

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: P849845

Luminaire Tested: **GLAN-SB7A-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18573 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

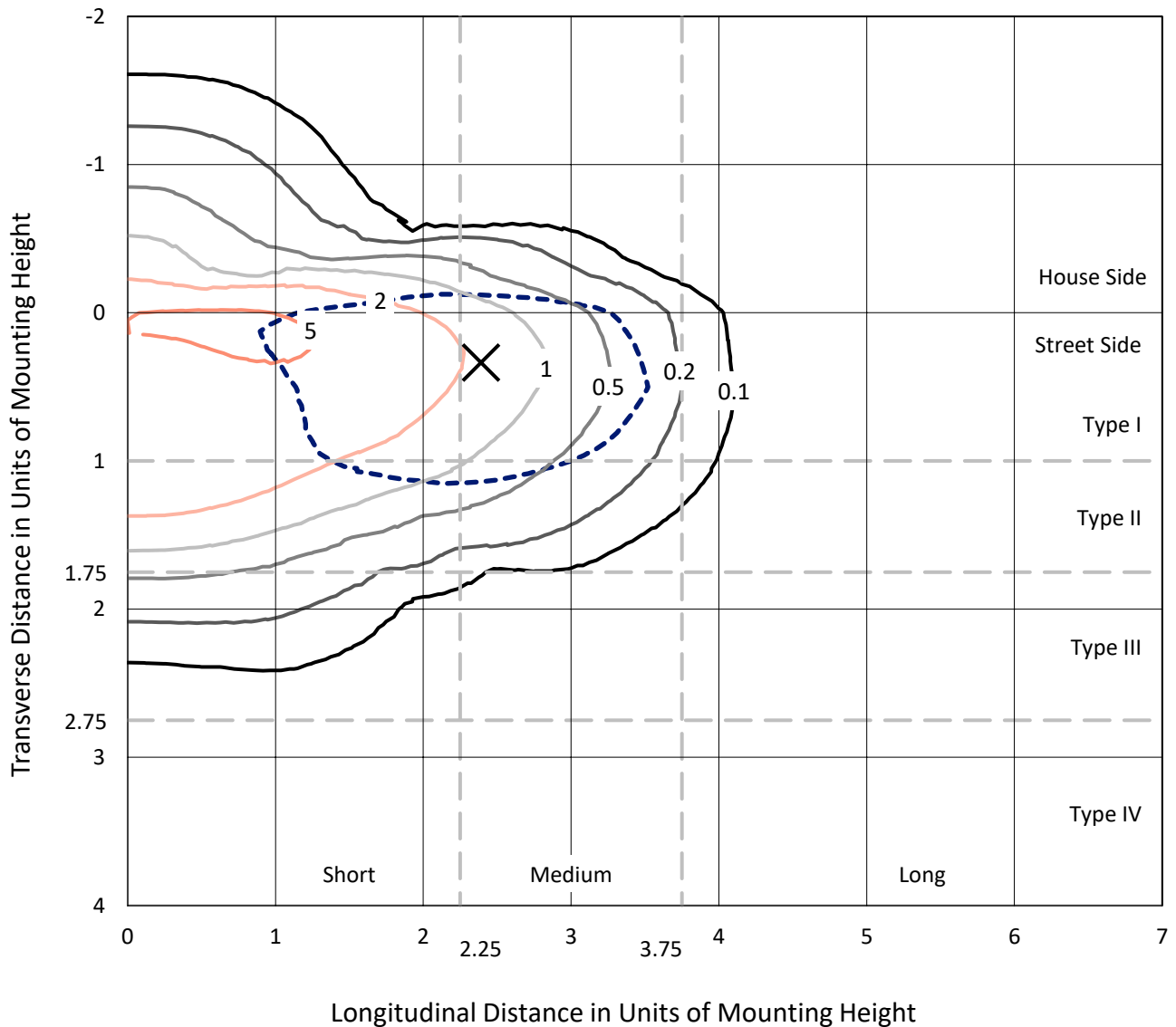
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

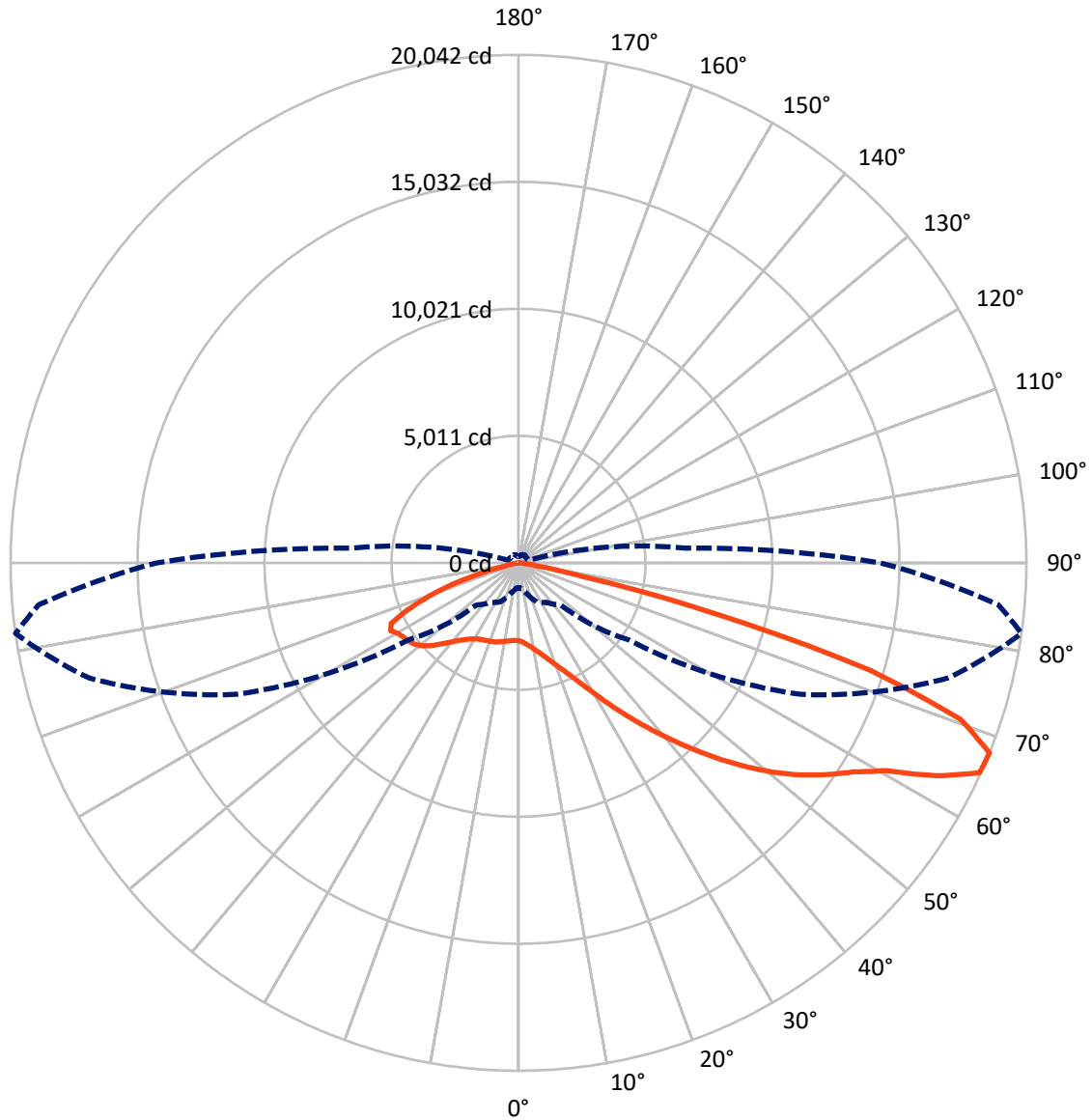
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3364.3	0.0	3364.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15208.7	0.0	15208.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	18573.0	0.0	18573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	1.5
10°-20°	712.4	3.8
20°-30°	1141.0	6.1
30°-40°	2017.6	10.9
40°-50°	3535.0	19.0
50°-60°	4714.7	25.4
60°-70°	4389.1	23.6
70°-80°	1684.5	9.1
80°-90°	104.6	0.6
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°	18573.0	100.0
0°-180°	18573.0	100.0

Coefficient of Utilization

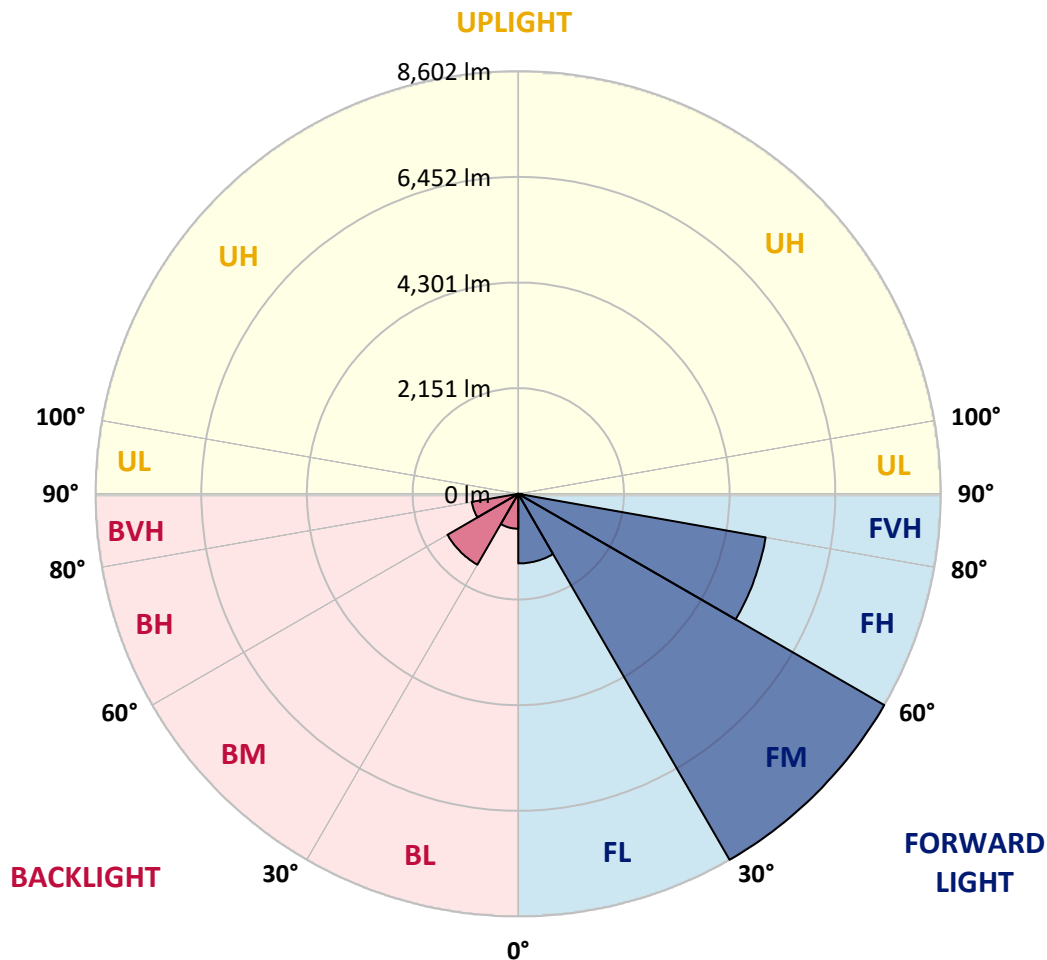


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.9	7.6			
FM (30°-60°)	8602.3	46.3			
FH (60°-80°)	5113.4	27.5			G3/7500
FVH (80°-90°)	76.1	0.4			G1/100
BL (0°-30°)	710.5	3.8	B2/1000		
BM (30°-60°)	1665.0	9.0	B2/2500		
BH (60°-80°)	960.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	28.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9
2.5°	3252.1	3270.8	3260.1	3254.8	3245.4	3232.0	3221.3	3187.9	3153.1	3130.4
5°	3317.6	3336.3	3335.0	3340.3	3347.0	3351.0	3348.4	3310.9	3261.5	3222.7
7.5°	3261.5	3282.8	3300.2	3327.0	3373.8	3423.3	3447.3	3439.3	3388.5	3335.0
10°	3102.3	3125.1	3166.5	3229.4	3328.3	3435.3	3524.9	3566.3	3534.2	3475.4
12.5°	2810.8	2833.5	2915.1	3051.5	3217.3	3403.2	3574.4	3685.3	3693.4	3634.5
15°	2483.2	2505.9	2592.8	2764.0	3016.7	3314.9	3601.1	3811.0	3881.9	3831.1
17.5°	2279.9	2300.0	2365.5	2503.3	2766.7	3138.4	3591.7	3944.8	4106.6	4066.5
20°	2218.4	2235.8	2266.6	2362.8	2582.2	2955.2	3530.2	4070.5	4348.6	4325.9
22.5°	2284.0	2300.0	2309.4	2352.2	2489.9	2834.9	3452.7	4198.8	4629.4	4632.1
25°	2435.1	2451.1	2440.4	2467.2	2527.3	2797.4	3423.3	4349.9	4982.4	5011.9
27.5°	2683.8	2685.1	2659.7	2658.4	2667.7	2853.6	3454.0	4511.7	5427.7	5482.6
30°	3182.6	3162.5	3064.9	2959.2	2911.1	3022.1	3539.6	4703.0	5953.3	6050.9
32.5°	3951.5	3922.0	3742.8	3490.1	3236.0	3293.5	3693.4	4920.9	6525.6	6702.1
35°	4785.9	4777.8	4590.6	4214.9	3770.9	3680.0	3943.4	5207.1	7150.1	7430.9
37.5°	5561.5	5557.4	5450.5	5007.8	4467.6	4218.9	4344.6	5581.5	7818.7	8225.2
40°	6270.2	6282.2	6175.2	5779.4	5235.2	4910.2	4890.2	6044.2	8562.1	9090.3
42.5°	6882.6	6896.0	6787.7	6494.8	5993.4	5675.1	5560.1	6611.2	9288.3	10019.7
45°	7298.5	7381.4	7365.3	7131.3	6771.6	6441.3	6365.1	7322.6	10116.0	11005.2
47.5°	7416.2	7492.4	7612.7	7644.8	7425.5	7100.6	7191.5	8179.7	10953.1	11992.1
50°	7126.0	7196.9	7446.9	7779.9	7932.3	7832.0	7995.2	9098.4	11810.2	12976.3
52.5°	6553.7	6625.9	6941.5	7468.3	8090.1	8405.7	8801.5	10003.7	12640.6	13908.3
55°	5725.9	5802.1	6207.3	6803.7	7789.2	8642.4	9474.1	10907.6	13401.5	14746.7
57.5°	4600.0	4656.2	5077.4	5911.8	7032.4	8407.0	9970.2	11894.5	14118.3	15570.5
60°	2998.0	3047.5	3536.9	4467.6	5778.1	7620.8	10069.2	12995.0	15070.3	16641.6
62.5°	1993.8	2027.2	2317.4	3000.7	4069.1	6111.0	9490.2	13873.5	16466.4	18505.6
65°	1368.0	1401.4	1691.6	2167.6	2629.0	4042.4	7825.3	13757.2	17731.4	19985.9
67.5°	976.2	1004.2	1250.3	1699.6	1902.8	2348.1	5304.7	12270.2	17549.5	20042.1
70°	699.4	715.4	918.7	1323.8	1512.4	1410.8	2949.9	9384.5	15365.9	18507.0
72.5°	489.4	494.8	637.8	1008.3	1218.2	1029.7	1404.1	6256.8	11621.7	14526.1
75°	331.6	338.3	429.2	739.5	977.5	786.3	743.5	3355.1	6822.4	8040.6
77.5°	203.3	205.9	276.8	505.5	731.5	599.1	478.7	1421.5	2639.7	2591.5
80°	115.0	115.0	176.5	314.2	498.8	386.5	335.6	604.4	835.8	734.1
82.5°	64.2	65.5	128.4	195.2	330.3	228.7	184.5	279.5	361.0	319.6
85°	26.7	29.4	78.9	92.3	157.8	113.7	74.9	117.7	133.7	119.0
87.5°	2.7	4.0	24.1	17.4	18.7	22.7	10.7	22.7	18.7	18.7
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°
3076.9	0°	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9
3122.4	2.5°	3097.0	3076.9	3026.1	2967.3	2889.7	2852.3	2801.5	2766.7	2737.3	2739.9
3199.9	5°	3157.2	3106.3	2992.7	2850.9	2674.4	2548.7	2415.0	2322.7	2247.8	2231.8
3306.9	7.5°	3240.1	3159.8	2960.6	2705.2	2407.0	2181.0	1979.1	1849.4	1757.1	1727.7
3436.6	10°	3347.0	3230.7	2919.1	2522.0	2092.7	1805.2	1588.6	1487.0	1424.1	1402.7
3589.1	12.5°	3471.4	3312.3	2864.3	2298.7	1769.1	1492.3	1354.6	1303.8	1283.7	1277.0
3776.3	15°	3627.8	3413.9	2781.4	2033.9	1495.0	1301.1	1242.3	1235.6	1238.3	1235.6
4000.9	17.5°	3813.7	3524.9	2646.3	1761.1	1310.5	1203.5	1182.1	1187.4	1194.1	1192.8
4252.3	20°	4017.0	3634.5	2473.8	1519.1	1184.8	1134.0	1121.9	1127.3	1132.6	1129.9
4542.5	22.5°	4248.3	3752.2	2282.6	1330.5	1100.5	1069.8	1056.4	1057.7	1057.7	1052.4
4910.2	25°	4525.1	3881.9	2082.0	1196.8	1036.3	1012.3	996.2	990.9	982.8	966.8
5356.9	27.5°	4855.4	4019.6	1889.5	1103.2	985.5	962.8	944.1	930.7	910.6	883.9
5893.1	30°	5227.1	4186.8	1726.3	1044.4	945.4	922.7	901.3	881.2	851.8	818.4
6509.5	32.5°	5664.4	4366.0	1607.3	1005.6	909.3	885.2	859.8	835.8	803.7	770.2
7202.2	35°	6185.9	4582.6	1537.8	978.8	881.2	849.1	821.0	794.3	770.2	740.8
7955.1	37.5°	6751.6	4812.6	1516.4	965.5	862.5	813.0	780.9	762.2	759.5	742.2
8769.4	40°	7370.7	5085.4	1532.4	957.4	842.4	778.3	743.5	739.5	746.2	715.4
9639.9	42.5°	8025.9	5409.0	1559.2	948.1	814.4	743.5	710.1	710.1	704.7	661.9
10559.9	45°	8734.6	5782.1	1585.9	925.3	780.9	708.7	683.3	674.0	651.2	609.8
11485.3	47.5°	9448.7	6161.9	1606.0	883.9	740.8	679.3	656.6	635.2	601.7	564.3
12393.3	50°	10126.7	6502.8	1584.6	822.4	695.3	651.2	627.2	597.7	561.6	536.2
13253.1	52.5°	10732.4	6798.4	1493.7	750.2	647.2	621.8	600.4	569.7	540.2	513.5
14028.7	55°	11259.3	7037.7	1333.2	682.0	604.4	596.4	575.0	536.2	496.1	473.4
14797.6	57.5°	11764.8	7219.6	1132.6	625.8	565.6	568.3	536.2	501.5	464.0	439.9
15833.9	60°	12437.4	7463.0	929.4	573.7	524.2	532.2	497.4	472.0	425.2	394.5
17611.0	62.5°	13512.5	7841.4	738.1	509.5	476.0	478.7	464.0	433.3	377.1	341.0
18928.2	65°	14365.6	7702.3	581.7	439.9	421.2	425.2	425.2	391.8	331.6	290.2
18999.1	67.5°	14269.4	6595.1	464.0	371.7	369.1	371.7	381.1	353.0	294.2	260.8
17552.2	70°	13144.8	5245.9	371.7	308.9	320.9	314.2	341.0	322.3	264.8	231.3
13607.4	72.5°	10725.8	3779.0	283.5	255.4	246.0	256.7	307.6	290.2	220.6	183.2
7207.6	75°	6267.5	2016.5	211.3	201.9	177.8	214.0	272.8	247.4	168.5	135.1
2209.1	77.5°	2040.6	703.4	155.1	148.4	132.4	172.5	232.7	208.6	137.7	107.0
647.2	80°	546.9	212.6	105.6	97.6	85.6	128.4	184.5	165.8	99.0	69.5
278.1	82.5°	219.3	89.6	61.5	54.8	46.8	88.3	145.8	133.7	73.5	44.1
86.9	85°	70.9	29.4	22.7	17.4	21.4	54.8	86.9	90.9	52.2	22.7
13.4	87.5°	9.4	4.0	4.0	5.3	4.0	9.4	26.7	25.4	14.7	2.7
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°
3076.9
2713.2
2195.7
1698.3
1386.7
1273.0
1234.2
1190.1
1128.6
1049.7
964.1
881.2
815.7
771.6
738.1
740.8
716.7
661.9
608.4
563.0
532.2
510.8
470.7
437.3
390.5
338.3
286.2
255.4
227.3
179.2
131.0
103.0
68.2
44.1
17.4
0.0
0.0

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