

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: P848347

Luminaire Tested: **GLAN-SB4D-840-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848347
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-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 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: 28445 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

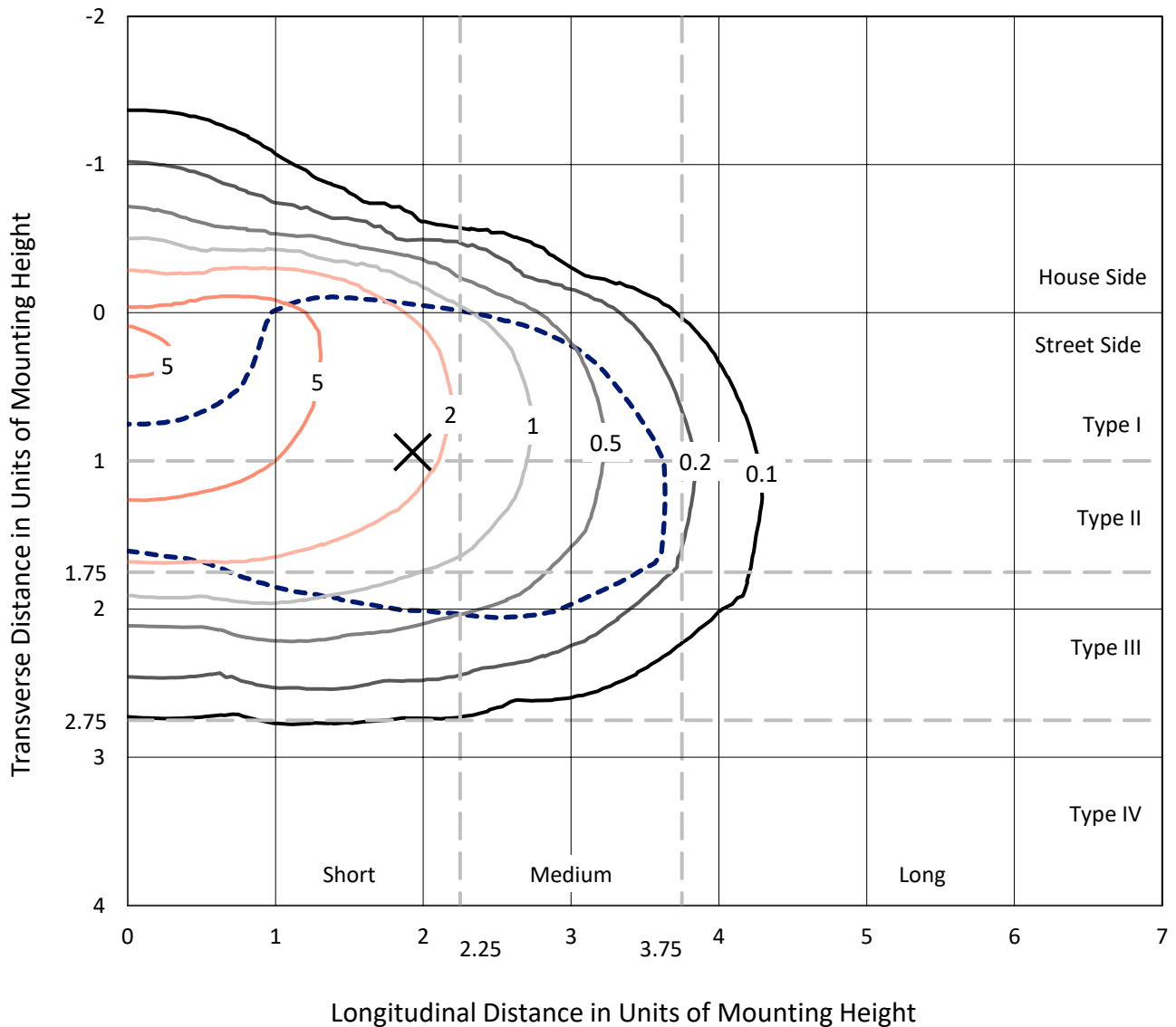
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

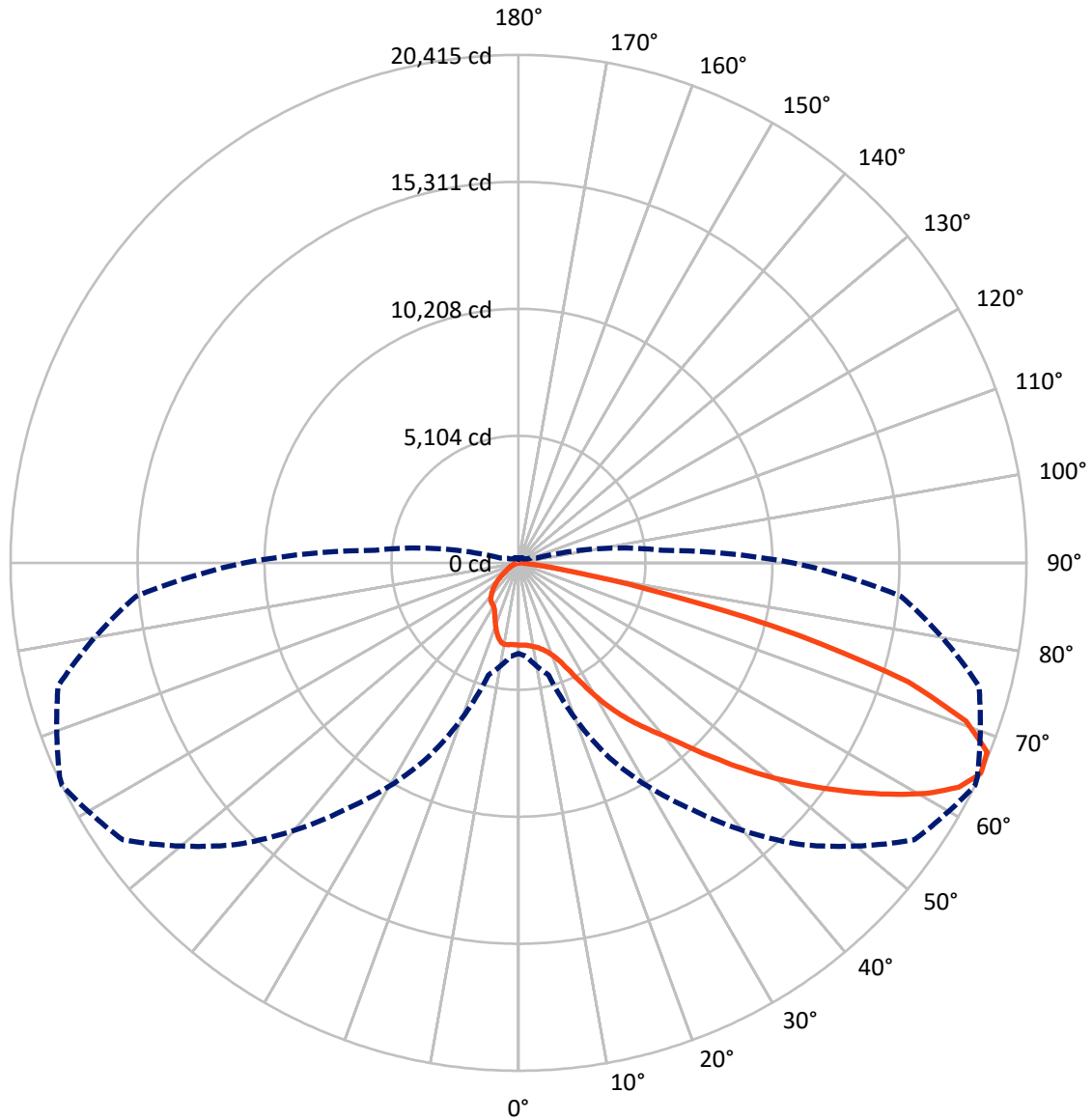
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	3804.0	0.0	3804.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24641.0	0.0	24641.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	28445.0	0.0	28445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.1
10°-20°	827.9	2.9
20°-30°	1568.8	5.5
30°-40°	3174.5	11.2
40°-50°	5407.8	19.0
50°-60°	7354.1	25.9
60°-70°	6905.9	24.3
70°-80°	2766.8	9.7
80°-90°	134.0	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°	28445.0	100.0
0°-180°	28445.0	100.0

Coefficient of Utilization



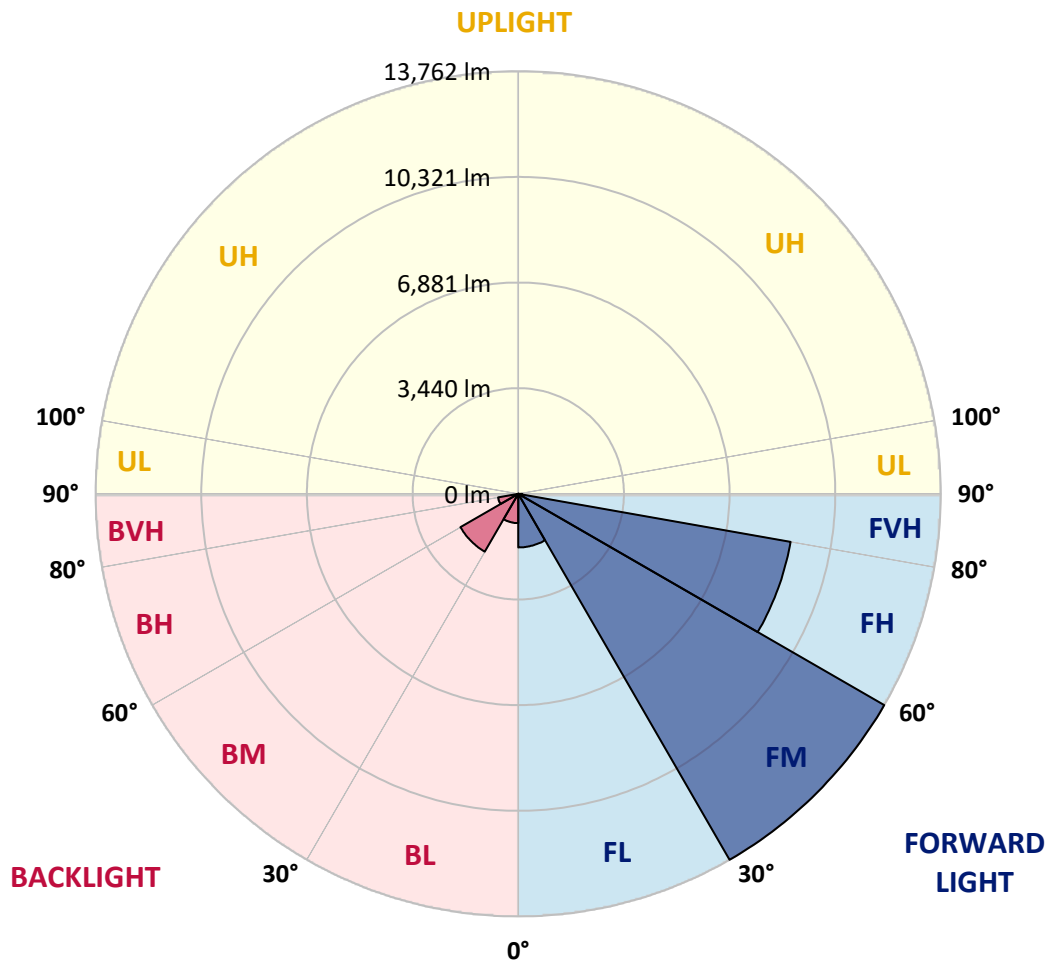
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.8	6.1			
FM (30°-60°)	13761.7	48.4			
FH (60°-80°)	9005.0	31.7			G4/12000
FVH (80°-90°)	127.5	0.4			G2/225
BL (0°-30°)	955.1	3.4	B2/1000		
BM (30°-60°)	2174.7	7.6	B2/2500		
BH (60°-80°)	667.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4
2.5°	3297.0	3319.9	3314.2	3308.4	3306.5	3310.4	3312.3	3310.4	3310.4	3310.4
5°	3234.1	3253.1	3253.1	3266.5	3285.6	3308.4	3325.6	3329.4	3333.2	3339.0
7.5°	3113.9	3129.2	3140.6	3184.5	3232.2	3293.2	3344.7	3371.4	3375.2	3396.2
10°	3032.0	3051.0	3070.1	3115.9	3184.5	3276.0	3363.7	3428.6	3438.1	3487.7
12.5°	3028.1	3047.2	3072.0	3121.6	3201.7	3298.9	3405.7	3499.1	3516.3	3588.8
15°	3068.2	3091.1	3113.9	3175.0	3260.8	3379.0	3493.4	3609.7	3626.9	3729.9
17.5°	3150.2	3180.7	3197.8	3258.9	3350.4	3482.0	3632.6	3766.1	3781.4	3901.5
20°	3312.3	3348.5	3354.2	3403.8	3493.4	3634.5	3813.8	3979.7	3998.7	4136.0
22.5°	3647.9	3699.4	3653.6	3678.4	3758.5	3899.6	4094.1	4303.8	4330.5	4486.9
25°	4239.0	4311.5	4193.2	4151.3	4185.6	4332.4	4576.5	4841.6	4872.1	4998.0
27.5°	5400.3	5306.9	5127.6	4952.2	4849.2	4933.1	5207.7	5535.7	5573.8	5695.9
30°	6676.0	6594.0	6351.8	5962.8	5718.8	5705.4	5959.0	6325.1	6369.0	6485.3
32.5°	7953.6	7875.4	7612.3	7133.7	6710.3	6500.6	6676.0	7082.2	7105.1	7179.4
35°	9210.3	9130.2	8867.0	8377.0	7856.4	7379.7	7345.3	7803.0	7810.6	7888.8
37.5°	10474.5	10407.8	10127.5	9646.9	9134.0	8476.1	8157.7	8485.6	8495.2	8571.5
40°	11376.5	11405.1	11212.5	10840.7	10400.2	9681.3	9069.2	9212.2	9155.0	9282.7
42.5°	12150.7	12207.9	12040.1	11853.2	11597.7	10964.6	10198.0	10173.2	10081.7	10150.4
45°	12820.0	12867.7	12717.0	12673.2	12667.5	12223.1	11431.8	11283.1	11155.3	11141.9
47.5°	13066.0	13157.5	13222.4	13369.2	13655.2	13468.3	12707.5	12476.8	12333.7	12228.9
50°	13159.4	13256.7	13477.9	13905.0	14582.0	14662.1	13977.5	13718.1	13542.7	13352.0
52.5°	13033.6	13207.1	13504.6	14223.5	15205.5	15619.3	15196.0	14969.1	14768.8	14458.0
55°	12291.8	12465.3	13073.6	14219.7	15516.3	16290.5	16347.7	16246.7	16021.7	15531.6
57.5°	10728.1	10985.6	11948.6	13735.3	15510.6	16868.3	17476.6	17549.1	17297.4	16595.6
60°	8561.9	8910.9	10085.5	12661.7	15032.0	17181.1	18466.3	18828.6	18561.6	17644.4
62.5°	5974.3	6378.5	7490.3	10979.9	13937.4	16956.0	19189.0	19858.3	19656.2	18582.6
65°	3644.1	3773.7	4670.0	8640.1	12076.3	16014.0	19412.1	20415.1	20348.4	19156.6
67.5°	2427.5	2536.2	2793.6	5924.7	9374.3	14131.9	18878.2	20317.9	20336.9	19063.1
70°	1462.6	1556.0	1723.8	3445.7	6075.3	11185.8	17224.9	19078.4	19189.0	17814.1
72.5°	602.6	665.5	818.1	1561.7	3146.4	7099.3	13716.2	16380.2	16637.6	14978.6
75°	341.3	373.7	480.5	783.7	1365.3	3308.4	8308.3	11628.2	12007.7	10323.9
77.5°	226.9	242.2	310.8	507.2	768.5	1128.9	3550.6	6058.2	6782.8	5638.7
80°	152.6	165.9	213.6	339.4	499.6	484.3	1130.8	2244.4	2761.2	1937.4
82.5°	103.0	104.9	152.6	223.1	316.5	234.5	333.7	697.9	877.2	560.6
85°	59.1	57.2	112.5	129.7	141.1	97.3	101.1	209.8	274.6	236.5
87.5°	7.6	11.4	43.9	34.3	19.1	21.0	21.0	36.2	53.4	57.2
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°
3308.4	0°	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4	3308.4
3312.3	2.5°	3312.3	3310.4	3304.6	3298.9	3285.6	3277.9	3281.8	3277.9	3276.0	3277.9
3337.1	5°	3337.1	3331.3	3316.1	3297.0	3270.3	3237.9	3216.9	3186.4	3157.8	3140.6
3403.8	7.5°	3403.8	3398.1	3377.1	3323.7	3237.9	3102.5	2978.6	2869.9	2787.9	2740.2
3510.6	10°	3510.6	3501.0	3468.6	3350.4	3125.4	2829.8	2583.8	2379.8	2246.3	2183.4
3636.4	12.5°	3636.4	3625.0	3567.8	3325.6	2911.8	2450.3	2110.9	1884.0	1760.1	1704.8
3781.4	15°	3785.2	3769.9	3657.4	3207.4	2601.0	2030.8	1720.0	1550.3	1470.2	1420.6
3966.3	17.5°	3970.1	3943.4	3724.2	3030.0	2263.5	1710.5	1479.7	1352.0	1281.4	1233.8
4208.5	20°	4210.4	4166.5	3777.5	2818.4	1952.7	1508.3	1317.7	1210.9	1157.5	1115.5
4551.7	22.5°	4546.0	4483.1	3842.4	2589.6	1733.4	1369.1	1197.5	1119.3	1075.5	1027.8
5030.4	25°	4961.7	4887.4	3922.5	2377.9	1582.7	1249.0	1109.8	1045.0	993.5	938.2
5657.7	27.5°	5543.3	5409.8	4017.8	2204.4	1453.0	1146.0	1029.7	957.3	898.1	852.4
6369.0	30°	6191.7	5972.4	4101.7	2099.5	1334.8	1050.7	924.8	852.4	797.1	764.7
7007.8	32.5°	6805.7	6508.2	4157.0	2053.7	1228.0	942.0	810.4	732.2	690.3	680.8
7633.3	35°	7385.4	6992.6	4151.3	2009.9	1132.7	833.3	697.9	617.8	585.4	591.1
8306.4	37.5°	8052.8	7509.3	4111.2	1941.2	1054.5	734.2	600.7	530.1	501.5	503.4
9124.5	40°	8828.9	8106.2	4086.5	1811.5	968.7	642.6	520.6	463.4	442.4	434.8
9986.4	42.5°	9656.5	8684.0	4090.3	1664.7	861.9	560.6	465.3	417.6	398.5	392.8
10945.5	45°	10487.9	9235.1	4096.0	1512.2	749.4	497.7	425.2	385.2	373.7	366.1
11918.0	47.5°	11269.7	9704.1	3989.2	1348.2	638.8	450.0	392.8	366.1	356.6	347.1
12894.4	50°	11998.1	10016.9	3731.8	1157.5	551.1	411.9	368.0	349.0	339.4	329.9
13779.2	52.5°	12564.5	10066.5	3306.5	961.1	490.1	383.3	352.8	335.6	324.2	314.6
14494.2	55°	12816.2	9755.6	2702.1	778.0	442.4	358.5	337.5	320.4	307.0	297.5
15056.8	57.5°	12751.4	9101.6	2107.1	625.5	396.6	333.7	318.5	307.0	291.8	276.5
15512.5	60°	12432.9	8226.3	1588.4	520.6	354.7	307.0	297.5	287.9	267.0	244.1
15688.0	62.5°	11881.8	7126.0	1132.7	431.0	308.9	276.5	272.7	265.1	234.5	192.6
15428.6	65°	11039.0	5789.3	762.8	358.5	265.1	242.2	244.1	230.7	190.7	143.0
14479.0	67.5°	9807.1	4233.3	488.2	293.7	221.2	202.1	204.0	196.4	162.1	122.0
12678.9	70°	8237.8	2803.1	318.5	223.1	177.3	156.4	167.8	169.7	137.3	99.2
9730.8	72.5°	6039.1	1655.2	223.1	165.9	129.7	108.7	137.3	141.1	110.6	74.4
5854.1	75°	3441.9	785.6	167.8	120.1	80.1	76.3	106.8	106.8	76.3	49.6
2534.3	77.5°	1445.4	328.0	118.2	78.2	45.8	43.9	72.5	66.7	38.1	22.9
617.8	80°	417.6	146.8	62.9	38.1	19.1	17.2	28.6	21.0	9.5	3.8
234.5	82.5°	164.0	64.8	24.8	15.3	7.6	7.6	3.8	0.0	0.0	0.0
133.5	85°	97.3	26.7	11.4	5.7	1.9	0.0	0.0	0.0	0.0	0.0
28.6	87.5°	24.8	5.7	3.8	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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3308.4
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