

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: P848997

Luminaire Tested: **GLAN-SB5D-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848997
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-SB5D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 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: 32143 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

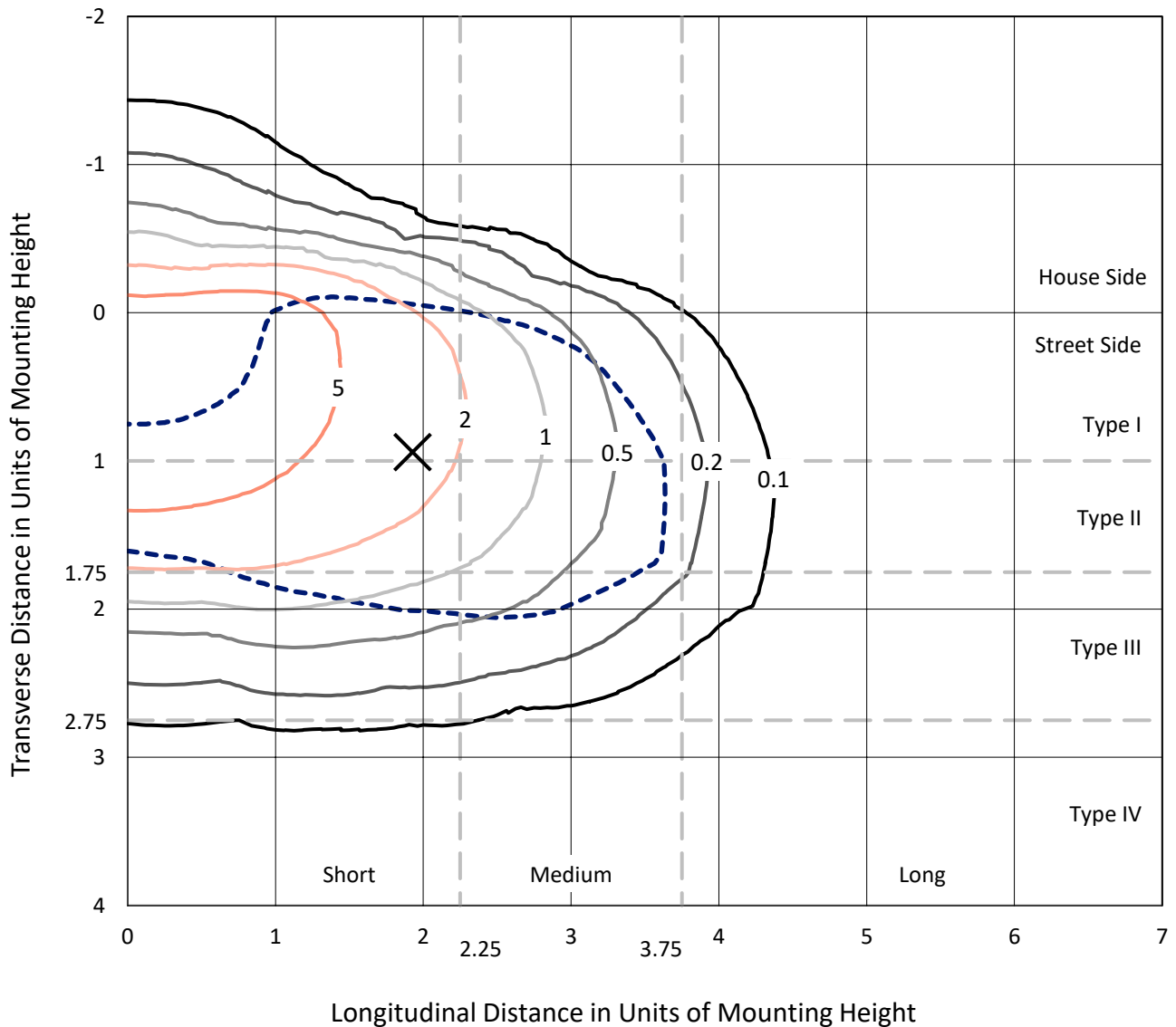
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

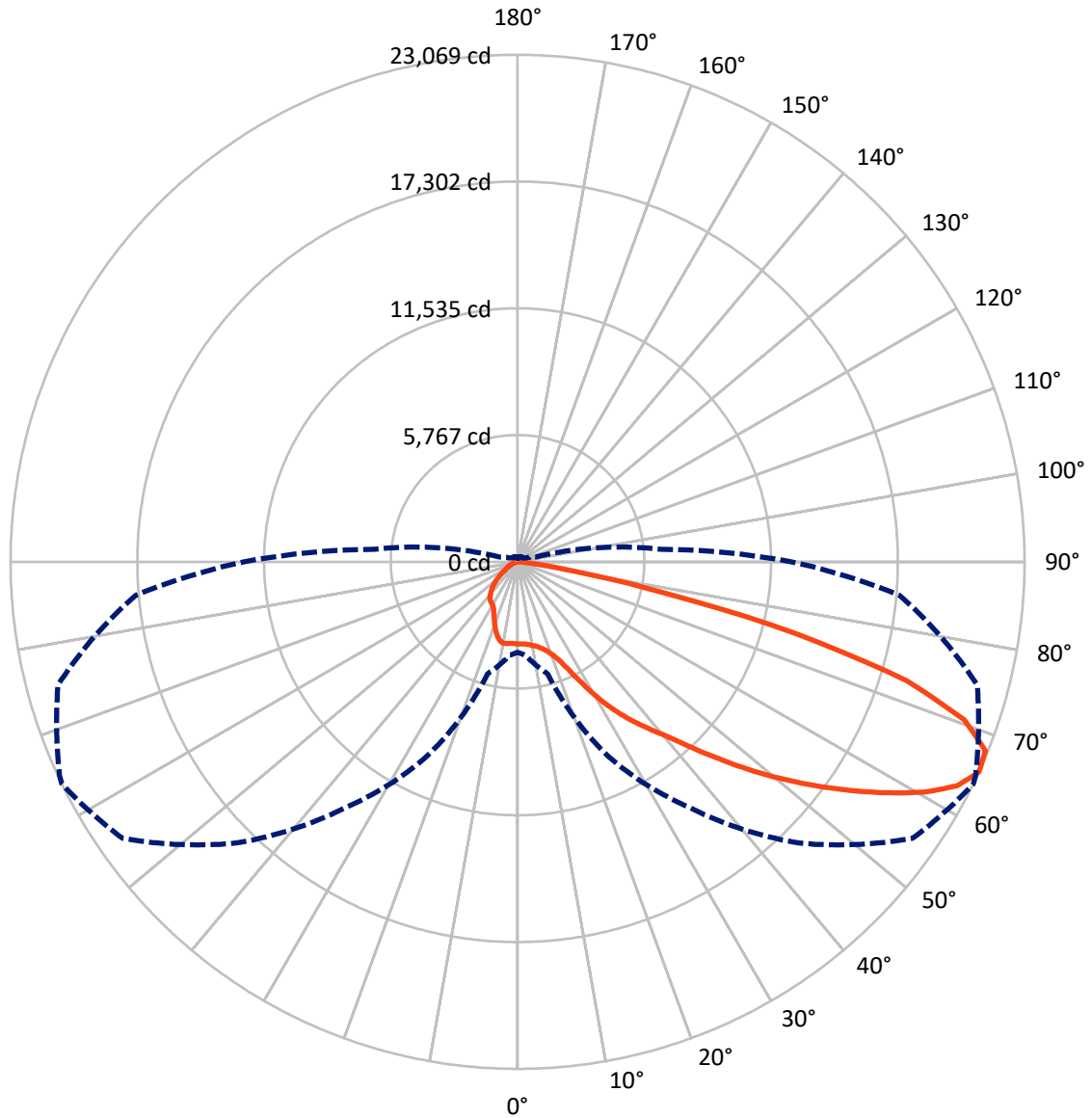
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4298.5	0.0	4298.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27844.5	0.0	27844.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	32143.0	0.0	32143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	1.1
10°-20°	935.5	2.9
20°-30°	1772.7	5.5
30°-40°	3587.2	11.2
40°-50°	6110.8	19.0
50°-60°	8310.2	25.9
60°-70°	7803.7	24.3
70°-80°	3126.5	9.7
80°-90°	151.5	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°	32143.0	100.0
0°-180°	32143.0	100.0

Coefficient of Utilization



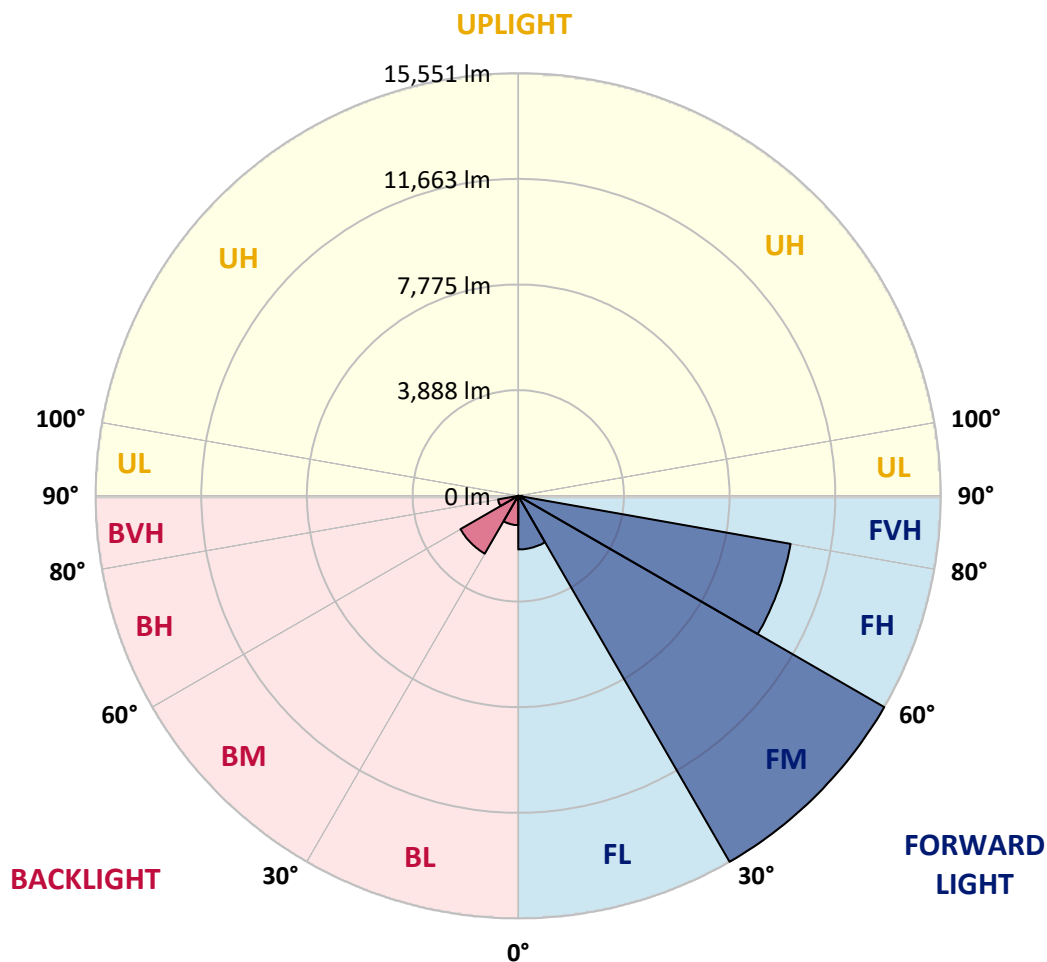
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.0	6.1			
FM (30°-60°)	15550.7	48.4			
FH (60°-80°)	10175.7	31.7			G4/12000
FVH (80°-90°)	144.1	0.4			G2/225
BL (0°-30°)	1079.2	3.4	B3/2500		
BM (30°-60°)	2457.4	7.6	B2/2500		
BH (60°-80°)	754.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6
2.5°	3725.6	3751.5	3745.0	3738.6	3736.4	3740.7	3742.9	3740.7	3740.7	3740.7
5°	3654.5	3676.1	3676.1	3691.2	3712.7	3738.6	3758.0	3762.3	3766.6	3773.0
7.5°	3518.8	3536.0	3548.9	3598.5	3652.4	3721.3	3779.5	3809.7	3814.0	3837.7
10°	3426.1	3447.7	3469.2	3520.9	3598.5	3701.9	3801.1	3874.3	3885.1	3941.1
12.5°	3421.8	3443.4	3471.4	3527.4	3617.9	3727.8	3848.5	3954.0	3973.4	4055.3
15°	3467.1	3492.9	3518.8	3587.7	3684.7	3818.3	3947.6	4079.0	4098.4	4214.8
17.5°	3559.7	3594.2	3613.6	3682.5	3786.0	3934.7	4104.9	4255.7	4273.0	4408.7
20°	3742.9	3783.8	3790.3	3846.3	3947.6	4107.0	4309.6	4497.1	4518.6	4673.7
22.5°	4122.1	4180.3	4128.6	4156.6	4247.1	4406.6	4626.3	4863.4	4893.5	5070.2
25°	4790.1	4872.0	4738.4	4691.0	4729.8	4895.7	5171.5	5471.0	5505.5	5647.7
27.5°	6102.4	5996.8	5794.2	5596.0	5479.6	5574.4	5884.7	6255.4	6298.5	6436.4
30°	7543.9	7451.3	7177.6	6738.0	6462.2	6447.1	6733.7	7147.4	7197.0	7328.4
32.5°	8987.6	8899.3	8601.9	8061.1	7582.7	7345.7	7543.9	8002.9	8028.8	8112.8
35°	10407.6	10317.1	10019.8	9466.0	8877.7	8339.0	8300.3	8817.4	8826.0	8914.4
37.5°	11836.3	11760.9	11444.1	10901.1	10321.5	9578.1	9218.2	9588.8	9599.6	9685.8
40°	12855.5	12887.8	12670.2	12250.0	11752.2	10939.9	10248.2	10409.8	10345.2	10489.5
42.5°	13730.3	13795.0	13605.4	13394.2	13105.4	12390.1	11523.8	11495.8	11392.4	11470.0
45°	14486.7	14540.5	14370.3	14320.7	14314.3	13812.2	12918.0	12749.9	12605.5	12590.5
47.5°	14764.6	14868.1	14941.3	15107.2	15430.5	15219.3	14359.5	14098.8	13937.2	13818.7
50°	14870.2	14980.1	15230.1	15712.7	16477.7	16568.2	15794.6	15501.6	15303.3	15087.9
52.5°	14728.0	14924.1	15260.2	16072.6	17182.3	17649.9	17171.5	16915.1	16688.9	16337.6
55°	13889.8	14085.9	14773.3	16068.3	17533.5	18408.4	18473.0	18358.8	18104.6	17550.8
57.5°	12122.9	12413.8	13501.9	15521.0	17527.1	19061.3	19748.7	19830.6	19546.1	18753.2
60°	9675.0	10069.3	11396.7	14307.8	16986.2	19414.7	20867.0	21276.4	20974.7	19938.3
62.5°	6751.0	7207.8	8464.0	12407.3	15749.4	19160.4	21683.7	22440.0	22211.6	20998.5
65°	4117.8	4264.3	5277.1	9763.4	13646.3	18095.9	21935.8	23069.2	22993.8	21647.0
67.5°	2743.1	2865.9	3156.8	6694.9	10593.0	15969.2	21332.4	22959.3	22980.9	21541.5
70°	1652.7	1758.3	1947.9	3893.7	6865.2	12640.0	19464.2	21558.7	21683.7	20130.1
72.5°	680.9	752.0	924.4	1764.8	3555.4	8022.3	15499.4	18509.7	18800.6	16925.9
75°	385.7	422.3	543.0	885.6	1542.8	3738.6	9388.4	13139.9	13568.7	11666.0
77.5°	256.4	273.7	351.2	573.2	868.4	1275.6	4012.2	6845.8	7664.6	6371.7
80°	172.4	187.5	241.3	383.6	564.6	547.3	1277.8	2536.2	3120.1	2189.3
82.5°	116.4	118.5	172.4	252.1	357.7	265.0	377.1	788.7	991.2	633.5
85°	66.8	64.6	127.1	146.5	159.5	109.9	114.2	237.0	310.3	267.2
87.5°	8.6	12.9	49.6	38.8	21.5	23.7	23.7	40.9	60.3	64.6
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°
3738.6	0°	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6	3738.6
3742.9	2.5°	3742.9	3740.7	3734.3	3727.8	3712.7	3704.1	3708.4	3704.1	3701.9	3704.1
3770.9	5°	3770.9	3764.4	3747.2	3725.6	3695.5	3658.8	3635.1	3600.7	3568.3	3548.9
3846.3	7.5°	3846.3	3839.8	3816.1	3755.8	3658.8	3505.8	3365.8	3243.0	3150.3	3096.4
3967.0	10°	3967.0	3956.2	3919.6	3786.0	3531.7	3197.7	2919.7	2689.2	2538.3	2467.2
4109.2	12.5°	4109.2	4096.3	4031.6	3758.0	3290.4	2768.9	2385.4	2128.9	1988.9	1926.4
4273.0	15°	4277.3	4260.0	4132.9	3624.4	2939.1	2294.9	1943.6	1751.8	1661.3	1605.3
4482.0	17.5°	4486.3	4456.1	4208.3	3424.0	2557.7	1932.8	1672.1	1527.7	1448.0	1394.2
4755.6	20°	4757.8	4708.2	4268.6	3184.8	2206.5	1704.4	1489.0	1368.3	1308.0	1260.6
5143.5	22.5°	5137.0	5065.9	4341.9	2926.2	1958.7	1547.1	1353.2	1264.9	1215.3	1161.4
5684.3	25°	5606.8	5522.7	4432.4	2687.0	1788.5	1411.4	1254.1	1180.8	1122.6	1060.2
6393.3	27.5°	6264.0	6113.1	4540.1	2490.9	1642.0	1295.0	1163.6	1081.7	1014.9	963.2
7197.0	30°	6996.6	6748.8	4635.0	2372.4	1508.4	1187.3	1045.1	963.2	900.7	864.1
7918.9	32.5°	7690.5	7354.3	4697.4	2320.7	1387.7	1064.5	915.8	827.4	780.0	769.3
8625.6	35°	8345.5	7901.6	4691.0	2271.2	1279.9	941.6	788.7	698.2	661.5	668.0
9386.3	37.5°	9099.7	8485.6	4645.7	2193.6	1191.6	829.6	678.8	599.0	566.7	568.9
10310.7	40°	9976.7	9160.0	4617.7	2047.1	1094.6	726.2	588.3	523.6	499.9	491.3
11284.6	42.5°	10911.9	9812.9	4622.0	1881.1	974.0	633.5	525.8	471.9	450.4	443.9
12368.5	45°	11851.4	10435.7	4628.5	1708.8	846.8	562.4	480.5	435.3	422.3	413.7
13467.5	47.5°	12734.8	10965.7	4507.8	1523.4	721.9	508.5	443.9	413.7	402.9	392.2
14570.7	50°	13558.0	11319.1	4216.9	1308.0	622.7	465.4	415.9	394.3	383.6	372.8
15570.5	52.5°	14197.9	11375.1	3736.4	1086.0	553.8	433.1	398.6	379.2	366.3	355.5
16378.6	55°	14482.4	11023.9	3053.3	879.2	499.9	405.1	381.4	362.0	346.9	336.1
17014.2	57.5°	14409.1	10284.8	2381.0	706.8	448.2	377.1	359.9	346.9	329.7	312.4
17529.2	60°	14049.2	9295.8	1794.9	588.3	400.8	346.9	336.1	325.4	301.7	275.8
17727.5	62.5°	13426.5	8052.5	1279.9	487.0	349.1	312.4	308.1	299.5	265.0	217.6
17434.4	65°	12474.1	6541.9	861.9	405.1	299.5	273.7	275.8	260.7	215.5	161.6
16361.3	67.5°	11082.1	4783.6	551.6	331.8	250.0	228.4	230.6	221.9	183.2	137.9
14327.2	70°	9308.7	3167.5	359.9	252.1	200.4	176.7	189.6	191.8	155.1	112.0
10995.9	72.5°	6824.2	1870.4	252.1	187.5	146.5	122.8	155.1	159.5	125.0	84.0
6615.2	75°	3889.4	887.8	189.6	135.8	90.5	86.2	120.7	120.7	86.2	56.0
2863.7	77.5°	1633.3	370.6	133.6	88.3	51.7	49.6	81.9	75.4	43.1	25.9
698.2	80°	471.9	165.9	71.1	43.1	21.5	19.4	32.3	23.7	10.8	4.3
265.0	82.5°	185.3	73.3	28.0	17.2	8.6	8.6	4.3	0.0	0.0	0.0
150.8	85°	109.9	30.2	12.9	6.5	2.2	0.0	0.0	0.0	0.0	0.0
32.3	87.5°	28.0	6.5	4.3	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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