

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: P636915

Luminaire Tested: **IFLD-S-SA2E-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636915
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8857.7 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

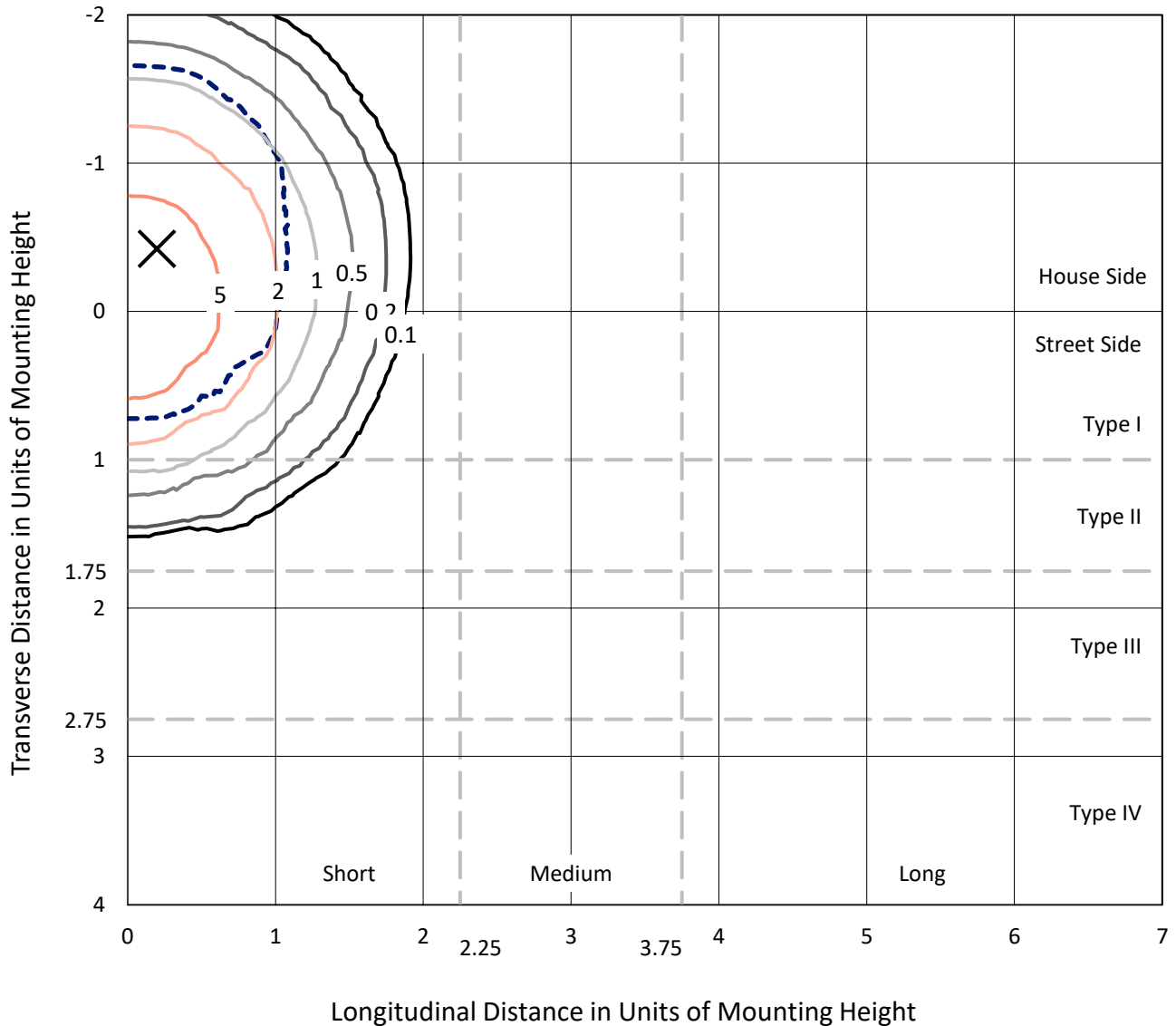
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

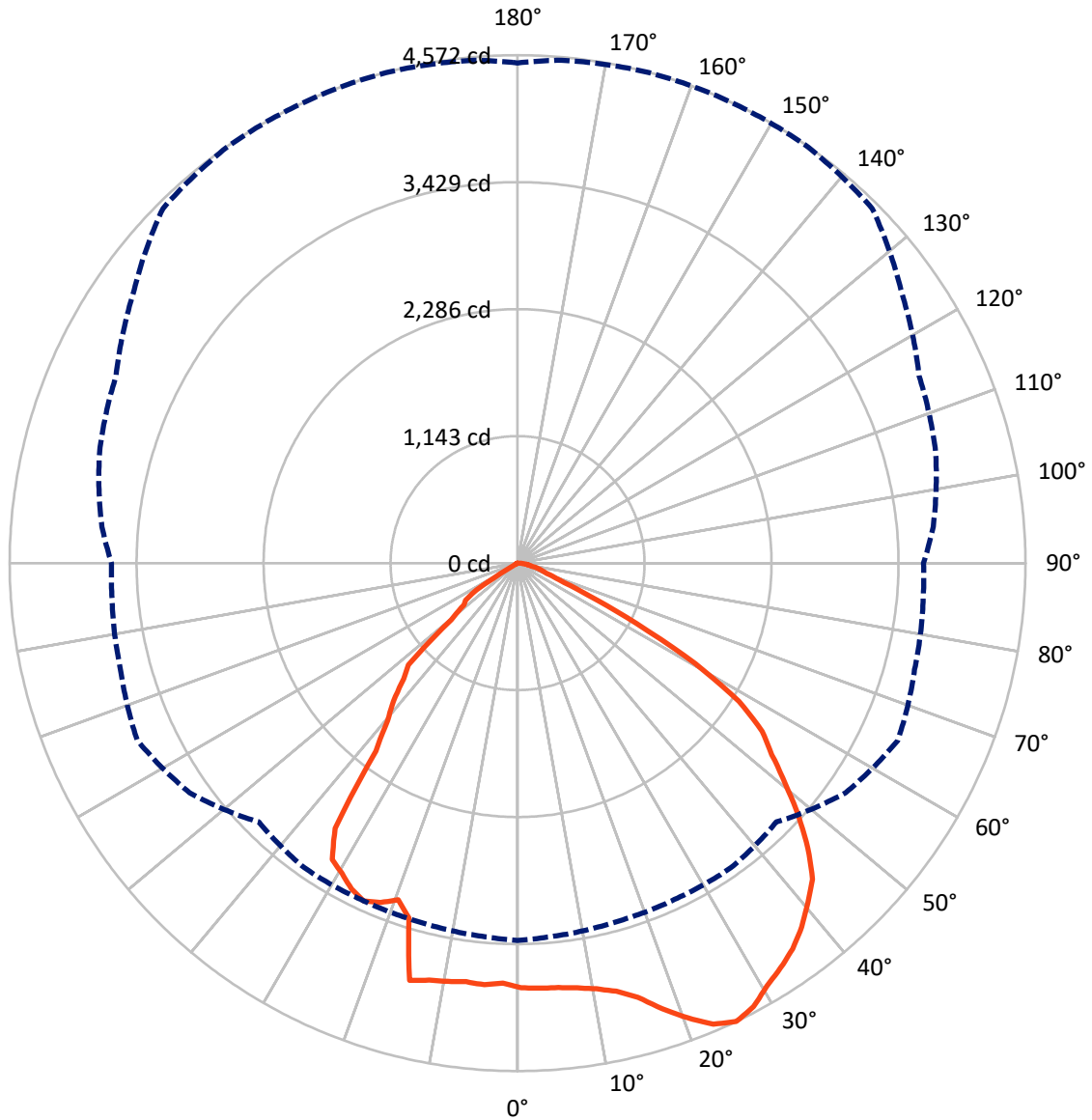
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	5483.8	0.0	5483.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3373.9	0.0	3373.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	8857.7	0.0	8857.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.7	4.1
10°-20°	1119.6	12.6
20°-30°	1770.0	20.0
30°-40°	1999.4	22.6
40°-50°	1872.5	21.1
50°-60°	1290.9	14.6
60°-70°	346.8	3.9
70°-80°	72.3	0.8
80°-90°	19.5	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°	8857.7	100.0
0°-180°	8857.7	100.0



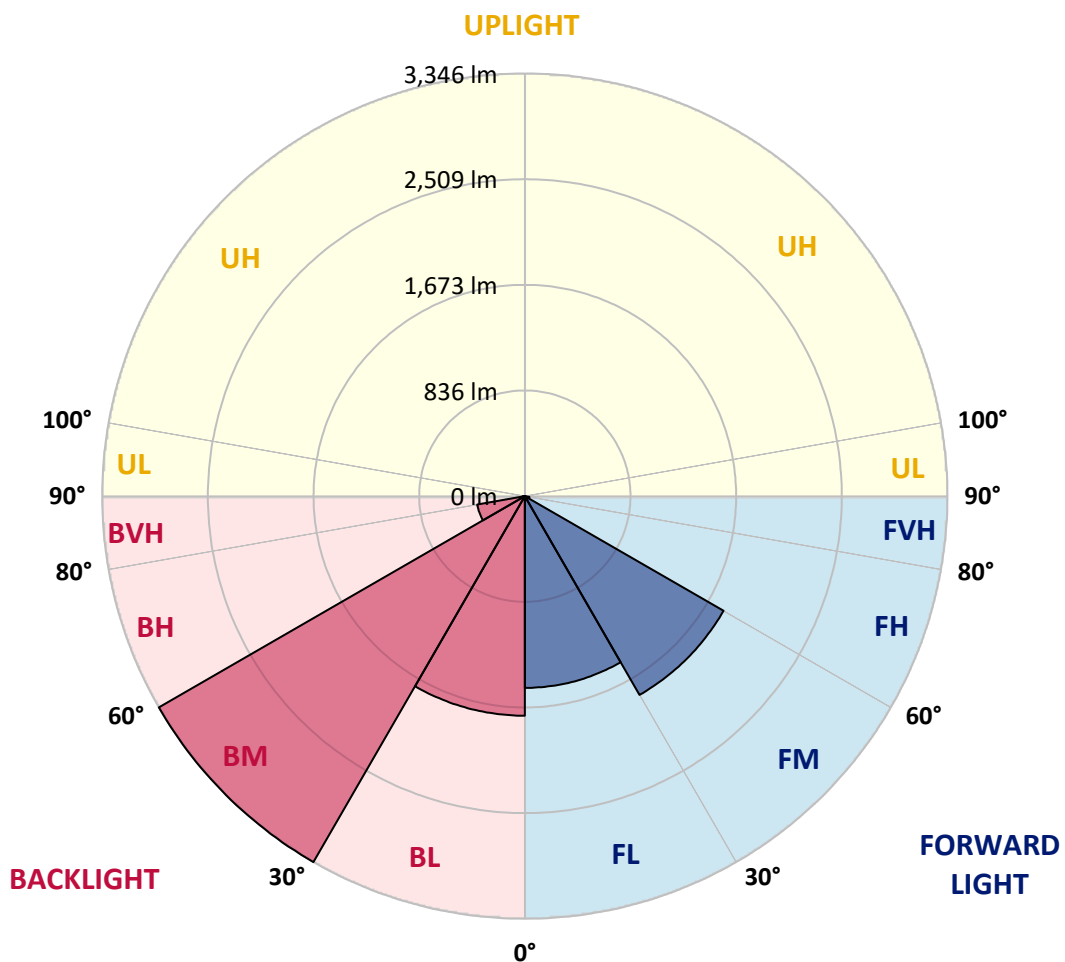
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.9	17.1			
FM (30°-60°)	1816.9	20.5			
FH (60°-80°)	36.4	0.4			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1738.3	19.6	B3/2500		
BM (30°-60°)	3345.9	37.8	B3/5000		
BH (60°-80°)	382.7	4.3	B1/500		G1/500
BVH (80°-90°)	16.9	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°	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9
2.5°	3838.9	3814.1	3790.7	3782.9	3815.4	3850.6	3828.4	3829.7	3821.9	3836.3
5°	3867.5	3833.7	3818.0	3806.3	3811.5	3848.0	3816.7	3828.4	3815.4	3832.3
7.5°	3857.1	3833.7	3818.0	3795.9	3812.8	3855.8	3825.8	3827.1	3820.6	3836.3
10°	3850.6	3833.7	3814.1	3816.7	3836.3	3872.7	3849.3	3862.3	3853.2	3862.3
12.5°	3866.2	3848.0	3837.6	3837.6	3854.5	3896.1	3884.4	3896.1	3892.2	3900.0
15°	3719.1	3736.0	3835.0	3879.2	3913.1	3954.7	3949.5	3961.2	3963.8	3975.5
17.5°	3137.2	3120.3	3112.5	3340.3	3945.6	4074.5	4070.6	4069.3	4056.3	4047.1
20°	3214.0	3207.5	3198.4	3215.3	3283.0	4137.0	4163.0	4002.9	3956.0	3952.1
22.5°	3336.4	3326.0	3292.1	3293.4	3314.3	3596.7	4034.1	3888.3	3872.7	3863.6
25°	3396.3	3375.4	3348.1	3340.3	3346.8	3294.7	3603.2	3776.4	3699.6	3664.4
27.5°	3290.8	3292.1	3270.0	3290.8	3266.1	3031.8	2900.3	3557.7	3555.1	3539.5
30°	3211.4	3207.5	3181.5	3207.5	3037.0	2775.3	2719.4	3318.2	3290.8	3270.0
32.5°	2968.0	2970.6	3046.1	3147.6	2867.8	2660.8	2491.5	2964.1	3223.1	3211.4
35°	2123.2	2128.4	2396.5	2897.7	2611.3	2433.0	2420.0	2561.8	3116.4	3121.6
37.5°	2043.7	2043.7	2037.2	2119.2	2409.5	2340.5	2366.6	2352.3	2854.7	2867.8
40°	1986.5	1974.8	1965.6	1836.8	1675.4	2275.5	2293.7	2228.6	2698.5	2701.1
42.5°	1917.5	1904.5	1907.1	1668.8	1499.6	2114.0	2063.3	1976.1	2438.2	2440.8
45°	1791.2	1813.3	1829.0	1460.6	1447.5	1510.0	1903.2	1848.5	2262.4	2310.6
47.5°	911.2	930.8	1428.0	1343.4	1373.3	1342.1	1607.7	1609.0	1882.3	2042.4
50°	826.6	821.4	822.7	783.7	1267.9	1085.7	1162.5	1474.9	1507.4	1736.5
52.5°	770.6	769.3	689.9	613.1	796.7	955.5	843.5	1067.4	1120.8	1471.0
55°	570.2	611.8	544.1	576.7	498.6	765.4	761.5	963.3	981.5	1179.4
57.5°	5.2	6.5	15.6	438.7	345.0	382.7	525.9	657.4	689.9	919.0
60°	1.3	2.6	6.5	13.0	223.9	235.6	351.5	380.1	428.3	548.0
62.5°	0.0	0.0	2.6	6.5	11.7	96.3	112.0	122.4	188.8	279.9
65°	0.0	0.0	1.3	3.9	6.5	15.6	27.3	57.3	82.0	101.5
67.5°	0.0	0.0	1.3	2.6	5.2	7.8	15.6	22.1	35.1	59.9
70°	0.0	0.0	1.3	2.6	3.9	6.5	10.4	15.6	20.8	29.9
72.5°	0.0	0.0	1.3	2.6	2.6	7.8	7.8	11.7	15.6	19.5
75°	0.0	0.0	1.3	1.3	2.6	5.2	7.8	9.1	10.4	15.6
77.5°	0.0	0.0	1.3	2.6	3.9	5.2	6.5	10.4	9.1	9.1
80°	0.0	0.0	1.3	3.9	3.9	6.5	7.8	10.4	6.5	6.5
82.5°	0.0	0.0	1.3	5.2	3.9	13.0	13.0	14.3	5.2	5.2
85°	0.0	0.0	3.9	2.6	7.8	13.0	11.7	7.8	6.5	3.9
87.5°	0.0	0.0	1.3	1.3	2.6	3.9	9.1	7.8	2.6	2.6
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°
3821.9	0°	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9	3821.9
3798.5	2.5°	3850.6	3833.7	3868.8	3864.9	3848.0	3840.2	3831.0	3823.2	3766.0
3801.1	5°	3851.9	3825.8	3868.8	3861.0	3858.4	3845.4	3837.6	3849.3	3797.2
3811.5	7.5°	3851.9	3825.8	3872.7	3875.3	3871.4	3861.0	3859.7	3867.5	3824.5
3829.7	10°	3877.9	3867.5	3906.5	3910.5	3905.2	3902.6	3896.1	3890.9	3845.4
3892.2	12.5°	3932.6	3911.8	3956.0	3967.7	3963.8	3970.3	3954.7	3962.5	3915.7
3956.0	15°	3999.0	4000.3	4034.1	4060.2	4057.6	4078.4	4054.9	4075.8	4041.9
4028.9	17.5°	4100.5	4114.8	4163.0	4202.0	4216.4	4232.0	4216.4	4222.9	4174.7
3948.2	20°	3993.8	4047.1	4278.8	4350.4	4380.4	4394.7	4368.7	4376.5	4328.3
3849.3	22.5°	3897.4	3966.4	4172.1	4396.0	4488.4	4517.1	4508.0	4506.7	4488.4
3654.0	25°	3755.5	3894.8	3987.3	4224.2	4514.5	4566.5	4571.7	4570.4	4543.1
3534.2	27.5°	3581.1	3612.4	3851.9	3996.4	4332.2	4530.1	4522.3	4484.5	4448.1
3285.6	30°	3358.5	3500.4	3608.4	3838.9	4096.6	4418.1	4418.1	4389.5	4351.7
3197.1	32.5°	3245.3	3428.8	3529.0	3612.4	3832.3	4293.2	4345.2	4315.3	4285.4
3128.1	35°	3185.4	3212.7	3447.0	3522.5	3708.7	4052.3	4263.2	4233.3	4211.2
2944.6	37.5°	3053.9	3117.7	3227.0	3428.8	3486.1	3855.8	4153.9	4138.3	4112.2
2706.3	40°	2761.0	2931.5	3099.5	3290.8	3350.7	3603.2	4021.1	4027.6	3992.5
2452.5	42.5°	2587.9	2703.7	2966.7	3095.6	3257.0	3440.5	3892.2	3902.6	3877.9
2323.6	45°	2384.8	2513.7	2698.5	2932.8	3152.8	3216.6	3664.4	3773.8	3752.9
2067.2	47.5°	2198.7	2302.8	2529.3	2766.2	3009.6	3000.5	3402.8	3608.4	3579.8
1870.6	50°	1934.4	2116.6	2223.4	2440.8	2804.0	2828.7	3124.2	3414.5	3391.1
1589.4	52.5°	1631.1	1860.2	2064.6	2263.7	2595.7	2654.3	2865.2	3216.6	3201.0
1214.5	55°	1425.4	1592.0	1822.4	1982.6	2343.1	2499.4	2671.2	3027.9	3020.1
998.4	57.5°	1014.1	1335.6	1525.7	1749.6	1939.6	2222.1	2349.7	2643.9	2571.0
553.2	60°	687.3	838.3	1070.0	1310.9	1438.4	1720.9	1839.4	2075.0	2055.5
330.6	62.5°	363.2	502.5	667.8	788.9	881.3	1156.0	1205.4	1459.3	1452.8
132.8	65°	160.1	212.2	361.9	424.4	519.4	647.0	689.9	781.0	758.9
65.1	67.5°	83.3	126.3	204.4	251.2	316.3	364.5	399.6	428.3	446.5
43.0	70°	50.8	92.4	126.3	174.4	217.4	256.4	283.8	322.8	346.3
22.1	72.5°	37.8	58.6	87.2	134.1	157.5	203.1	230.4	259.0	279.9
18.2	75°	20.8	39.1	70.3	105.4	126.3	165.3	190.1	209.6	216.1
10.4	77.5°	13.0	29.9	58.6	82.0	98.9	134.1	127.6	145.8	161.4
7.8	80°	9.1	22.1	45.6	67.7	69.0	85.9	101.5	117.2	127.6
5.2	82.5°	6.5	18.2	33.8	52.1	45.6	66.4	79.4	91.1	66.4
3.9	85°	5.2	13.0	16.9	31.2	26.0	46.9	40.4	39.1	26.0
2.6	87.5°	3.9	6.5	11.7	14.3	10.4	10.4	13.0	15.6	13.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3821.9
3726.9
3752.9
3775.1
3807.6
3874.0
3986.0
4133.1
4294.5
4429.9
4501.4
4419.4
4337.4
4260.6
4179.9
4086.2
3984.7
3875.3
3755.5
3600.6
3395.0
3211.4
3029.2
2563.1
2056.8
1454.1
749.8
446.5
347.6
283.8
212.2
164.0
128.9
48.2
26.0
13.0
0.0

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