

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: P850017

Luminaire Tested: **GLAN-SB7B-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850017
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-SB7B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA 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: 25041 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

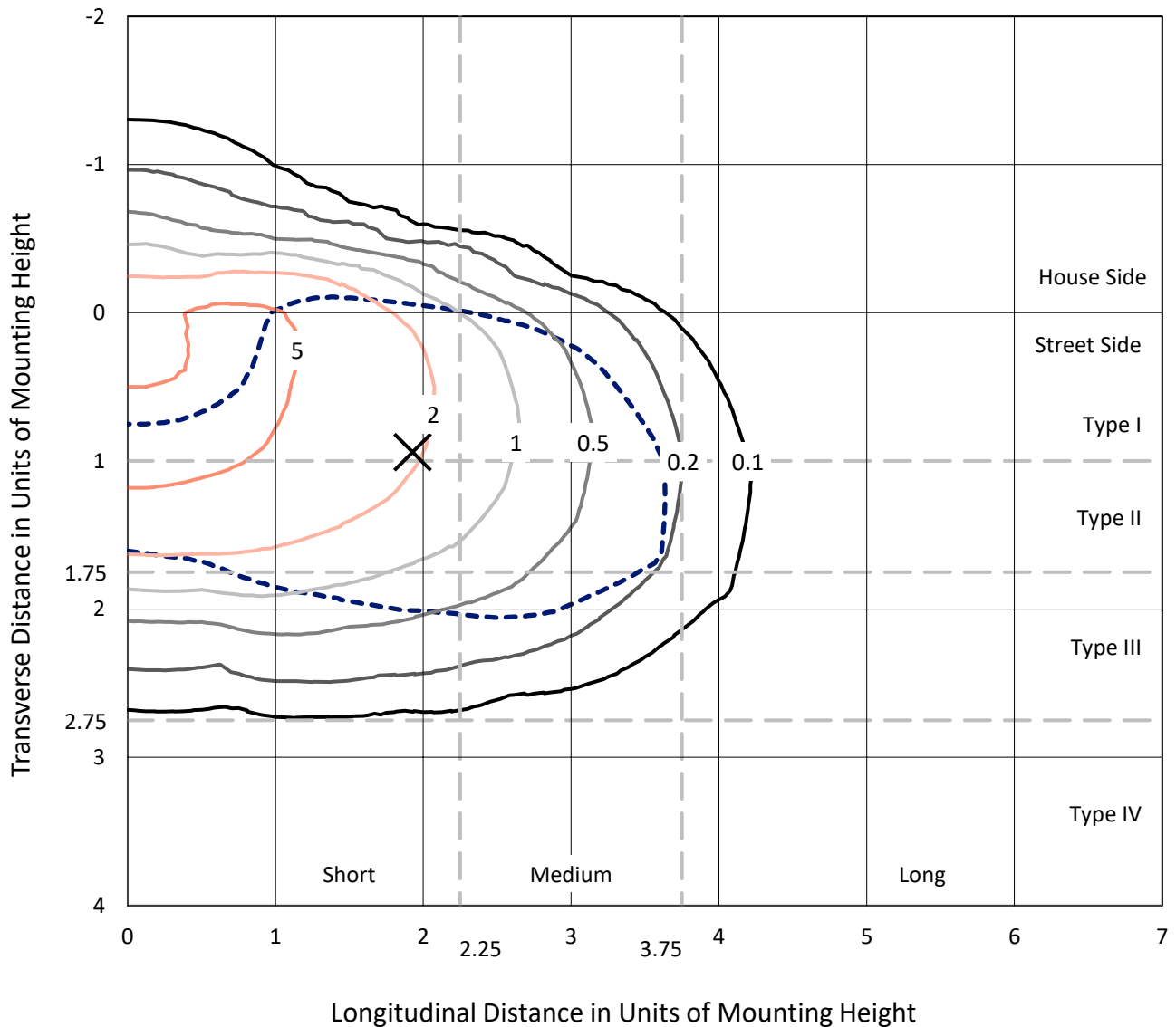
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

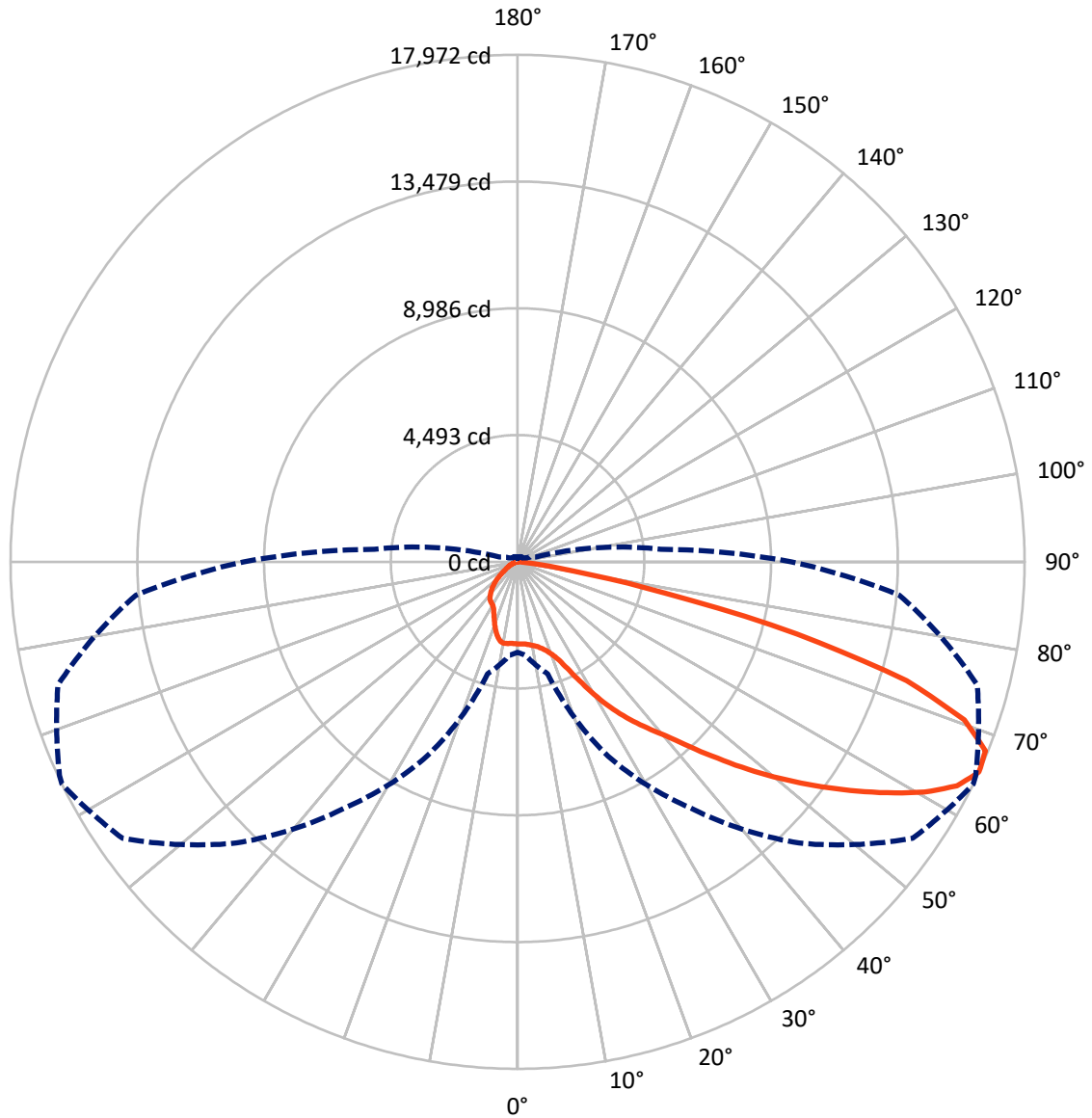
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3348.7	0.0	3348.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21692.3	0.0	21692.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	25041.0	0.0	25041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.7	1.1
10°-20°	728.8	2.9
20°-30°	1381.0	5.5
30°-40°	2794.6	11.2
40°-50°	4760.6	19.0
50°-60°	6474.1	25.9
60°-70°	6079.5	24.3
70°-80°	2435.7	9.7
80°-90°	118.0	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°	25041.0	100.0
0°-180°	25041.0	100.0

Coefficient of Utilization



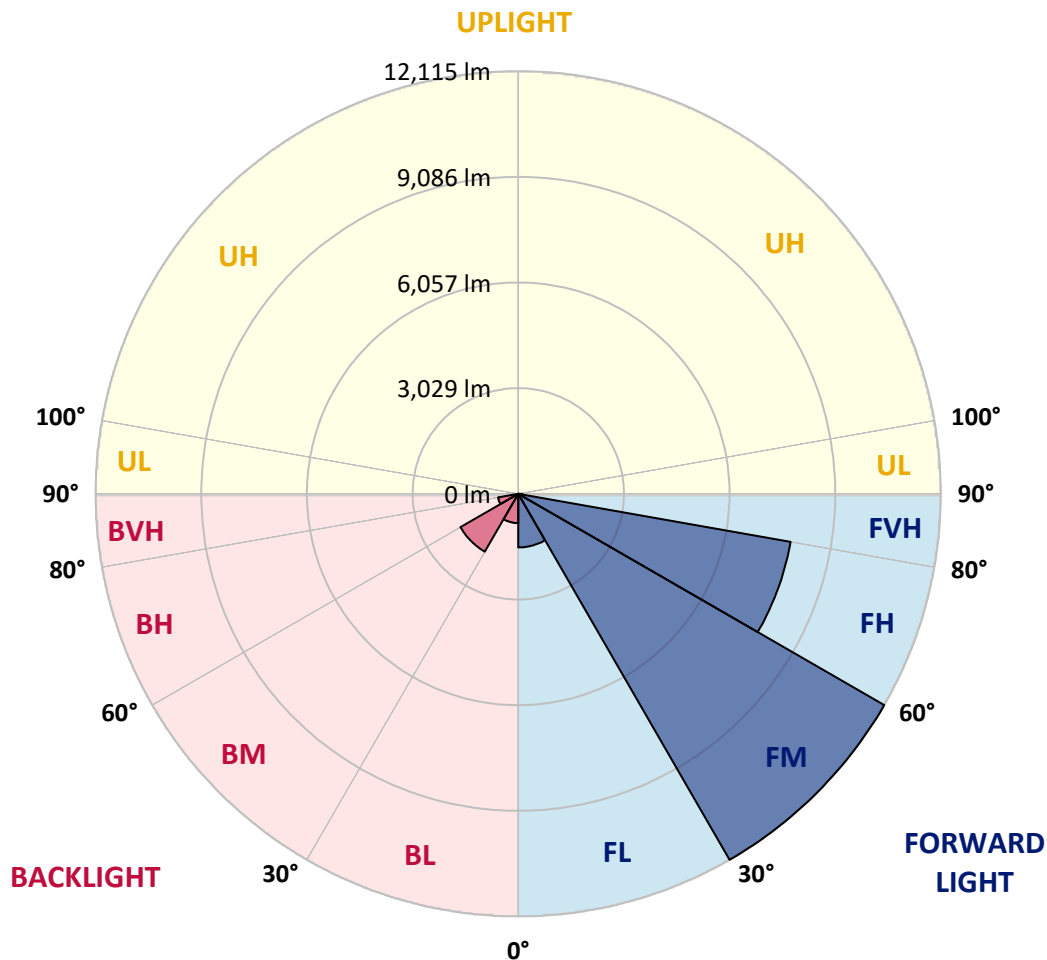
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.8	6.1			
FM (30°-60°)	12114.8	48.4			
FH (60°-80°)	7927.4	31.7			G4/12000
FVH (80°-90°)	112.2	0.4			G2/225
BL (0°-30°)	840.8	3.4	B2/1000		
BM (30°-60°)	1914.5	7.6	B2/2500		
BH (60°-80°)	587.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.8	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°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2902.5	2922.6	2917.6	2912.5	2910.8	2914.2	2915.9	2914.2	2914.2	2914.2
5°	2847.1	2863.8	2863.8	2875.6	2892.4	2912.5	2927.6	2931.0	2934.4	2939.4
7.5°	2741.3	2754.7	2764.8	2803.4	2845.4	2899.1	2944.4	2967.9	2971.3	2989.7
10°	2669.1	2685.9	2702.7	2743.0	2803.4	2884.0	2961.2	3018.3	3026.7	3070.3
12.5°	2665.8	2682.5	2704.4	2748.0	2818.5	2904.1	2998.1	3080.4	3095.5	3159.3
15°	2701.0	2721.2	2741.3	2795.0	2870.6	2974.6	3075.4	3177.8	3192.9	3283.5
17.5°	2773.2	2800.1	2815.2	2868.9	2949.5	3065.3	3197.9	3315.4	3328.8	3434.6
20°	2915.9	2947.8	2952.8	2996.5	3075.4	3199.6	3357.4	3503.4	3520.2	3641.1
22.5°	3211.3	3256.7	3216.4	3238.2	3308.7	3432.9	3604.1	3788.8	3812.3	3950.0
25°	3731.7	3795.5	3691.4	3654.5	3684.7	3814.0	4028.9	4262.2	4289.1	4399.8
27.5°	4754.1	4671.8	4514.0	4359.6	4268.9	4342.8	4584.5	4873.2	4906.8	5014.2
30°	5877.1	5804.9	5591.7	5249.3	5034.4	5022.6	5245.9	5568.2	5606.8	5709.2
32.5°	7001.8	6933.0	6701.3	6280.0	5907.3	5722.7	5877.1	6234.7	6254.8	6320.3
35°	8108.1	8037.6	7805.9	7374.5	6916.2	6496.5	6466.3	6869.2	6875.9	6944.7
37.5°	9221.0	9162.3	8915.5	8492.5	8040.9	7461.8	7181.4	7470.2	7478.6	7545.7
40°	10015.1	10040.2	9870.7	9543.4	9155.6	8522.7	7983.9	8109.8	8059.4	8171.9
42.5°	10696.6	10747.0	10599.3	10434.7	10209.8	9652.5	8977.6	8955.8	8875.2	8935.7
45°	11285.8	11327.8	11195.2	11156.6	11151.5	10760.4	10063.8	9932.8	9820.3	9808.6
47.5°	11502.4	11583.0	11640.0	11769.3	12021.1	11856.6	11186.8	10983.7	10857.8	10765.4
50°	11584.6	11670.3	11865.0	12241.0	12836.9	12907.5	12304.8	12076.5	11922.1	11754.2
52.5°	11473.9	11626.6	11888.5	12521.4	13385.9	13750.2	13377.5	13177.7	13001.5	12727.8
55°	10820.8	10973.6	11509.1	12518.0	13659.5	14341.1	14391.4	14302.4	14104.4	13672.9
57.5°	9444.3	9670.9	10518.7	12091.6	13654.5	14849.7	15385.2	15449.0	15227.4	14609.6
60°	7537.3	7844.5	8878.6	11146.5	13233.1	15125.0	16256.4	16575.4	16340.4	15532.9
62.5°	5259.3	5615.2	6593.9	9665.9	12269.6	14926.9	16892.7	17481.9	17303.9	16358.8
65°	3208.0	3322.1	4111.1	7606.1	10631.1	14097.6	17089.1	17972.1	17913.3	16864.1
67.5°	2137.0	2232.7	2459.3	5215.7	8252.4	12440.8	16619.0	17886.4	17903.2	16781.9
70°	1287.6	1369.8	1517.5	3033.4	5348.3	9847.2	15163.6	16795.3	16892.7	15682.3
72.5°	530.5	585.9	720.2	1374.8	2769.8	6249.8	12074.8	14420.0	14646.6	13186.1
75°	300.5	329.0	423.0	689.9	1201.9	2912.5	7314.1	10236.7	10570.7	9088.4
77.5°	199.8	213.2	273.6	446.5	676.5	993.8	3125.7	5333.2	5971.1	4963.9
80°	134.3	146.0	188.0	298.8	439.8	426.4	995.5	1975.8	2430.7	1705.5
82.5°	90.6	92.3	134.3	196.4	278.7	206.5	293.8	614.4	772.2	493.5
85°	52.0	50.4	99.0	114.2	124.2	85.6	89.0	184.7	241.7	208.2
87.5°	6.7	10.1	38.6	30.2	16.8	18.5	18.5	31.9	47.0	50.4
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°
2912.5	0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2915.9	2.5°	2915.9	2914.2	2909.2	2904.1	2892.4	2885.7	2889.0	2885.7	2884.0	2885.7
2937.7	5°	2937.7	2932.7	2919.2	2902.5	2879.0	2850.4	2832.0	2805.1	2779.9	2764.8
2996.5	7.5°	2996.5	2991.4	2973.0	2926.0	2850.4	2731.2	2622.1	2526.4	2454.2	2412.3
3090.5	10°	3090.5	3082.1	3053.5	2949.5	2751.4	2491.2	2274.6	2095.0	1977.5	1922.1
3201.3	12.5°	3201.3	3191.2	3140.8	2927.6	2563.4	2157.1	1858.3	1658.5	1549.4	1500.7
3328.8	15°	3332.2	3318.8	3219.7	2823.6	2289.7	1787.8	1514.2	1364.8	1294.3	1250.6
3491.7	17.5°	3495.0	3471.5	3278.5	2667.4	1992.6	1505.8	1302.7	1190.2	1128.1	1086.1
3704.9	20°	3706.5	3667.9	3325.5	2481.1	1719.0	1327.8	1160.0	1066.0	1019.0	982.0
4007.0	22.5°	4002.0	3946.6	3382.6	2279.7	1525.9	1205.3	1054.2	985.4	946.8	904.8
4428.4	25°	4368.0	4302.5	3453.1	2093.3	1393.3	1099.5	977.0	919.9	874.6	825.9
4980.7	27.5°	4880.0	4762.4	3537.0	1940.6	1279.2	1008.9	906.5	842.7	790.7	750.4
5606.8	30°	5450.7	5257.7	3610.9	1848.2	1175.1	925.0	814.2	750.4	701.7	673.2
6169.2	32.5°	5991.2	5729.4	3659.5	1807.9	1081.1	829.3	713.4	644.6	607.7	599.3
6719.8	35°	6501.6	6155.8	3654.5	1769.3	997.1	733.6	614.4	543.9	515.4	520.4
7312.4	37.5°	7089.1	6610.7	3619.3	1708.9	928.3	646.3	528.8	466.7	441.5	443.2
8032.5	40°	7772.3	7136.1	3597.4	1594.8	852.8	565.7	458.3	407.9	389.5	382.7
8791.3	42.5°	8500.9	7644.8	3600.8	1465.5	758.8	493.5	409.6	367.6	350.8	345.8
9635.7	45°	9232.8	8129.9	3605.8	1331.2	659.7	438.1	374.3	339.1	329.0	322.3
10491.8	47.5°	9921.1	8542.9	3511.8	1186.8	562.4	396.2	345.8	322.3	313.9	305.5
11351.3	50°	10562.3	8818.2	3285.2	1019.0	485.1	362.6	324.0	307.2	298.8	290.4
12130.2	52.5°	11060.9	8861.8	2910.8	846.1	431.4	337.4	310.6	295.4	285.4	277.0
12759.7	55°	11282.5	8588.2	2378.7	684.9	389.5	315.6	297.1	282.0	270.3	261.9
13254.9	57.5°	11225.4	8012.4	1855.0	550.6	349.2	293.8	280.3	270.3	256.8	243.4
13656.1	60°	10945.1	7241.9	1398.3	458.3	312.2	270.3	261.9	253.5	235.0	214.9
13810.6	62.5°	10459.9	6273.3	997.1	379.4	271.9	243.4	240.1	233.3	206.5	169.5
13582.3	65°	9717.9	5096.5	671.5	315.6	233.3	213.2	214.9	203.1	167.9	125.9
12746.3	67.5°	8633.5	3726.7	429.7	258.5	194.7	177.9	179.6	172.9	142.7	107.4
11161.6	70°	7251.9	2467.7	280.3	196.4	156.1	137.7	147.7	149.4	120.9	87.3
8566.4	72.5°	5316.4	1457.1	196.4	146.0	114.2	95.7	120.9	124.2	97.4	65.5
5153.6	75°	3030.0	691.6	147.7	105.8	70.5	67.1	94.0	94.0	67.1	43.6
2231.0	77.5°	1272.4	288.7	104.1	68.8	40.3	38.6	63.8	58.8	33.6	20.1
543.9	80°	367.6	129.3	55.4	33.6	16.8	15.1	25.2	18.5	8.4	3.4
206.5	82.5°	144.4	57.1	21.8	13.4	6.7	6.7	3.4	0.0	0.0	0.0
117.5	85°	85.6	23.5	10.1	5.0	1.7	0.0	0.0	0.0	0.0	0.0
25.2	87.5°	21.8	5.0	3.4	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°
2912.5
2892.4
2768.2
2414.0
1917.1
1495.7
1252.3
1082.8
975.3
898.1
820.9
742.0
668.1
604.3
520.4
449.9
381.1
344.1
322.3
305.5
290.4
275.3
260.2
241.7
211.5
166.2
122.5
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