

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: P638538

Luminaire Tested: **IFLD-S-SA2D-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638538  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9159.3 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

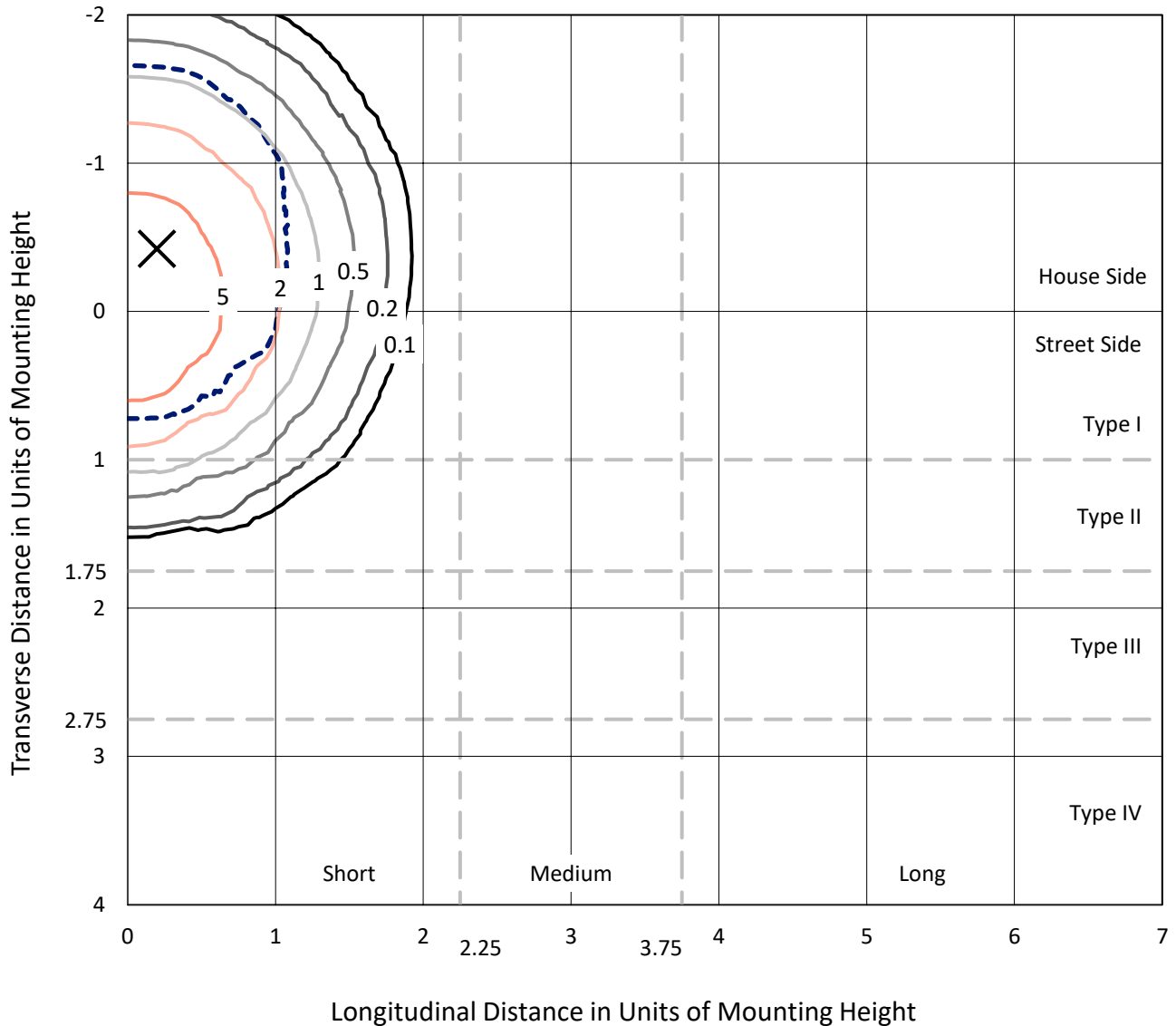
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

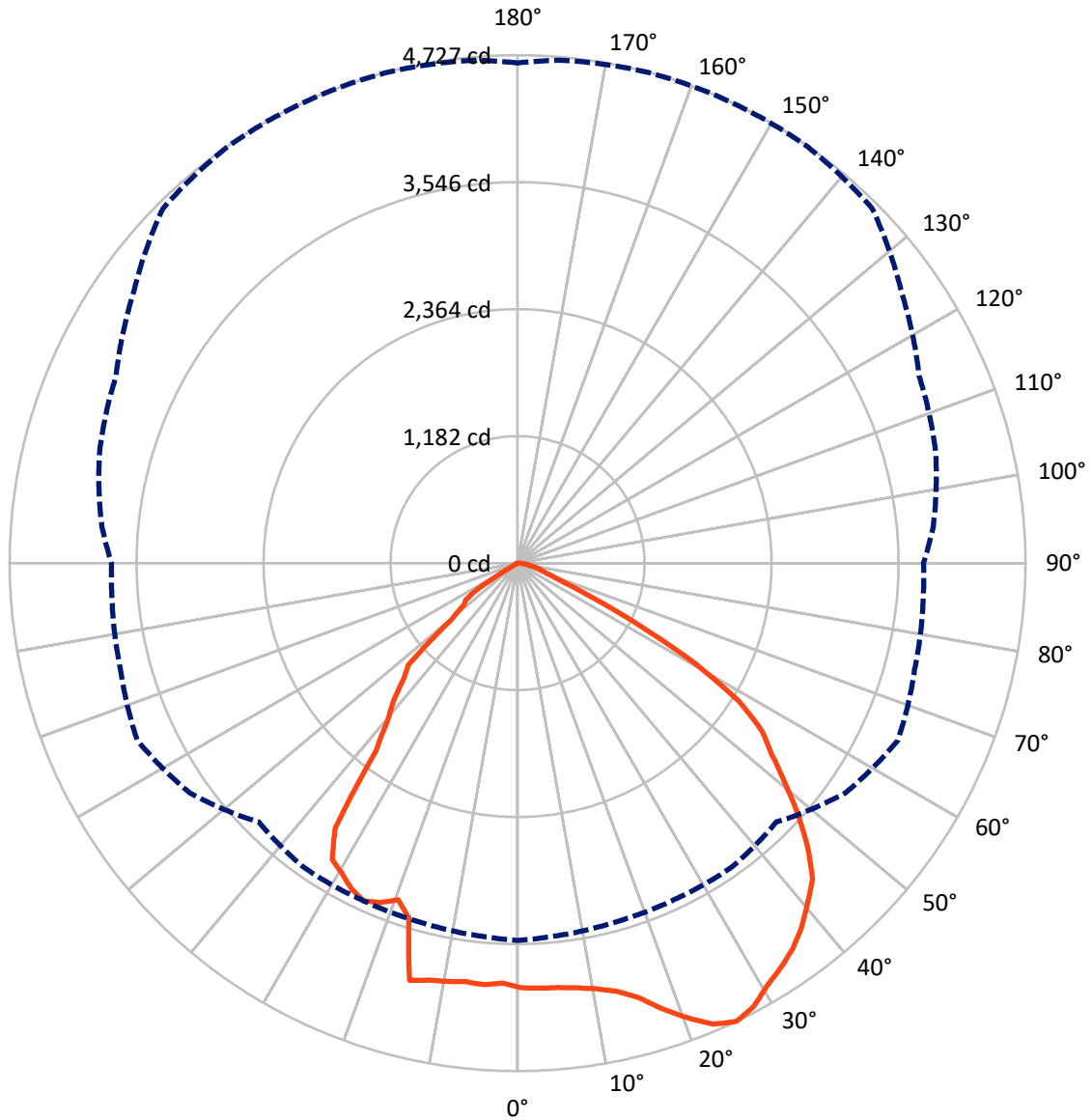
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5670.5	0.0	5670.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3488.7	0.0	3488.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	9159.3	0.0	9159.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.1	4.1
10°-20°	1157.7	12.6
20°-30°	1830.3	20.0
30°-40°	2067.5	22.6
40°-50°	1936.2	21.1
50°-60°	1334.9	14.6
60°-70°	358.6	3.9
70°-80°	74.7	0.8
80°-90°	20.2	0.2
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°	9159.3	100.0
0°-180°	9159.3	100.0



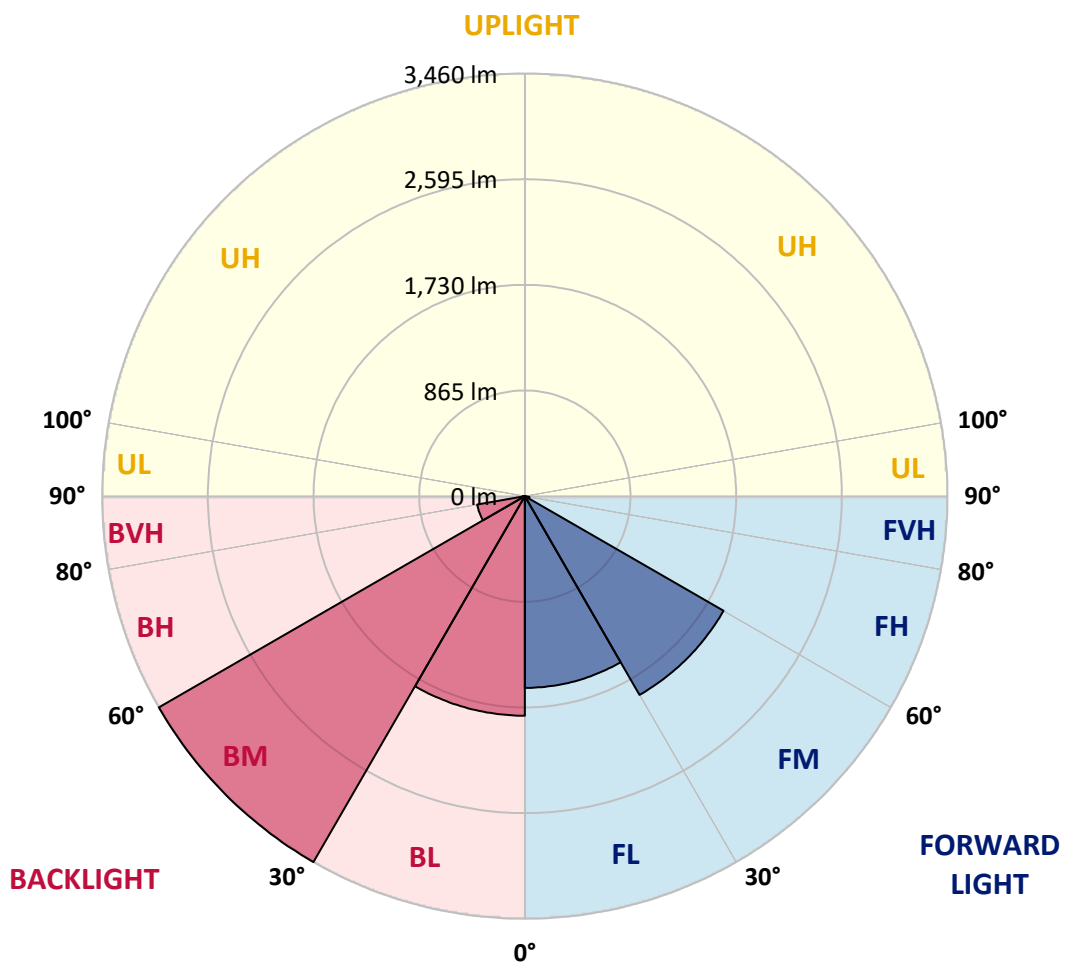
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.6	17.1			
FM (30°-60°)	1878.8	20.5			
FH (60°-80°)	37.6	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1797.5	19.6	B3/2500		
BM (30°-60°)	3459.8	37.8	B3/5000		
BH (60°-80°)	395.7	4.3	B1/500		G1/500
BVH (80°-90°)	17.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1
2.5°	3969.6	3944.0	3919.8	3911.7	3945.3	3981.7	3958.8	3960.1	3952.1	3966.9
5°	3999.2	3964.2	3948.0	3935.9	3941.3	3979.0	3946.7	3958.8	3945.3	3962.8
7.5°	3988.4	3964.2	3948.0	3925.1	3942.6	3987.1	3956.1	3957.4	3950.7	3966.9
10°	3981.7	3964.2	3944.0	3946.7	3966.9	4004.6	3980.3	3993.8	3984.4	3993.8
12.5°	3997.8	3979.0	3968.2	3968.2	3985.7	4028.8	4016.7	4028.8	4024.8	4032.8
15°	3845.7	3863.2	3965.5	4011.3	4046.3	4089.4	4084.0	4096.1	4098.8	4110.9
17.5°	3244.0	3226.5	3218.5	3454.0	4079.9	4213.2	4209.2	4207.8	4194.4	4184.9
20°	3323.4	3316.7	3307.3	3324.8	3394.8	4277.8	4304.7	4139.2	4090.7	4086.7
22.5°	3450.0	3439.2	3404.2	3405.6	3427.1	3719.2	4171.5	4020.7	4004.6	3995.1
25°	3511.9	3490.4	3462.1	3454.0	3460.7	3406.9	3725.9	3905.0	3825.5	3789.2
27.5°	3402.9	3404.2	3381.3	3402.9	3377.3	3135.0	2999.0	3678.8	3676.1	3660.0
30°	3320.8	3316.7	3289.8	3316.7	3140.4	2869.8	2811.9	3431.1	3402.9	3381.3
32.5°	3069.0	3071.7	3149.8	3254.8	2965.4	2751.4	2576.4	3065.0	3332.9	3320.8
35°	2195.4	2200.8	2478.1	2996.4	2700.2	2515.8	2502.3	2649.1	3222.5	3227.9
37.5°	2113.3	2113.3	2106.6	2191.4	2491.6	2420.2	2447.2	2432.4	2951.9	2965.4
40°	2054.1	2042.0	2032.6	1899.3	1732.4	2352.9	2371.8	2304.5	2790.4	2793.1
42.5°	1982.8	1969.3	1972.0	1725.7	1550.7	2186.0	2133.5	2043.3	2521.2	2523.9
45°	1852.2	1875.1	1891.2	1510.3	1496.8	1561.4	1968.0	1911.4	2339.5	2389.3
47.5°	942.2	962.4	1476.6	1389.1	1420.1	1387.8	1662.4	1663.7	1946.4	2112.0
50°	854.8	849.4	850.7	810.3	1311.1	1122.6	1202.0	1525.1	1558.8	1795.7
52.5°	796.9	795.5	713.4	634.0	823.8	988.0	872.3	1103.8	1159.0	1521.1
55°	589.6	632.7	562.7	596.3	515.5	791.5	787.5	996.1	1014.9	1219.5
57.5°	5.4	6.7	16.2	453.6	356.7	395.7	543.8	679.8	713.4	950.3
60°	1.3	2.7	6.7	13.5	231.5	243.6	363.4	393.1	442.9	566.7
62.5°	0.0	0.0	2.7	6.7	12.1	99.6	115.8	126.5	195.2	289.4
65°	0.0	0.0	1.3	4.0	6.7	16.2	28.3	59.2	84.8	105.0
67.5°	0.0	0.0	1.3	2.7	5.4	8.1	16.2	22.9	36.3	61.9
70°	0.0	0.0	1.3	2.7	4.0	6.7	10.8	16.2	21.5	31.0
72.5°	0.0	0.0	1.3	2.7	2.7	8.1	8.1	12.1	16.2	20.2
75°	0.0	0.0	1.3	1.3	2.7	5.4	8.1	9.4	10.8	16.2
77.5°	0.0	0.0	1.3	2.7	4.0	5.4	6.7	10.8	9.4	9.4
80°	0.0	0.0	1.3	4.0	4.0	6.7	8.1	10.8	6.7	6.7
82.5°	0.0	0.0	1.3	5.4	4.0	13.5	13.5	14.8	5.4	5.4
85°	0.0	0.0	4.0	2.7	8.1	13.5	12.1	8.1	6.7	4.0
87.5°	0.0	0.0	1.3	1.3	2.7	4.0	9.4	8.1	2.7	2.7
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
3952.1	0°	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1
3927.8	2.5°	3981.7	3964.2	4000.5	3996.5	3979.0	3970.9	3961.5	3953.4	3894.2
3930.5	5°	3983.0	3956.1	4000.5	3992.4	3989.8	3976.3	3968.2	3980.3	3926.5
3941.3	7.5°	3983.0	3956.1	4004.6	4007.3	4003.2	3992.4	3991.1	3999.2	3954.8
3960.1	10°	4009.9	3999.2	4039.6	4043.6	4038.2	4035.5	4028.8	4023.4	3976.3
4024.8	12.5°	4066.5	4044.9	4090.7	4102.8	4098.8	4105.5	4089.4	4097.4	4049.0
4090.7	15°	4135.1	4136.5	4171.5	4198.4	4195.7	4217.2	4193.0	4214.5	4179.6
4166.1	17.5°	4240.1	4254.9	4304.7	4345.1	4359.9	4376.1	4359.9	4366.7	4316.8
4082.6	20°	4129.7	4184.9	4424.5	4498.6	4529.5	4544.3	4517.4	4525.5	4475.7
3980.3	22.5°	4030.1	4101.5	4314.2	4545.7	4641.3	4670.9	4661.4	4660.1	4641.3
3778.4	25°	3883.4	4027.4	4123.0	4368.0	4668.2	4722.0	4727.4	4726.1	4697.8
3654.6	27.5°	3703.0	3735.3	3983.0	4132.4	4479.7	4684.3	4676.3	4637.2	4599.5
3397.5	30°	3472.9	3619.6	3731.3	3969.6	4236.1	4568.6	4568.6	4539.0	4499.9
3306.0	32.5°	3355.8	3545.6	3649.2	3735.3	3962.8	4439.3	4493.2	4462.2	4431.3
3234.6	35°	3293.8	3322.1	3564.4	3642.5	3835.0	4190.3	4408.4	4377.4	4354.5
3044.8	37.5°	3157.9	3223.8	3336.9	3545.6	3604.8	3987.1	4295.3	4279.2	4252.2
2798.5	40°	2855.0	3031.4	3205.0	3402.9	3464.8	3725.9	4158.0	4164.7	4128.4
2536.0	42.5°	2676.0	2795.8	3067.7	3201.0	3367.9	3557.7	4024.8	4035.5	4009.9
2402.7	45°	2466.0	2599.3	2790.4	3032.7	3260.2	3326.1	3789.2	3902.3	3880.7
2137.6	47.5°	2273.5	2381.2	2615.4	2860.4	3112.1	3102.7	3518.6	3731.3	3701.7
1934.3	50°	2000.3	2188.7	2299.1	2523.9	2899.4	2925.0	3230.6	3530.7	3506.5
1643.6	52.5°	1686.6	1923.5	2134.9	2340.8	2684.1	2744.6	2962.7	3326.1	3310.0
1255.9	55°	1473.9	1646.2	1884.5	2050.1	2422.9	2584.5	2762.1	3131.0	3122.9
1032.4	57.5°	1048.6	1381.1	1577.6	1809.1	2005.6	2297.7	2429.7	2733.9	2658.5
572.1	60°	710.7	866.9	1106.5	1355.5	1487.4	1779.5	1902.0	2145.6	2125.4
341.9	62.5°	375.6	519.6	690.5	815.7	911.3	1195.3	1246.5	1508.9	1502.2
137.3	65°	165.6	219.4	374.2	438.8	537.1	669.0	713.4	807.6	784.8
67.3	67.5°	86.1	130.6	211.3	259.8	327.1	376.9	413.2	442.9	461.7
44.4	70°	52.5	95.6	130.6	180.4	224.8	265.2	293.4	333.8	358.1
22.9	72.5°	39.0	60.6	90.2	138.6	162.9	210.0	238.3	267.9	289.4
18.8	75°	21.5	40.4	72.7	109.0	130.6	171.0	196.5	216.7	223.4
10.8	77.5°	13.5	31.0	60.6	84.8	102.3	138.6	131.9	150.8	166.9
8.1	80°	9.4	22.9	47.1	70.0	71.3	88.8	105.0	121.1	131.9
5.4	82.5°	6.7	18.8	35.0	53.8	47.1	68.6	82.1	94.2	68.6
4.0	85°	5.4	13.5	17.5	32.3	26.9	48.5	41.7	40.4	26.9
2.7	87.5°	4.0	6.7	12.1	14.8	10.8	10.8	13.5	16.2	13.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
3952.1  
3853.8  
3880.7  
3903.6  
3937.3  
4005.9  
4121.7  
4273.8  
4440.7  
4580.7  
4654.7  
4569.9  
4485.1  
4405.7  
4322.2  
4225.3  
4120.3  
4007.3  
3883.4  
3723.2  
3510.6  
3320.8  
3132.3  
2650.4  
2126.8  
1503.6  
775.3  
461.7  
359.4  
293.4  
219.4  
169.6  
133.3  
49.8  
26.9  
13.5  
0.0

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