

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: P847915

Luminaire Tested: **GLAN-SB4B-727-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847915
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-SB4B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA 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: 14656 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

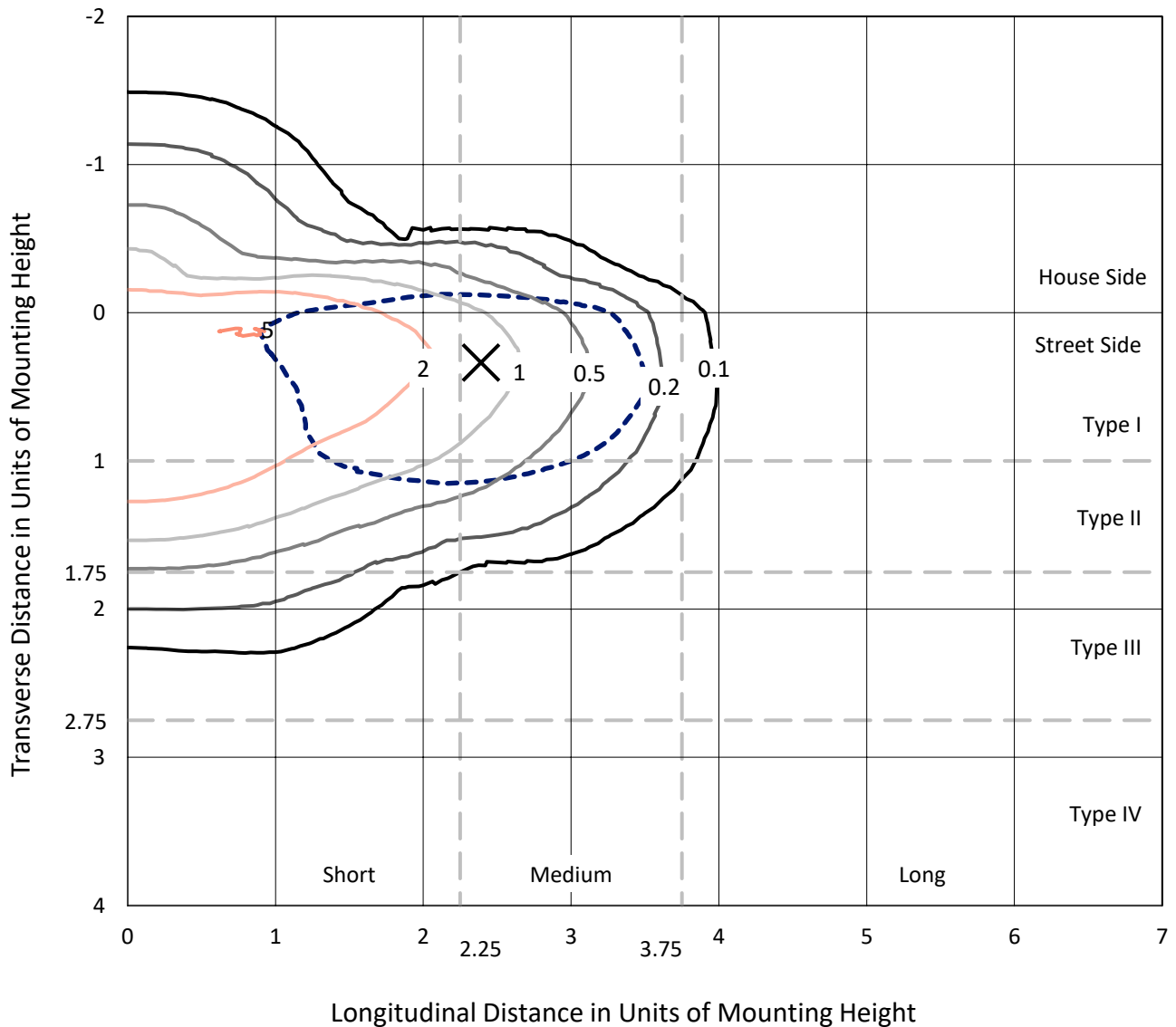
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

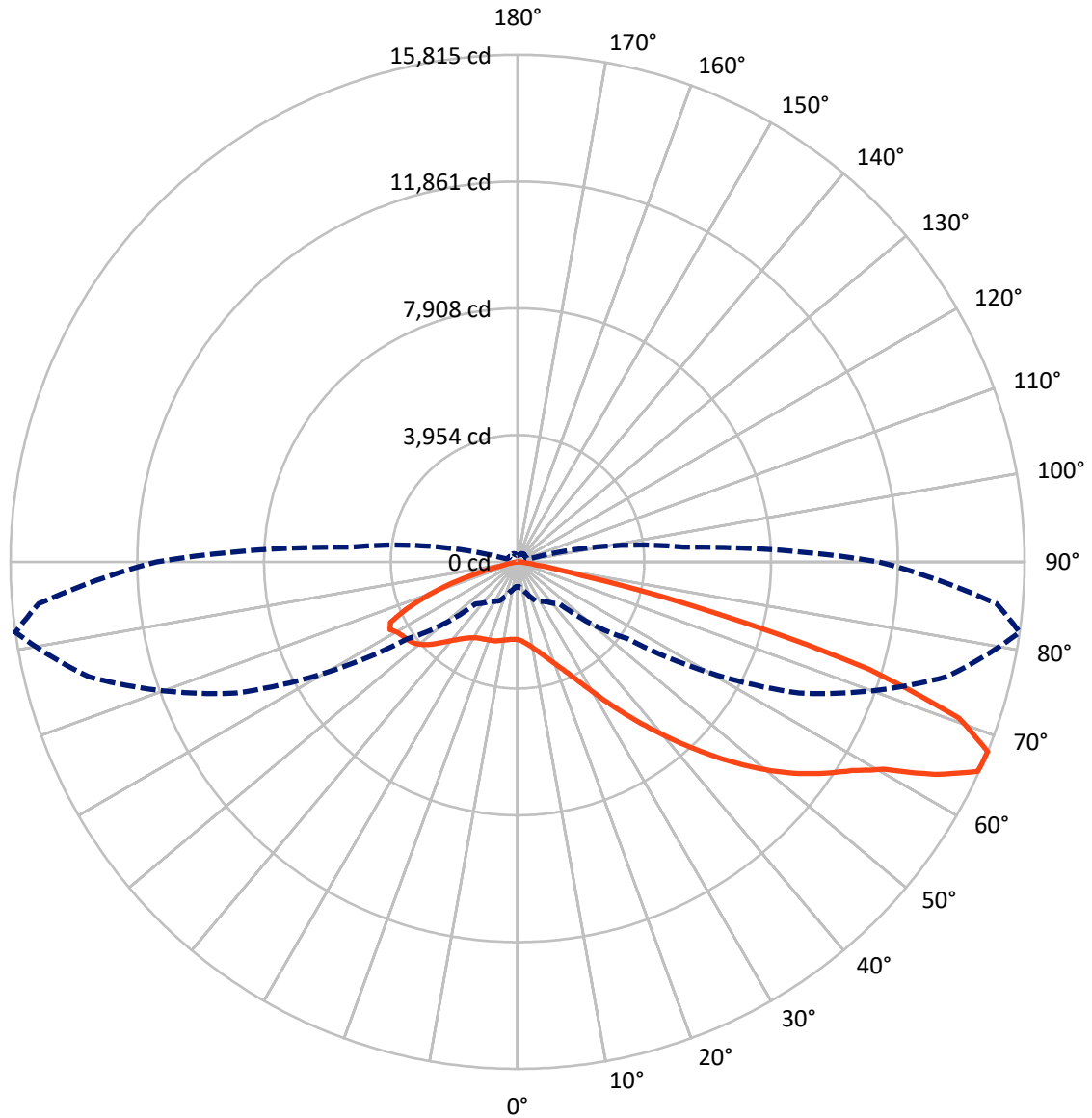
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2654.8	0.0	2654.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12001.2	0.0	12001.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	14656.0	0.0	14656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.5
10°-20°	562.1	3.8
20°-30°	900.3	6.1
30°-40°	1592.1	10.9
40°-50°	2789.5	19.0
50°-60°	3720.4	25.4
60°-70°	3463.5	23.6
70°-80°	1329.3	9.1
80°-90°	82.6	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°	14656.0	100.0
0°-180°	14656.0	100.0

Coefficient of Utilization

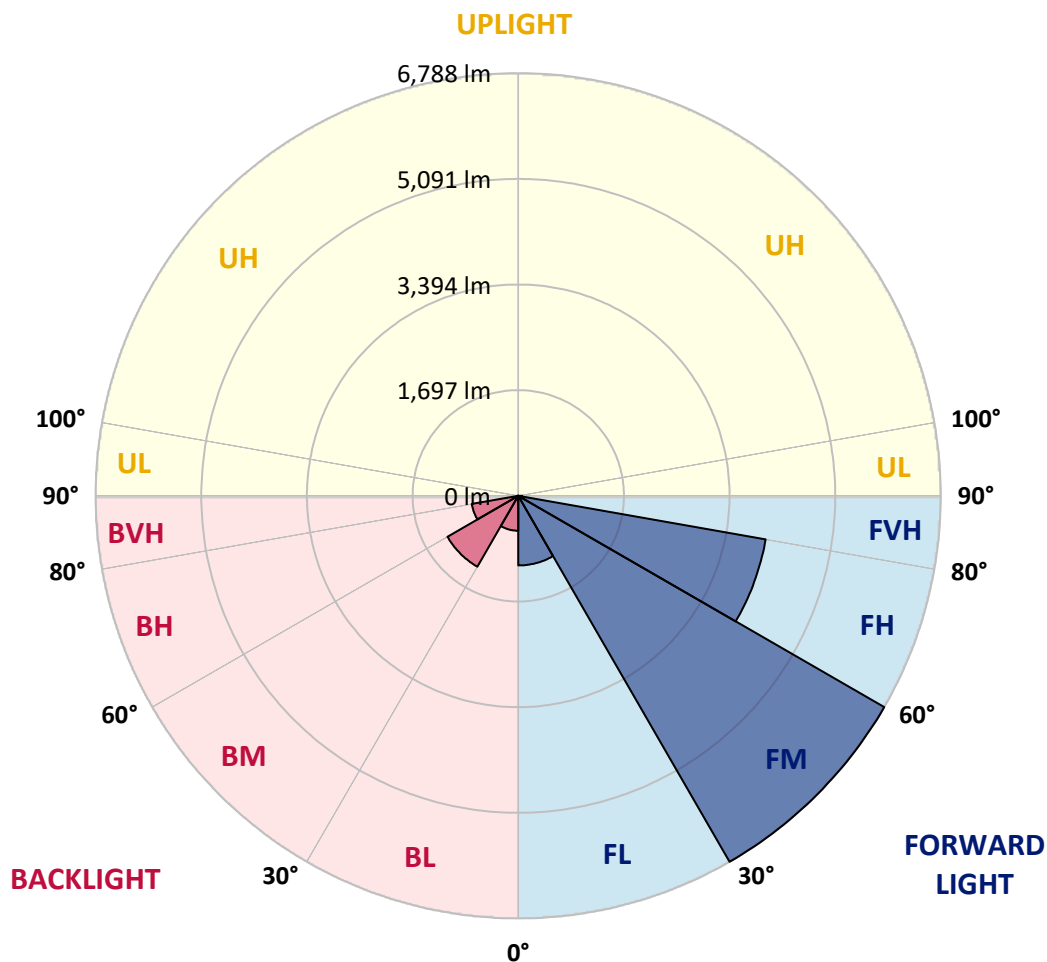


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.1	7.6			
FM (30°-60°)	6788.1	46.3			
FH (60°-80°)	4035.0	27.5			G2/5000
FVH (80°-90°)	60.0	0.4			G1/100
BL (0°-30°)	560.7	3.8	B2/1000		
BM (30°-60°)	1313.9	9.0	B2/2500		
BH (60°-80°)	757.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.5	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-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0
2.5°	2566.2	2581.0	2572.6	2568.3	2561.0	2550.4	2542.0	2515.6	2488.1	2470.2
5°	2617.9	2632.7	2631.7	2635.9	2641.2	2644.3	2642.2	2612.7	2573.6	2543.0
7.5°	2573.6	2590.5	2604.2	2625.3	2662.3	2701.3	2720.3	2714.0	2673.9	2631.7
10°	2448.1	2466.0	2498.7	2548.3	2626.4	2710.8	2781.5	2814.2	2788.9	2742.5
12.5°	2218.0	2236.0	2300.3	2408.0	2538.8	2685.5	2820.5	2908.1	2914.4	2868.0
15°	1959.5	1977.4	2046.0	2181.1	2380.5	2615.8	2841.6	3007.3	3063.2	3023.1
17.5°	1799.1	1814.9	1866.6	1975.3	2183.2	2476.5	2834.3	3112.8	3240.5	3208.8
20°	1750.6	1764.3	1788.6	1864.5	2037.6	2332.0	2785.7	3212.0	3431.5	3413.6
22.5°	1802.3	1814.9	1822.3	1856.1	1964.8	2237.0	2724.5	3313.3	3653.1	3655.2
25°	1921.5	1934.2	1925.7	1946.8	1994.3	2207.5	2701.3	3432.5	3931.7	3954.9
27.5°	2117.8	2118.8	2098.8	2097.7	2105.1	2251.8	2725.6	3560.2	4283.0	4326.3
30°	2511.4	2495.5	2418.5	2335.1	2297.2	2384.7	2793.1	3711.1	4697.7	4774.8
32.5°	3118.1	3094.9	2953.5	2754.1	2553.6	2598.9	2914.4	3883.1	5149.4	5288.6
35°	3776.5	3770.2	3622.5	3326.0	2975.6	2903.9	3111.8	4108.9	5642.1	5863.7
37.5°	4388.6	4385.4	4301.0	3951.7	3525.4	3329.1	3428.3	4404.4	6169.7	6490.5
40°	4947.8	4957.3	4872.9	4560.6	4131.1	3874.7	3858.8	4769.5	6756.4	7173.2
42.5°	5431.1	5441.6	5356.2	5125.1	4729.4	4478.2	4387.5	5216.9	7329.4	7906.6
45°	5759.3	5824.7	5812.0	5627.4	5343.5	5082.9	5022.7	5778.2	7982.5	8684.3
47.5°	5852.1	5912.3	6007.2	6032.5	5859.5	5603.1	5674.8	6454.6	8643.1	9463.0
50°	5623.1	5679.1	5876.4	6139.1	6259.4	6180.3	6309.0	7179.5	9319.5	10239.6
52.5°	5171.5	5228.5	5477.5	5893.3	6383.9	6633.0	6945.3	7893.9	9974.8	10975.1
55°	4518.3	4578.5	4898.2	5368.8	6146.5	6819.7	7476.1	8607.2	10575.2	11636.7
57.5°	3629.9	3674.2	4006.6	4665.0	5549.3	6634.0	7867.5	9386.0	11140.7	12286.7
60°	2365.7	2404.8	2791.0	3525.4	4559.5	6013.6	7945.6	10254.4	11892.0	13131.9
62.5°	1573.3	1599.7	1828.7	2367.9	3211.0	4822.2	7488.7	10947.6	12993.7	14602.8
65°	1079.5	1105.8	1334.8	1710.5	2074.5	3189.9	6175.0	10855.8	13991.9	15770.9
67.5°	770.3	792.5	986.6	1341.2	1501.5	1852.9	4186.0	9682.5	13848.4	15815.3
70°	551.9	564.5	724.9	1044.6	1193.4	1113.2	2327.8	7405.4	12125.2	14603.9
72.5°	386.2	390.4	503.3	795.6	961.3	812.5	1108.0	4937.3	9170.7	11462.6
75°	261.7	267.0	338.7	583.5	771.3	620.5	586.7	2647.5	5383.6	6344.9
77.5°	160.4	162.5	218.4	398.9	577.2	472.7	377.8	1121.7	2083.0	2045.0
80°	90.7	90.7	139.3	248.0	393.6	305.0	264.9	476.9	659.5	579.3
82.5°	50.6	51.7	101.3	154.1	260.6	180.4	145.6	220.5	284.9	252.2
85°	21.1	23.2	62.3	72.8	124.5	89.7	59.1	92.9	105.5	93.9
87.5°	2.1	3.2	19.0	13.7	14.8	17.9	8.4	17.9	14.8	14.8
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°
2428.0	0°	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0
2463.9	2.5°	2443.8	2428.0	2387.9	2341.5	2280.3	2250.7	2210.6	2183.2	2160.0	2162.1
2525.1	5°	2491.3	2451.2	2361.5	2249.7	2110.4	2011.2	1905.7	1832.9	1773.8	1761.1
2609.5	7.5°	2556.7	2493.4	2336.2	2134.7	1899.4	1721.0	1561.7	1459.3	1386.5	1363.3
2711.9	10°	2641.2	2549.4	2303.5	1990.1	1651.4	1424.5	1253.6	1173.4	1123.8	1106.9
2832.1	12.5°	2739.3	2613.7	2260.2	1813.9	1396.0	1177.6	1068.9	1028.8	1013.0	1007.7
2979.9	15°	2862.7	2693.9	2194.8	1605.0	1179.7	1026.7	980.3	975.0	977.1	975.0
3157.1	17.5°	3009.4	2781.5	2088.2	1389.7	1034.1	949.7	932.8	937.0	942.3	941.2
3355.5	20°	3169.8	2868.0	1952.1	1198.7	934.9	894.8	885.3	889.5	893.7	891.6
3584.5	22.5°	3352.4	2960.9	1801.2	1049.9	868.4	844.2	833.6	834.7	834.7	830.4
3874.7	25°	3570.8	3063.2	1642.9	944.4	817.8	798.8	786.1	781.9	775.6	762.9
4227.1	27.5°	3831.4	3171.9	1491.0	870.5	777.7	759.7	745.0	734.4	718.6	697.5
4650.2	30°	4124.8	3303.8	1362.3	824.1	746.0	728.1	711.2	695.4	672.2	645.8
5136.7	32.5°	4469.8	3445.2	1268.3	793.5	717.5	698.5	678.5	659.5	634.2	607.8
5683.3	35°	4881.3	3616.2	1213.5	772.4	695.4	670.0	647.9	626.8	607.8	584.6
6277.4	37.5°	5327.7	3797.6	1196.6	761.9	680.6	641.6	616.2	601.5	599.4	585.6
6920.0	40°	5816.2	4012.9	1209.3	755.5	664.8	614.1	586.7	583.5	588.8	564.5
7606.9	42.5°	6333.3	4268.3	1230.4	748.1	642.6	586.7	560.3	560.3	556.1	522.3
8332.9	45°	6892.5	4562.7	1251.5	730.2	616.2	559.3	539.2	531.8	513.9	481.2
9063.1	47.5°	7456.0	4862.3	1267.3	697.5	584.6	536.0	518.1	501.2	474.8	445.3
9779.5	50°	7991.0	5131.4	1250.4	648.9	548.7	513.9	494.9	471.7	443.2	423.1
10458.0	52.5°	8469.0	5364.6	1178.7	592.0	510.7	490.7	473.8	449.5	426.3	405.2
11070.0	55°	8884.7	5553.5	1052.0	538.1	476.9	470.6	453.7	423.1	391.5	373.5
11676.8	57.5°	9283.6	5697.0	893.7	493.8	446.3	448.5	423.1	395.7	366.2	347.2
12494.6	60°	9814.4	5889.0	733.4	452.7	413.6	420.0	392.5	372.5	335.6	311.3
13896.9	62.5°	10662.7	6187.7	582.5	402.0	375.6	377.8	366.2	341.9	297.6	269.1
14936.3	65°	11336.0	6077.9	459.0	347.2	332.4	335.6	335.6	309.2	261.7	229.0
14992.2	67.5°	11260.0	5204.2	366.2	293.3	291.2	293.3	300.7	278.6	232.1	205.8
13850.5	70°	10372.6	4139.5	293.3	243.7	253.2	248.0	269.1	254.3	208.9	182.5
10737.7	72.5°	8463.7	2982.0	223.7	201.5	194.2	202.6	242.7	229.0	174.1	144.6
5687.5	75°	4945.7	1591.2	166.7	159.3	140.3	168.8	215.3	195.2	133.0	106.6
1743.2	77.5°	1610.2	555.0	122.4	117.1	104.5	136.1	183.6	164.6	108.7	84.4
510.7	80°	431.6	167.8	83.4	77.0	67.5	101.3	145.6	130.8	78.1	54.9
219.5	82.5°	173.1	70.7	48.5	43.3	36.9	69.6	115.0	105.5	58.0	34.8
68.6	85°	55.9	23.2	17.9	13.7	16.9	43.3	68.6	71.8	41.2	17.9
10.6	87.5°	7.4	3.2	3.2	4.2	3.2	7.4	21.1	20.0	11.6	2.1
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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2428.0
2141.0
1732.6
1340.1
1094.2
1004.5
973.9
939.1
890.6
828.3
760.8
695.4
643.7
608.8
582.5
584.6
565.6
522.3
480.1
444.2
420.0
403.1
371.4
345.0
308.1
267.0
225.8
201.5
179.4
141.4
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