

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: P852572

Luminaire Tested: **GLAN-SB4D-827-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852572  
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-SB4D-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA 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: 24620 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

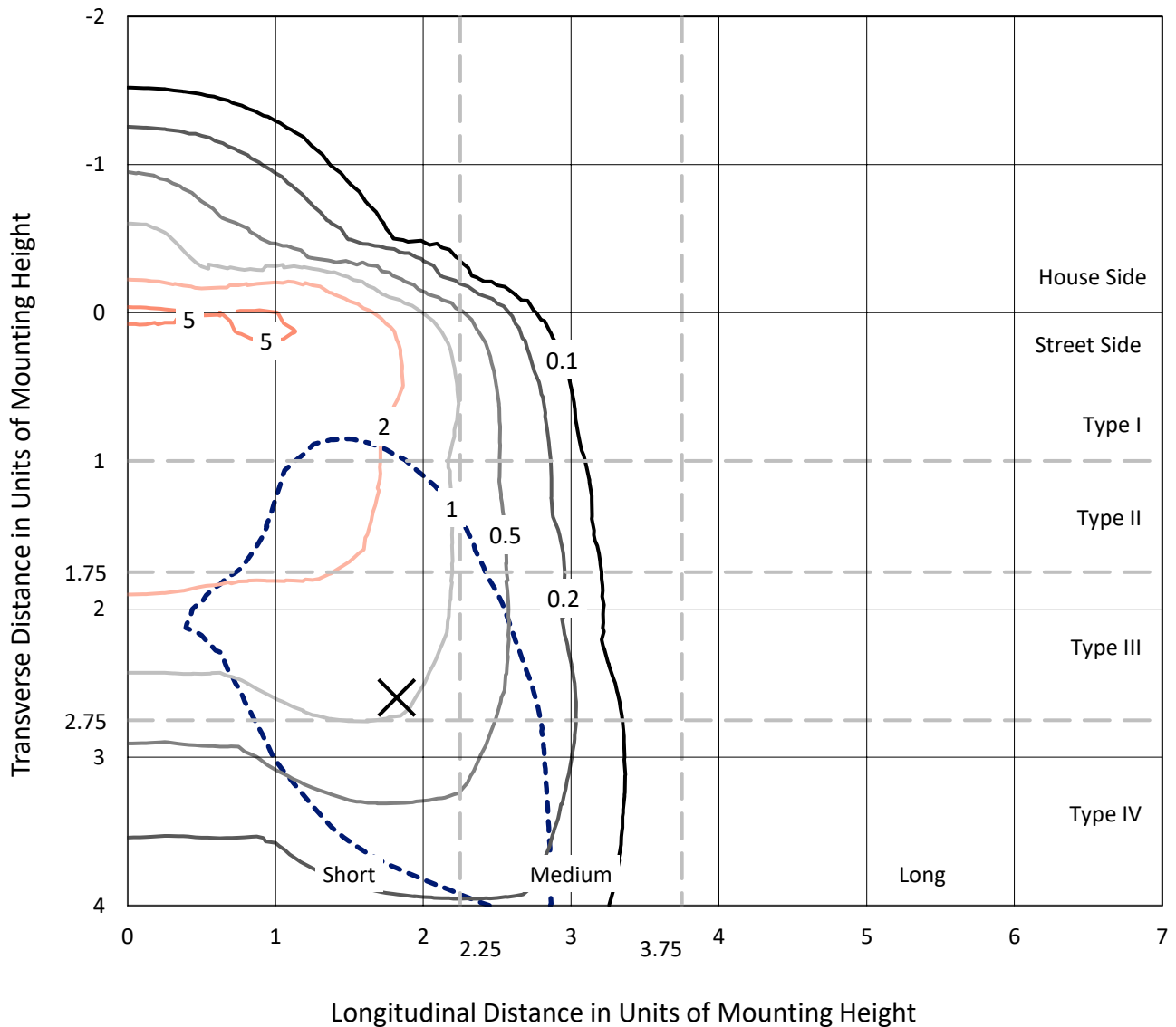
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

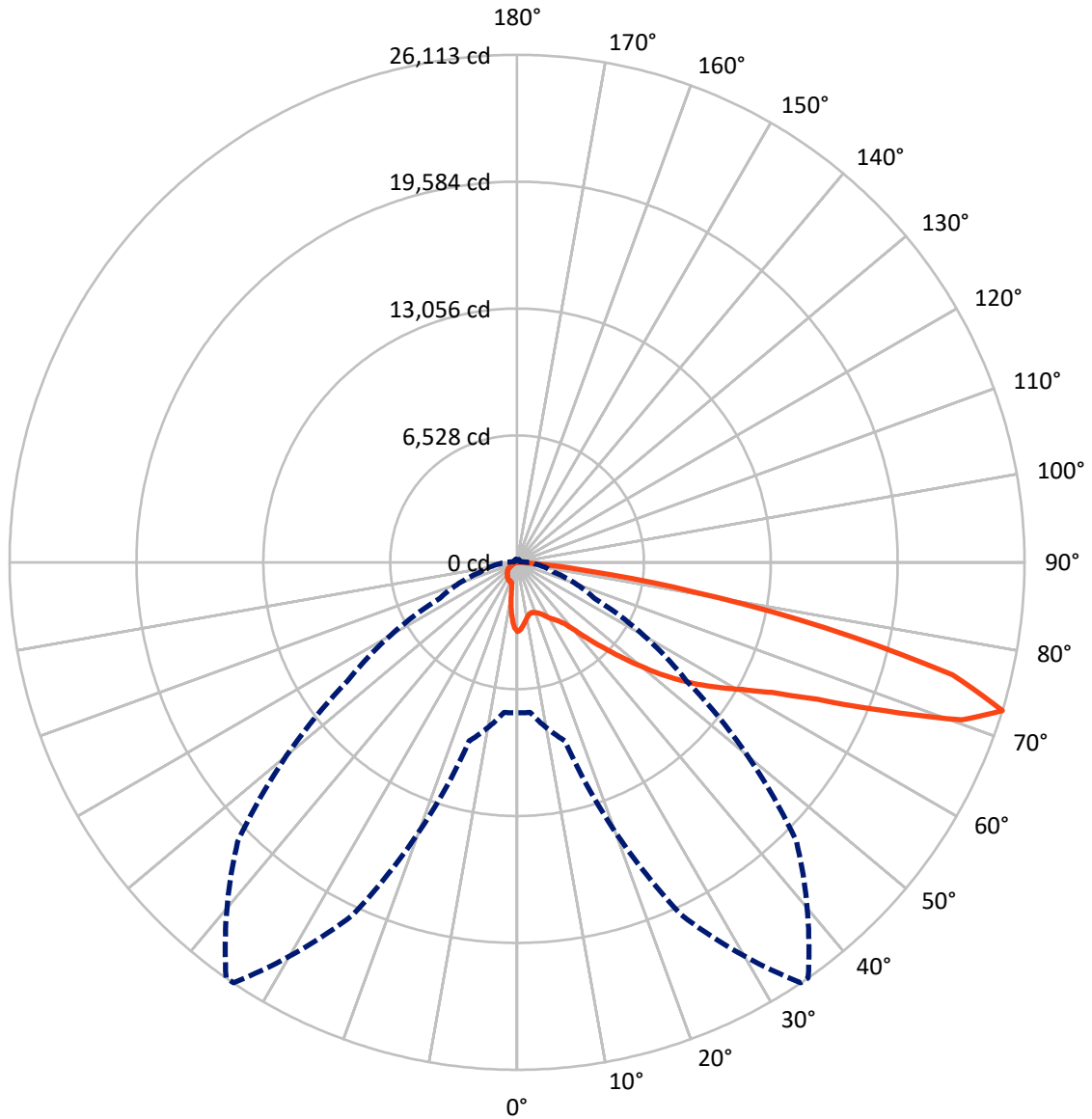
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2770.9	0.0	2770.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	21849.1	0.0	21849.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	24620.0	0.0	24620.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.2	1.2
10°-20°	685.9	2.8
20°-30°	1114.3	4.5
30°-40°	1859.2	7.6
40°-50°	3517.7	14.3
50°-60°	5589.5	22.7
60°-70°	6914.6	28.1
70°-80°	4298.2	17.5
80°-90°	347.4	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°	24620.0	100.0
0°-180°	24620.0	100.0

**Coefficient of Utilization**



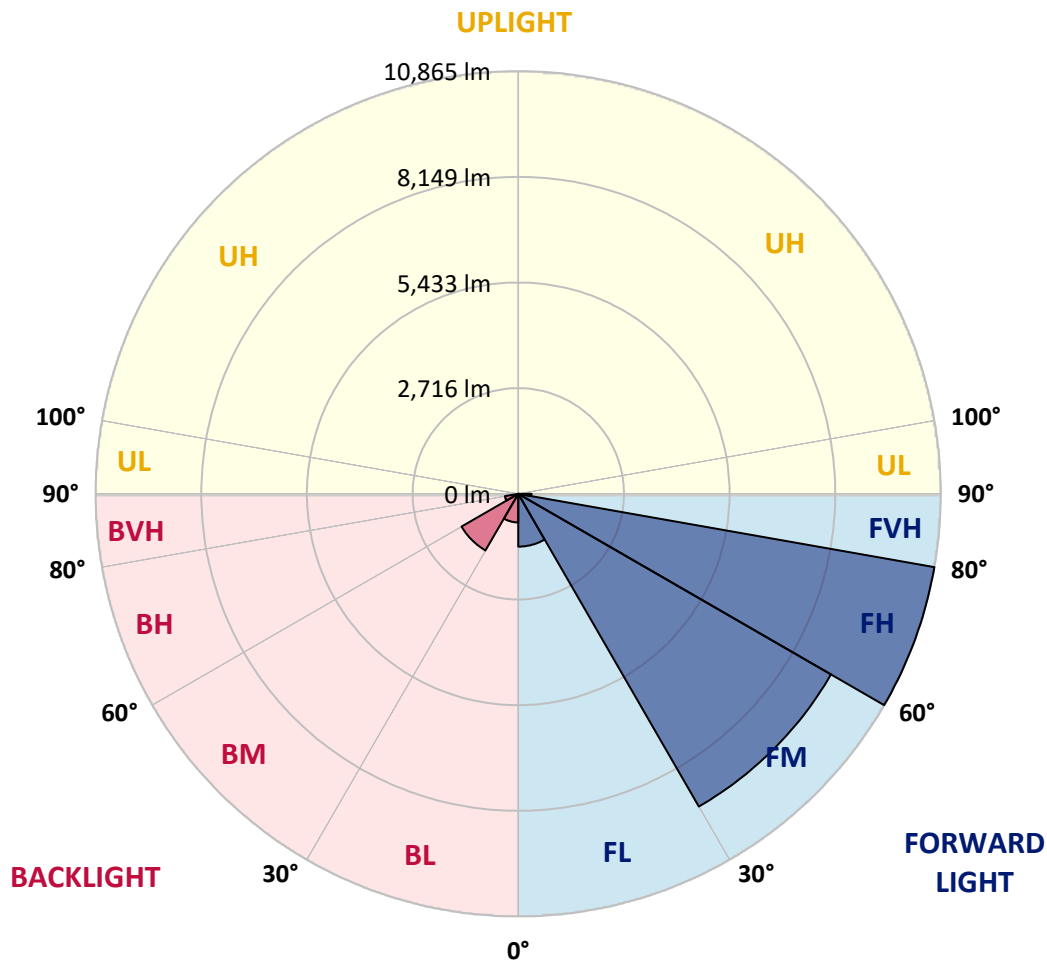
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.2	5.5			
FM (30°-60°)	9284.2	37.7			
FH (60°-80°)	10865.1	44.1			G4/12000
FVH (80°-90°)	342.6	1.4			G3/500
BL (0°-30°)	736.3	3.0	B2/1000		
BM (30°-60°)	1682.2	6.8	B2/2500		
BH (60°-80°)	347.7	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	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°	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3
2.5°	3409.5	3438.4	3443.8	3452.8	3452.8	3463.6	3481.7	3506.9	3548.4	3570.1
5°	3142.5	3164.2	3191.2	3212.9	3254.4	3259.8	3330.1	3398.7	3494.3	3566.5
7.5°	2873.7	2899.0	2935.1	2987.4	3041.5	3057.7	3164.2	3279.6	3431.2	3566.5
10°	2684.3	2686.1	2718.6	2770.9	2857.5	2877.3	3007.2	3171.4	3360.8	3544.8
12.5°	2577.9	2590.5	2604.9	2644.6	2727.6	2740.2	2879.1	3072.2	3290.5	3532.2
15°	2577.9	2586.9	2595.9	2615.8	2682.5	2693.3	2816.0	3009.0	3254.4	3537.6
17.5°	2604.9	2619.4	2612.2	2635.6	2706.0	2713.2	2821.4	2991.0	3252.6	3571.9
20°	2669.9	2680.7	2666.3	2680.7	2751.1	2765.5	2877.3	3025.3	3283.2	3631.4
22.5°	2772.7	2778.1	2743.8	2754.7	2826.8	2844.9	2974.8	3122.7	3357.2	3727.0
25°	2902.6	2913.4	2861.1	2873.7	2942.3	2963.9	3113.7	3268.8	3474.5	3858.7
27.5°	3052.3	3057.7	3012.6	3010.8	3099.2	3129.9	3281.4	3449.2	3631.4	4024.7
30°	3223.7	3239.9	3196.6	3189.4	3301.3	3326.5	3476.3	3671.1	3862.3	4273.6
32.5°	3359.0	3371.6	3346.4	3364.4	3478.1	3497.9	3712.6	3985.0	4224.9	4627.2
35°	3553.8	3561.0	3503.3	3535.8	3665.7	3716.2	4035.5	4425.2	4681.3	5071.0
37.5°	4259.2	4259.2	4013.8	3853.3	3977.8	4022.9	4477.5	4979.0	5244.2	5666.3
40°	5235.1	5218.9	4859.9	4531.6	4515.4	4603.7	5107.1	5677.1	5971.2	6380.7
42.5°	6276.0	6250.8	5761.9	5437.2	5383.1	5413.7	5834.1	6537.6	6837.1	7252.0
45°	7199.7	7192.5	6745.1	6308.5	6211.1	6308.5	6741.5	7544.2	7758.9	8195.5
47.5°	7973.6	7973.6	7647.1	7362.0	7311.5	7369.2	7970.0	8660.9	8641.0	9200.3
50°	8864.7	8857.5	8547.2	8424.6	8476.9	8558.1	9384.3	9837.1	9553.9	10187.0
52.5°	9488.9	9532.2	9425.8	9405.9	9672.9	9813.6	10820.2	10988.0	10371.1	11123.3
55°	9983.2	10033.7	10156.4	10295.3	10809.4	10993.4	12211.1	12079.4	11054.8	11935.1
57.5°	10683.1	10611.0	10800.4	11074.6	11906.2	12128.1	13558.7	13109.5	11605.0	12593.6
60°	11532.8	11543.6	11576.1	11922.5	13001.3	13286.3	14886.4	14083.6	11958.6	12997.6
62.5°	12553.9	12570.1	12636.8	13169.0	14471.5	14740.3	16300.7	14881.0	12120.9	12884.0
65°	12483.5	12552.1	13297.1	15117.3	16706.6	16971.8	17951.4	15440.2	11875.6	11844.9
67.5°	11372.3	11484.1	12730.7	17444.4	20076.4	20372.3	19946.6	15550.3	10816.6	9211.1
70°	9914.6	9954.3	11453.4	19537.1	23978.4	24277.9	21732.5	14339.8	8208.1	5137.7
72.5°	7742.7	7751.7	9510.6	20022.3	26096.3	26112.5	20330.8	10645.3	4414.3	1973.5
75°	5531.0	5476.9	6369.8	16237.6	22959.2	23143.2	15241.8	4993.4	1686.7	932.7
77.5°	2965.7	3025.3	3604.3	9629.6	15860.6	16174.4	8316.3	1439.6	858.7	635.0
80°	916.4	966.9	1477.5	4408.9	8983.8	9173.2	3083.0	640.4	598.9	452.8
82.5°	288.6	299.5	689.1	1852.7	3728.8	3815.4	893.0	362.6	409.5	299.5
85°	83.0	84.8	306.7	690.9	921.8	939.9	250.8	140.7	234.5	185.8
87.5°	9.0	28.9	115.5	115.5	81.2	79.4	27.1	30.7	66.7	23.5
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°
3568.3	0°	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3
3584.5	2.5°	3575.5	3577.3	3553.8	3514.1	3470.8	3434.8	3389.7	3353.6	3328.3	3321.1
3617.0	5°	3600.7	3588.1	3521.4	3400.5	3256.2	3131.7	2992.8	2882.8	2810.6	2779.9
3651.2	7.5°	3638.6	3602.5	3456.4	3218.3	2942.3	2696.9	2448.0	2255.0	2132.3	2071.0
3683.7	10°	3671.1	3598.9	3348.2	2954.9	2532.8	2161.2	1825.6	1592.9	1463.0	1401.7
3721.6	12.5°	3701.8	3597.1	3207.5	2642.8	2071.0	1616.4	1304.3	1188.8	1152.7	1140.1
3782.9	15°	3759.5	3602.5	3030.7	2285.6	1611.0	1221.3	1107.6	1105.8	1113.1	1109.4
3876.7	17.5°	3838.9	3608.0	2830.4	1906.8	1242.9	1077.0	1071.6	1087.8	1098.6	1093.2
3994.0	20°	3941.7	3629.6	2617.6	1531.6	1068.0	1040.9	1053.5	1068.0	1077.0	1068.0
4150.9	22.5°	4086.0	3667.5	2384.9	1230.3	1012.0	1019.2	1030.1	1046.3	1055.3	1042.7
4351.2	25°	4262.8	3727.0	2155.8	1069.8	985.0	994.0	1010.2	1028.3	1039.1	1026.5
4603.7	27.5°	4491.9	3822.6	1944.7	1033.7	957.9	963.3	986.8	1013.8	1028.3	1012.0
4962.7	30°	4823.8	3979.6	1762.5	1049.9	941.7	929.0	961.5	999.4	1015.6	1001.2
5451.6	32.5°	5264.0	4201.5	1650.6	1075.2	934.5	889.4	920.0	968.7	995.8	986.8
6090.2	35°	5841.3	4538.8	1607.3	1104.0	929.0	847.9	869.5	921.8	968.7	977.8
6894.8	37.5°	6541.2	5007.8	1620.0	1116.7	912.8	813.6	824.4	869.5	930.9	959.7
7800.4	40°	7336.8	5554.4	1692.1	1104.0	894.8	784.7	786.5	820.8	874.9	918.2
8774.5	42.5°	8157.6	6193.0	1825.6	1057.1	878.5	759.5	754.1	777.5	813.6	844.3
9746.9	45°	8938.7	6849.7	1957.3	992.2	858.7	734.2	721.6	730.6	737.8	750.5
10694.0	47.5°	9620.6	7311.5	1919.4	932.7	831.6	705.4	683.7	680.1	658.5	656.6
11540.0	50°	10091.4	7412.5	1704.8	873.1	791.9	672.9	638.6	617.0	579.1	561.0
12173.2	52.5°	10241.2	7013.9	1392.7	813.6	727.0	629.6	580.9	546.6	499.7	483.5
12537.6	55°	10042.7	6232.7	1113.1	741.4	636.8	571.9	517.7	472.6	434.8	414.9
12577.3	57.5°	9557.5	5238.7	880.3	656.6	541.2	506.9	452.8	407.7	375.2	355.4
12137.1	60°	8752.9	4160.0	696.3	555.6	461.8	436.6	380.6	351.8	322.9	299.5
11000.6	62.5°	7531.6	2969.3	546.6	440.2	386.1	357.2	324.7	303.1	268.8	236.3
8956.7	65°	5877.4	1816.6	422.1	322.9	310.3	295.9	276.0	256.2	214.7	182.2
5843.1	67.5°	3707.2	860.5	301.3	243.5	245.3	238.1	229.1	212.9	182.2	153.3
2617.6	70°	1632.6	416.7	198.4	185.8	182.2	182.2	189.4	184.0	155.1	128.1
909.2	72.5°	555.6	223.7	147.9	140.7	131.7	129.9	158.7	153.3	124.5	99.2
452.8	75°	290.4	149.7	108.2	101.0	79.4	95.6	126.3	119.1	88.4	64.9
299.5	77.5°	189.4	106.4	74.0	64.9	45.1	63.1	93.8	83.0	52.3	32.5
196.6	80°	119.1	70.4	43.3	30.7	21.6	34.3	50.5	36.1	19.8	7.2
115.5	82.5°	63.1	36.1	16.2	10.8	9.0	10.8	12.6	9.0	3.6	0.0
59.5	85°	25.3	12.6	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0
10.8	87.5°	9.0	1.8	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°
3568.3
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757.7
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