	3740.6	3712.4	3704.4
4034.3	5°	4016.2	4002.2	3927.7	3792.9	3631.9	3493.1	3338.1	3215.4	3134.9	3100.7
4072.6	7.5°	4058.5	4018.3	3855.3	3589.7	3281.8	3008.2	2730.5	2515.2	2378.4	2309.9
4108.8	10°	4094.7	4014.2	3734.5	3295.9	2825.0	2410.5	2036.3	1776.7	1631.8	1563.4
4151.1	12.5°	4128.9	4012.2	3577.6	2947.8	2309.9	1802.9	1454.8	1326.0	1285.8	1271.7
4219.5	15°	4193.3	4018.3	3380.4	2549.4	1796.8	1362.2	1235.5	1233.4	1241.5	1237.5
4324.1	17.5°	4281.8	4024.3	3157.1	2126.8	1386.4	1201.2	1195.2	1213.3	1225.4	1219.4
4454.9	20°	4396.5	4048.4	2919.6	1708.3	1191.2	1161.0	1175.1	1191.2	1201.2	1191.2
4629.9	22.5°	4557.5	4090.7	2660.1	1372.3	1128.8	1136.9	1148.9	1167.0	1177.1	1163.0
4853.3	25°	4754.7	4157.1	2404.5	1193.2	1098.6	1108.7	1126.8	1146.9	1159.0	1144.9
5135.0	27.5°	5010.2	4263.7	2169.1	1153.0	1068.4	1074.5	1100.6	1130.8	1146.9	1128.8
5535.4	30°	5380.5	4438.8	1965.9	1171.1	1050.3	1036.3	1072.5	1114.7	1132.8	1116.7
6080.7	32.5°	5871.4	4686.3	1841.1	1199.2	1042.3	992.0	1026.2	1080.5	1110.7	1100.6
6793.0	35°	6515.3	5062.6	1792.8	1231.4	1036.3	945.7	969.9	1028.2	1080.5	1090.6
7690.4	37.5°	7296.0	5585.7	1806.9	1245.5	1018.1	907.5	919.5	969.9	1038.3	1070.5
8700.5	40°	8183.4	6195.4	1887.4	1231.4	998.0	875.3	877.3	915.5	975.9	1024.2
9787.1	42.5°	9098.9	6907.7	2036.3	1179.1	979.9	847.1	841.1	867.2	907.5	941.7
10871.6	45°	9970.2	7640.1	2183.2	1106.7	957.8	818.9	804.9	814.9	823.0	837.1
11928.0	47.5°	10730.8	8155.2	2140.9	1040.3	927.6	786.7	762.6	758.6	734.4	732.4
12871.7	50°	11255.9	8267.9	1901.5	973.9	883.3	750.5	712.3	688.2	645.9	625.8
13577.9	52.5°	11422.9	7823.2	1553.4	907.5	810.9	702.2	647.9	609.7	557.4	539.3
13984.4	55°	11201.6	6952.0	1241.5	827.0	710.3	637.8	577.5	527.2	484.9	462.8
14028.7	57.5°	10660.3	5843.3	981.9	732.4	603.6	565.4	505.0	454.7	418.5	396.4
13537.7	60°	9762.9	4640.0	776.7	619.7	515.1	486.9	424.6	392.4	360.2	334.0
12270.1	62.5°	8400.7	3312.0	609.7	491.0	430.6	398.4	362.2	338.0	299.8	263.6
9990.3	65°	6555.6	2026.2	470.8	360.2	346.1	330.0	307.9	285.7	239.4	203.2
6517.3	67.5°	4135.0	959.8	336.0	271.6	273.7	265.6	255.5	237.4	203.2	171.0
2919.6	70°	1821.0	464.8	221.3	207.3	203.2	203.2	211.3	205.2	173.0	142.9
1014.1	72.5°	619.7	249.5	165.0	156.9	146.9	144.9	177.1	171.0	138.8	110.7
505.0	75°	324.0	167.0	120.7	112.7	88.5	106.6	140.9	132.8	98.6	72.4
334.0	77.5°	211.3	118.7	82.5	72.4	50.3	70.4	104.6	92.6	58.4	36.2
219.3	80°	132.8	78.5	48.3	34.2	24.1	38.2	56.3	40.2	22.1	8.0
128.8	82.5°	70.4	40.2	18.1	12.1	10.1	12.1	14.1	10.1	4.0	0.0
66.4	85°	28.2	14.1	6.0	4.0	2.0	0.0	4.0	2.0	0.0	0.0
12.1	87.5°	10.1	2.0	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°
3980.0
3718.4
3112.8
2320.0
1565.4
1267.7
1235.5
1217.3
1189.2
1161.0
1142.9
1128.8
1114.7
1100.6
1090.6
1078.5
1040.3
955.8
845.1
730.4
627.8
537.2
462.8
392.4
328.0
257.6
197.2
167.0
136.8
104.6
66.4
32.2
6.0
0.0
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0.0
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