

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: P848357

Luminaire Tested: **GLAN-SB4D-850-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27464 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

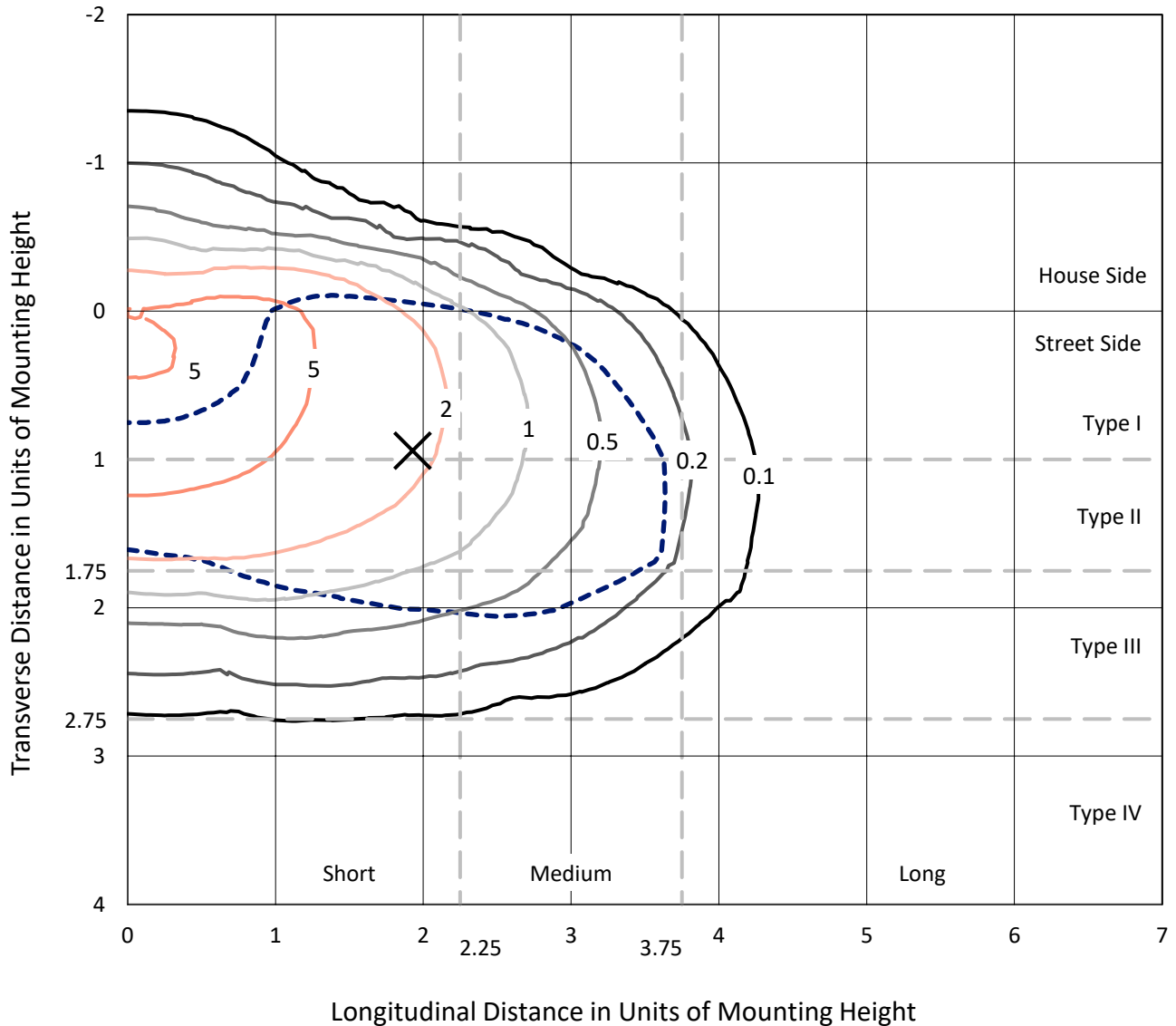
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

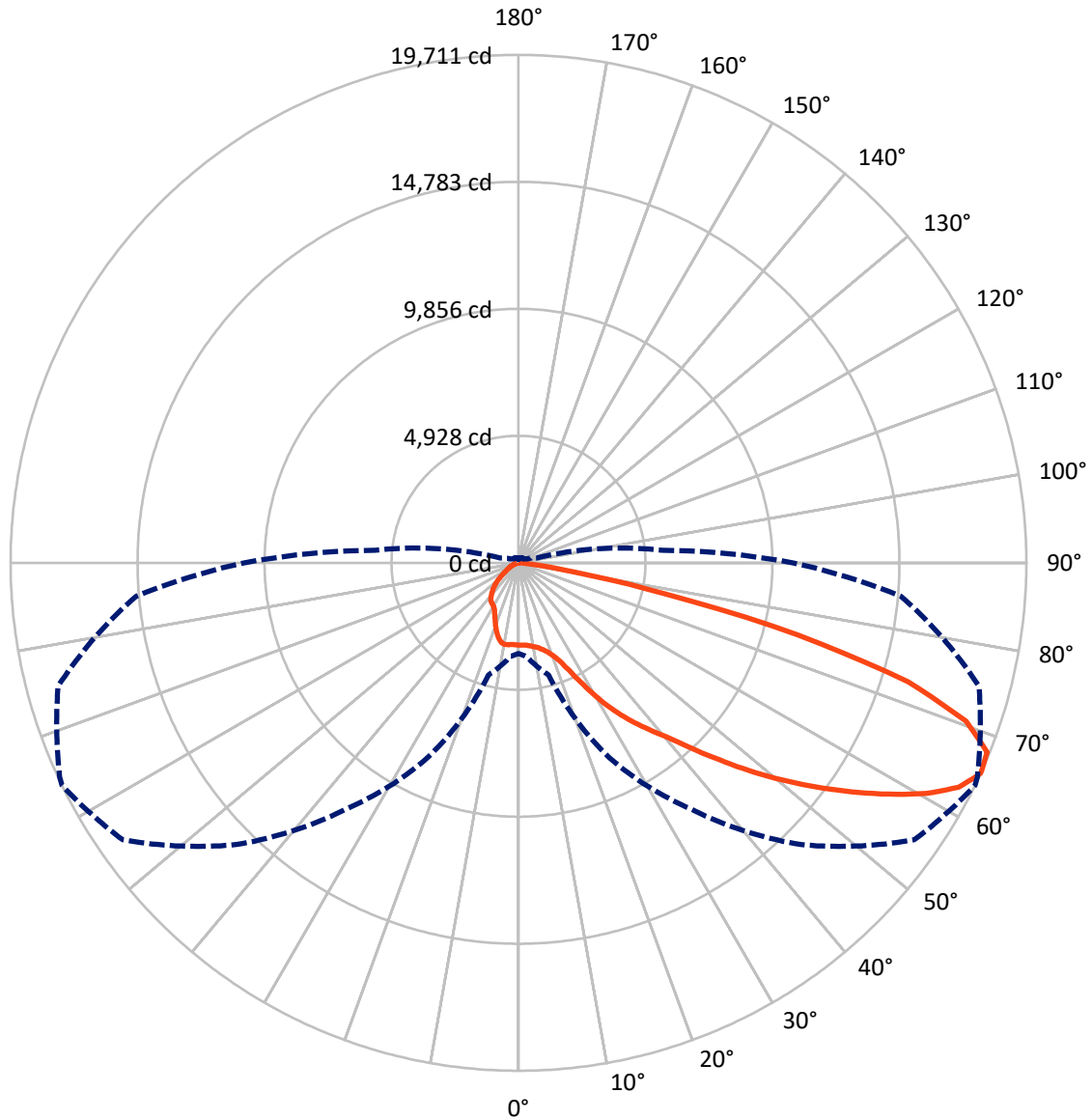
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3672.8	0.0	3672.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23791.2	0.0	23791.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	27464.0	0.0	27464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	1.1
10°-20°	799.3	2.9
20°-30°	1514.7	5.5
30°-40°	3065.0	11.2
40°-50°	5221.3	19.0
50°-60°	7100.5	25.9
60°-70°	6667.7	24.3
70°-80°	2671.4	9.7
80°-90°	129.4	0.5
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°	27464.0	100.0
0°-180°	27464.0	100.0

Coefficient of Utilization

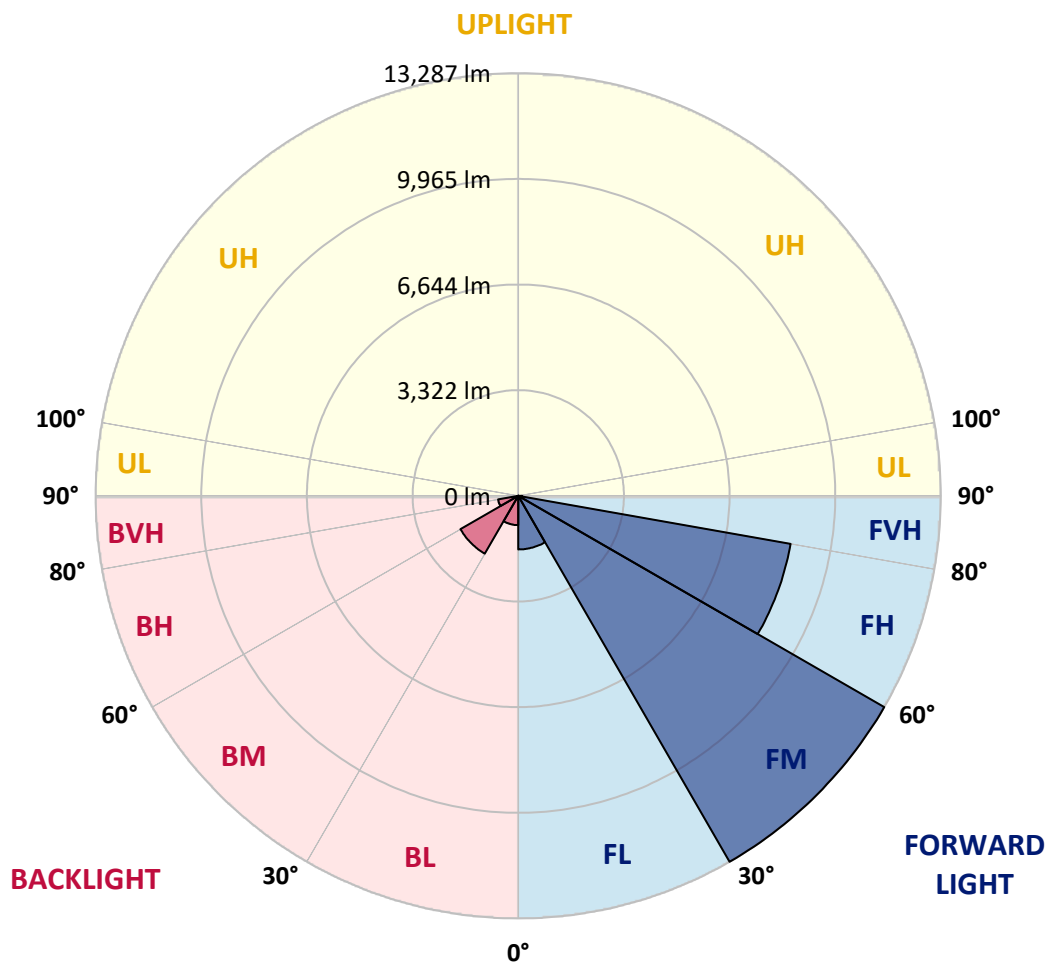


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.6	6.1			
FM (30°-60°)	13287.0	48.4			
FH (60°-80°)	8694.5	31.7			G4/12000
FVH (80°-90°)	123.1	0.4			G2/225
BL (0°-30°)	922.1	3.4	B2/1000		
BM (30°-60°)	2099.7	7.6	B2/2500		
BH (60°-80°)	644.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.3	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-G4
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3
2.5°	3183.3	3205.4	3199.9	3194.3	3192.5	3196.2	3198.0	3196.2	3196.2	3196.2
5°	3122.5	3141.0	3141.0	3153.8	3172.3	3194.3	3210.9	3214.6	3218.3	3223.8
7.5°	3006.6	3021.3	3032.3	3074.7	3120.7	3179.6	3229.3	3255.1	3258.8	3279.0
10°	2927.4	2945.8	2964.2	3008.4	3074.7	3163.0	3247.7	3310.3	3319.5	3367.4
12.5°	2923.7	2942.1	2966.0	3013.9	3091.2	3185.1	3288.2	3378.5	3395.0	3465.0
15°	2962.4	2984.5	3006.6	3065.5	3148.3	3262.5	3372.9	3485.2	3501.8	3601.2
17.5°	3041.5	3071.0	3087.6	3146.5	3234.9	3361.9	3507.3	3636.2	3650.9	3766.9
20°	3198.0	3233.0	3238.5	3286.4	3372.9	3509.2	3682.2	3842.4	3860.8	3993.4
22.5°	3522.1	3571.8	3527.6	3551.5	3628.9	3765.1	3952.9	4155.4	4181.2	4332.2
25°	4092.8	4162.8	4048.6	4008.1	4041.3	4183.0	4418.7	4674.6	4704.1	4825.6
27.5°	5214.1	5123.8	4950.8	4781.4	4682.0	4763.0	5028.1	5344.8	5381.6	5499.4
30°	6445.8	6366.6	6132.8	5757.2	5521.5	5508.6	5753.5	6107.0	6149.4	6261.7
32.5°	7679.3	7603.8	7349.8	6887.6	6478.9	6276.4	6445.8	6837.9	6860.0	6931.8
35°	8892.6	8815.3	8561.2	8088.1	7585.4	7125.1	7092.0	7533.9	7541.2	7616.7
37.5°	10113.3	10048.8	9778.2	9314.2	8819.0	8183.8	7876.3	8193.0	8202.2	8275.8
40°	10984.1	11011.8	10825.8	10466.8	10041.5	9347.4	8756.4	8894.5	8839.2	8962.6
42.5°	11731.6	11786.9	11624.9	11444.4	11197.7	10586.5	9846.3	9822.4	9734.0	9800.3
45°	12377.9	12423.9	12278.4	12236.1	12230.6	11801.6	11037.5	10893.9	10770.6	10757.7
47.5°	12615.4	12703.7	12766.3	12908.1	13184.3	13003.9	12269.2	12046.5	11908.4	11807.1
50°	12705.6	12799.5	13013.1	13425.5	14079.1	14156.4	13495.4	13245.0	13075.7	12891.5
52.5°	12584.1	12751.6	13038.8	13732.9	14681.1	15080.6	14671.9	14452.8	14259.5	13959.4
55°	11867.9	12035.4	12622.7	13729.3	14981.2	15728.7	15783.9	15686.4	15469.1	14995.9
57.5°	10358.2	10606.7	11536.5	13261.6	14975.7	16286.6	16873.9	16943.9	16700.8	16023.3
60°	8266.6	8603.6	9737.7	12225.1	14513.6	16588.5	17829.4	18179.2	17921.5	17035.9
62.5°	5768.2	6158.6	7231.9	10601.2	13456.8	16371.3	18527.2	19173.5	18978.3	17941.7
65°	3518.4	3643.6	4508.9	8342.1	11659.8	15461.8	18742.6	19711.1	19646.6	18495.9
67.5°	2343.7	2448.7	2697.2	5720.4	9051.0	13644.6	18227.1	19617.2	19635.6	18405.7
70°	1412.1	1502.4	1664.4	3326.9	5865.8	10800.0	16630.9	18420.4	18527.2	17199.8
72.5°	581.8	642.6	789.8	1507.9	3037.9	6854.5	13243.2	15815.2	16063.8	14462.0
75°	329.6	360.9	464.0	756.7	1318.2	3194.3	8021.8	11227.2	11593.6	9967.8
77.5°	219.1	233.8	300.1	489.7	742.0	1089.9	3428.2	5849.2	6548.9	5444.2
80°	147.3	160.2	206.2	327.7	482.4	467.6	1091.8	2167.0	2665.9	1870.6
82.5°	99.4	101.3	147.3	215.4	305.6	226.5	322.2	673.9	846.9	541.3
85°	57.1	55.2	108.6	125.2	136.2	93.9	97.6	202.5	265.1	228.3
87.5°	7.4	11.0	42.3	33.1	18.4	20.3	20.3	35.0	51.6	55.2
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°
3194.3	0°	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3	3194.3
3198.0	2.5°	3198.0	3196.2	3190.7	3185.1	3172.3	3164.9	3168.6	3164.9	3163.0	3164.9
3222.0	5°	3222.0	3216.4	3201.7	3183.3	3157.5	3126.2	3106.0	3076.5	3048.9	3032.3
3286.4	7.5°	3286.4	3280.9	3260.6	3209.1	3126.2	2995.5	2875.8	2770.9	2691.7	2645.7
3389.5	10°	3389.5	3380.3	3349.0	3234.9	3017.6	2732.2	2494.7	2297.7	2168.8	2108.1
3511.0	12.5°	3511.0	3500.0	3444.7	3210.9	2811.4	2365.8	2038.1	1819.0	1699.4	1646.0
3650.9	15°	3654.6	3639.9	3531.3	3096.8	2511.3	1960.8	1660.7	1496.8	1419.5	1371.6
3829.5	17.5°	3833.2	3807.4	3595.7	2925.5	2185.4	1651.5	1428.7	1305.4	1237.2	1191.2
4063.4	20°	4065.2	4022.9	3647.3	2721.2	1885.3	1456.3	1272.2	1169.1	1117.6	1077.1
4394.8	22.5°	4389.2	4328.5	3709.9	2500.2	1673.6	1321.9	1156.2	1080.7	1038.4	992.4
4856.9	25°	4790.6	4718.8	3787.2	2295.9	1528.1	1205.9	1071.5	1008.9	959.2	905.8
5462.6	27.5°	5352.1	5223.3	3879.2	2128.3	1402.9	1106.5	994.2	924.2	867.2	823.0
6149.4	30°	5978.1	5766.4	3960.3	2027.1	1288.8	1014.5	892.9	823.0	769.6	738.3
6766.1	32.5°	6571.0	6283.8	4013.6	1982.9	1185.7	909.5	782.5	707.0	666.5	657.3
7370.0	35°	7130.7	6751.4	4008.1	1940.5	1093.6	804.6	673.9	596.5	565.2	570.7
8019.9	37.5°	7775.1	7250.3	3969.5	1874.3	1018.1	708.8	580.0	511.8	484.2	486.1
8809.8	40°	8524.4	7826.6	3945.5	1749.1	935.3	620.5	502.6	447.4	427.1	419.8
9642.0	42.5°	9323.4	8384.5	3949.2	1607.3	832.2	541.3	449.2	403.2	384.8	379.3
10568.0	45°	10126.2	8916.6	3954.7	1460.0	723.6	480.5	410.6	371.9	360.9	353.5
11507.0	47.5°	10881.0	9369.5	3851.6	1301.7	616.8	434.5	379.3	353.5	344.3	335.1
12449.7	50°	11584.3	9671.4	3603.1	1117.6	532.1	397.7	355.3	336.9	327.7	318.5
13304.0	52.5°	12131.2	9719.3	3192.5	927.9	473.2	370.1	340.6	324.0	313.0	303.8
13994.4	55°	12374.2	9419.2	2608.9	751.2	427.1	346.1	325.9	309.3	296.4	287.2
14537.5	57.5°	12311.6	8787.7	2034.4	603.9	383.0	322.2	307.5	296.4	281.7	267.0
14977.5	60°	12004.1	7942.6	1533.7	502.6	342.4	296.4	287.2	278.0	257.8	235.7
15146.9	62.5°	11472.0	6880.3	1093.6	416.1	298.3	267.0	263.3	255.9	226.5	186.0
14896.5	65°	10658.3	5589.6	736.4	346.1	255.9	233.8	235.7	222.8	184.1	138.1
13979.6	67.5°	9468.9	4087.3	471.3	283.5	213.6	195.2	197.0	189.6	156.5	117.8
12241.6	70°	7953.7	2706.5	307.5	215.4	171.2	151.0	162.0	163.9	132.6	95.7
9395.3	72.5°	5830.8	1598.1	215.4	160.2	125.2	104.9	132.6	136.2	106.8	71.8
5652.2	75°	3323.2	758.5	162.0	116.0	77.3	73.6	103.1	103.1	73.6	47.9
2446.9	77.5°	1395.6	316.7	114.1	75.5	44.2	42.3	70.0	64.4	36.8	22.1
596.5	80°	403.2	141.8	60.8	36.8	18.4	16.6	27.6	20.3	9.2	3.7
226.5	82.5°	158.3	62.6	23.9	14.7	7.4	7.4	3.7	0.0	0.0	0.0
128.9	85°	93.9	25.8	11.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0
27.6	87.5°	23.9	5.5	3.7	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°
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3194.3
3172.3
3036.0
2647.5
2102.6
1640.4
1373.5
1187.5
1069.7
985.0
900.3
813.8
732.8
662.8
570.7
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335.1
318.5
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