

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: P852538

Luminaire Tested: **GLAN-SB4C-827-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4C-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18119 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

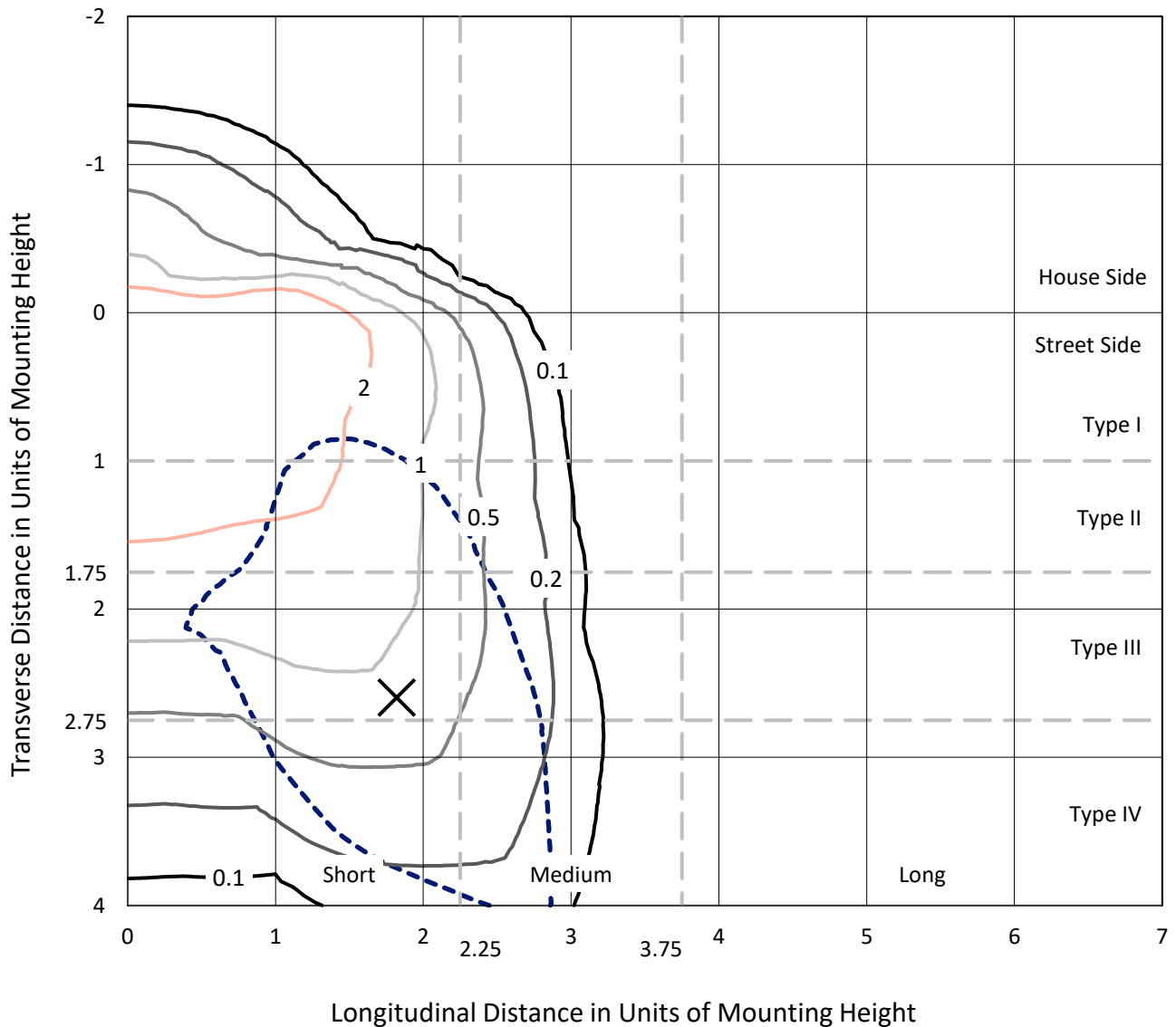
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

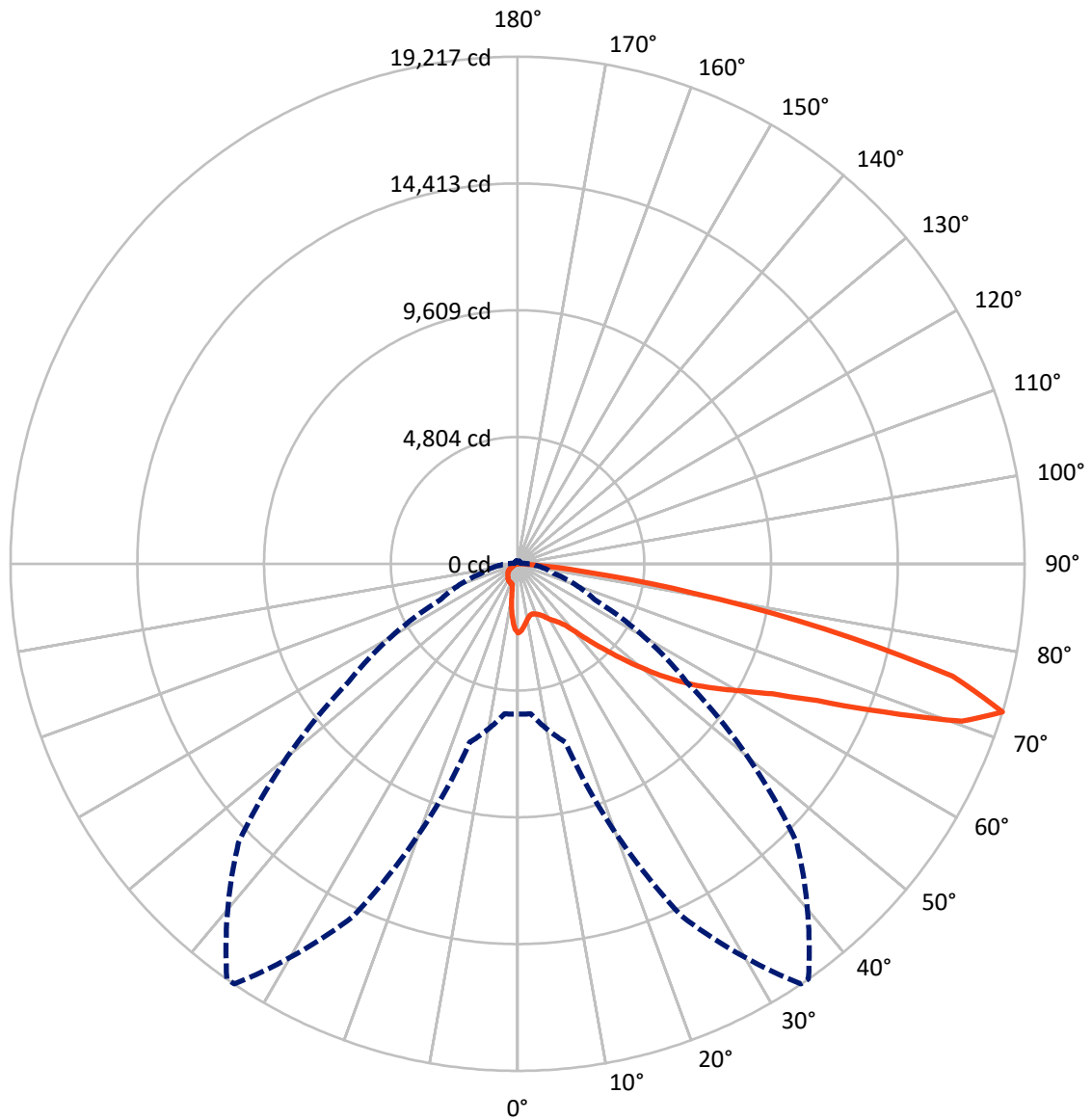
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2039.2	0.0	2039.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	16079.8	0.0	16079.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	18119.0	0.0	18119.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.8	1.2
10°-20°	504.8	2.8
20°-30°	820.1	4.5
30°-40°	1368.3	7.6
40°-50°	2588.8	14.3
50°-60°	4113.6	22.7
60°-70°	5088.8	28.1
70°-80°	3163.2	17.5
80°-90°	255.6	1.4
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°	18119.0	100.0
0°-180°	18119.0	100.0

**Coefficient of Utilization**



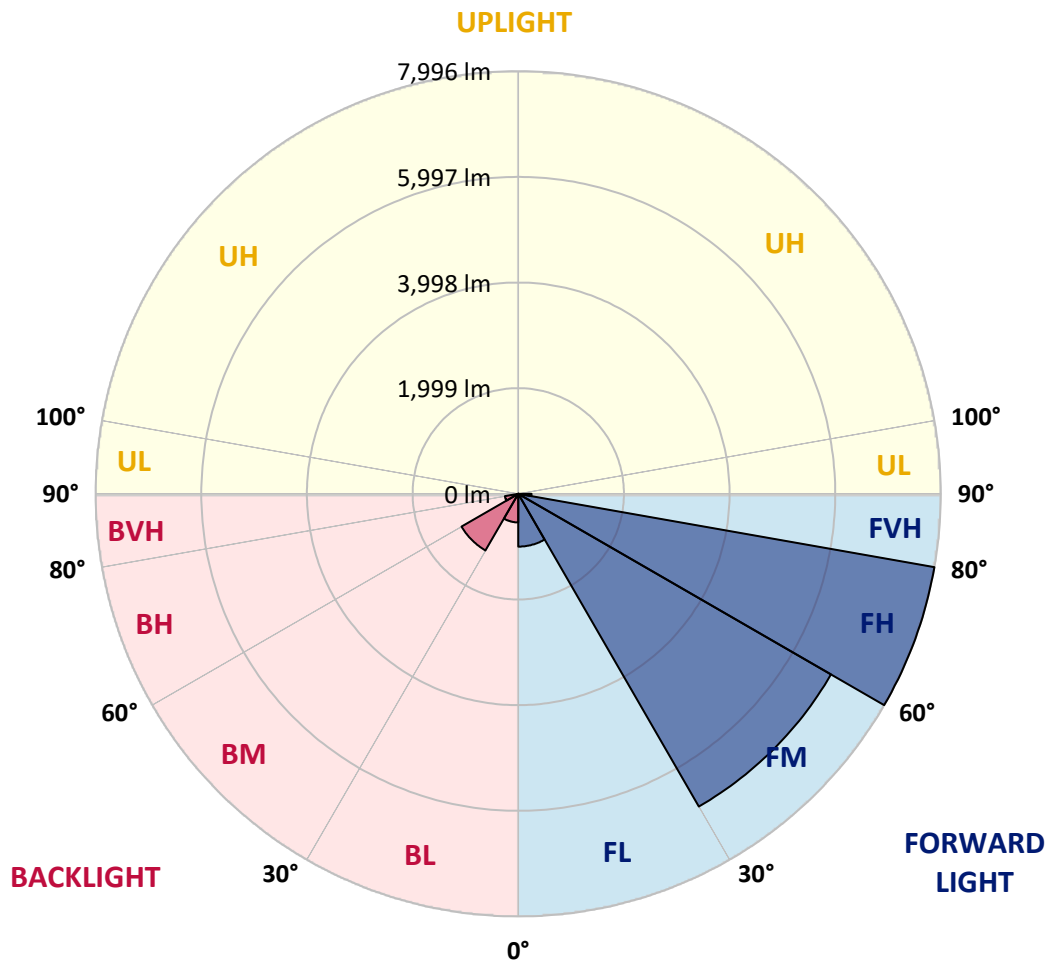
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 CATALOG NUMBER: GLAN-SB4C-827-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.8	5.5			
FM (30°-60°)	6832.7	37.7			
FH (60°-80°)	7996.1	44.1			G4/12000
FVH (80°-90°)	252.2	1.4			G3/500
BL (0°-30°)	541.9	3.0	B2/1000		
BM (30°-60°)	1238.0	6.8	B2/2500		
BH (60°-80°)	255.9	1.4	B1/500		G1/500
BVH (80°-90°)	3.5	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1
2.5°	2509.2	2530.5	2534.4	2541.1	2541.1	2549.0	2562.3	2580.9	2611.4	2627.4
5°	2312.7	2328.7	2348.6	2364.5	2395.0	2399.0	2450.8	2501.3	2571.6	2624.7
7.5°	2114.9	2133.5	2160.1	2198.6	2238.4	2250.3	2328.7	2413.6	2525.2	2624.7
10°	1975.5	1976.8	2000.7	2039.2	2103.0	2117.6	2213.2	2334.0	2473.4	2608.8
12.5°	1897.2	1906.5	1917.1	1946.3	2007.4	2016.7	2118.9	2261.0	2421.6	2599.5
15°	1897.2	1903.8	1910.5	1925.1	1974.2	1982.2	2072.4	2214.5	2395.0	2603.5
17.5°	1917.1	1927.7	1922.4	1939.7	1991.4	1996.8	2076.4	2201.2	2393.7	2628.7
20°	1964.9	1972.9	1962.2	1972.9	2024.6	2035.3	2117.6	2226.4	2416.3	2672.5
22.5°	2040.6	2044.5	2019.3	2027.3	2080.4	2093.7	2189.3	2298.1	2470.7	2742.9
25°	2136.2	2144.1	2105.6	2114.9	2165.4	2181.3	2291.5	2405.7	2557.0	2839.8
27.5°	2246.3	2250.3	2217.1	2215.8	2280.9	2303.4	2415.0	2538.4	2672.5	2961.9
30°	2372.5	2384.4	2352.6	2347.2	2429.6	2448.1	2558.3	2701.7	2842.5	3145.2
32.5°	2472.0	2481.3	2462.8	2476.0	2559.7	2574.3	2732.3	2932.7	3109.3	3405.4
35°	2615.4	2620.7	2578.3	2602.2	2697.7	2734.9	2969.9	3256.7	3445.2	3732.0
37.5°	3134.5	3134.5	2954.0	2835.8	2927.4	2960.6	3295.2	3664.3	3859.4	4170.1
40°	3852.8	3840.8	3576.6	3335.0	3323.1	3388.1	3758.5	4178.0	4394.5	4695.8
42.5°	4618.8	4600.2	4240.4	4001.5	3961.6	3984.2	4293.6	4811.3	5031.7	5337.1
45°	5298.6	5293.3	4964.0	4642.7	4571.0	4642.7	4961.4	5552.1	5710.1	6031.4
47.5°	5868.1	5868.1	5627.8	5418.1	5380.9	5423.4	5865.5	6373.9	6359.3	6770.9
50°	6524.0	6518.7	6290.3	6200.0	6238.5	6298.3	6906.3	7239.6	7031.1	7497.1
52.5°	6983.3	7015.2	6936.9	6922.3	7118.7	7222.3	7963.1	8086.6	7632.5	8186.2
55°	7347.1	7384.3	7474.6	7576.8	7955.2	8090.6	8986.7	8889.8	8135.7	8783.6
57.5°	7862.2	7809.1	7948.5	8150.3	8762.4	8925.7	9978.5	9647.9	8540.6	9268.2
60°	8487.5	8495.5	8519.4	8774.3	9568.2	9778.0	10955.6	10364.8	8800.9	9565.6
62.5°	9239.0	9250.9	9300.0	9691.7	10650.2	10848.1	11996.5	10951.6	8920.3	9481.9
65°	9187.2	9237.6	9786.0	11125.5	12295.2	12490.3	13211.2	11363.2	8739.8	8717.2
67.5°	8369.4	8451.7	9369.1	12838.2	14775.2	14992.9	14679.6	11444.2	7960.5	6778.9
70°	7296.7	7325.9	8429.1	14378.2	17646.8	17867.2	15993.9	10553.3	6040.7	3781.1
72.5°	5698.2	5704.8	6999.3	14735.4	19205.5	19217.4	14962.4	7834.3	3248.7	1452.4
75°	4070.5	4030.7	4687.9	11950.0	16896.7	17032.2	11217.1	3674.9	1241.3	686.4
77.5°	2182.6	2226.4	2652.6	7086.9	11672.5	11903.5	6120.4	1059.4	632.0	467.3
80°	674.4	711.6	1087.3	3244.7	6611.6	6751.0	2268.9	471.3	440.8	333.2
82.5°	212.4	220.4	507.2	1363.5	2744.2	2807.9	657.2	266.9	301.4	220.4
85°	61.1	62.4	225.7	508.5	678.4	691.7	184.5	103.6	172.6	136.7
87.5°	6.6	21.2	85.0	85.0	59.7	58.4	19.9	22.6	49.1	17.3
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°
2626.1	0°	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1	2626.1
2638.0	2.5°	2631.4	2632.7	2615.4	2586.2	2554.4	2527.8	2494.6	2468.1	2449.5	2444.2
2661.9	5°	2649.9	2640.7	2591.5	2502.6	2396.4	2304.8	2202.5	2121.6	2068.4	2045.9
2687.1	7.5°	2677.8	2651.3	2543.7	2368.5	2165.4	1984.8	1801.6	1659.5	1569.3	1524.1
2711.0	10°	2701.7	2648.6	2464.1	2174.7	1864.0	1590.5	1343.6	1172.3	1076.7	1031.6
2738.9	12.5°	2724.3	2647.3	2360.5	1945.0	1524.1	1189.6	959.9	874.9	848.4	839.1
2784.0	15°	2766.8	2651.3	2230.4	1682.1	1185.6	898.8	815.2	813.8	819.1	816.5
2853.1	17.5°	2825.2	2655.3	2083.1	1403.3	914.7	792.6	788.6	800.6	808.5	804.5
2939.4	20°	2900.9	2671.2	1926.4	1127.2	786.0	766.0	775.3	786.0	792.6	786.0
3054.9	22.5°	3007.1	2699.1	1755.1	905.4	744.8	750.1	758.1	770.0	776.7	767.4
3202.2	25°	3137.2	2742.9	1586.5	787.3	724.9	731.5	743.5	756.7	764.7	755.4
3388.1	27.5°	3305.8	2813.2	1431.2	760.7	705.0	709.0	726.2	746.1	756.7	744.8
3652.3	30°	3550.1	2928.8	1297.1	772.7	693.0	683.7	707.6	735.5	747.5	736.8
4012.1	32.5°	3874.0	3092.0	1214.8	791.3	687.7	654.5	677.1	712.9	732.9	726.2
4482.1	35°	4298.9	3340.3	1182.9	812.5	683.7	624.0	639.9	678.4	712.9	719.6
5074.2	37.5°	4814.0	3685.5	1192.2	821.8	671.8	598.8	606.7	639.9	685.1	706.3
5740.7	40°	5399.5	4087.8	1245.3	812.5	658.5	577.5	578.8	604.1	643.9	675.8
6457.6	42.5°	6003.5	4557.8	1343.6	778.0	646.6	558.9	554.9	572.2	598.8	621.3
7173.2	45°	6578.4	5041.0	1440.5	730.2	632.0	540.3	531.1	537.7	543.0	552.3
7870.2	47.5°	7080.2	5380.9	1412.6	686.4	612.0	519.1	503.2	500.5	484.6	483.3
8492.8	50°	7426.8	5455.2	1254.6	642.6	582.8	495.2	470.0	454.0	426.2	412.9
8958.8	52.5°	7537.0	5161.8	1024.9	598.8	535.0	463.3	427.5	402.3	367.8	355.8
9227.0	55°	7390.9	4587.0	819.1	545.7	468.7	420.9	381.0	347.8	320.0	305.4
9256.2	57.5°	7033.8	3855.4	647.9	483.3	398.3	373.1	333.2	300.0	276.1	261.5
8932.3	60°	6441.7	3061.5	512.5	408.9	339.9	321.3	280.1	258.9	237.6	220.4
8095.9	62.5°	5542.9	2185.3	402.3	323.9	284.1	262.9	239.0	223.0	197.8	173.9
6591.7	65°	4325.4	1336.9	310.7	237.6	228.4	217.7	203.1	188.5	158.0	134.1
4300.2	67.5°	2728.3	633.3	221.7	179.2	180.6	175.2	168.6	156.7	134.1	112.8
1926.4	70°	1201.5	306.7	146.0	136.7	134.1	134.1	139.4	135.4	114.2	94.3
669.1	72.5°	408.9	164.6	108.9	103.6	96.9	95.6	116.8	112.8	91.6	73.0
333.2	75°	213.7	110.2	79.7	74.3	58.4	70.4	92.9	87.6	65.1	47.8
220.4	77.5°	139.4	78.3	54.4	47.8	33.2	46.5	69.0	61.1	38.5	23.9
144.7	80°	87.6	51.8	31.9	22.6	15.9	25.2	37.2	26.6	14.6	5.3
85.0	82.5°	46.5	26.6	11.9	8.0	6.6	8.0	9.3	6.6	2.7	0.0
43.8	85°	18.6	9.3	4.0	2.7	1.3	0.0	2.7	1.3	0.0	0.0
8.0	87.5°	6.6	1.3	0.0	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°
2626.1
2453.5
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815.2
803.2
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754.1
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726.2
719.6
711.6
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