

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: P477555

Luminaire Tested: **IFLD-M-SA4D-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477555
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

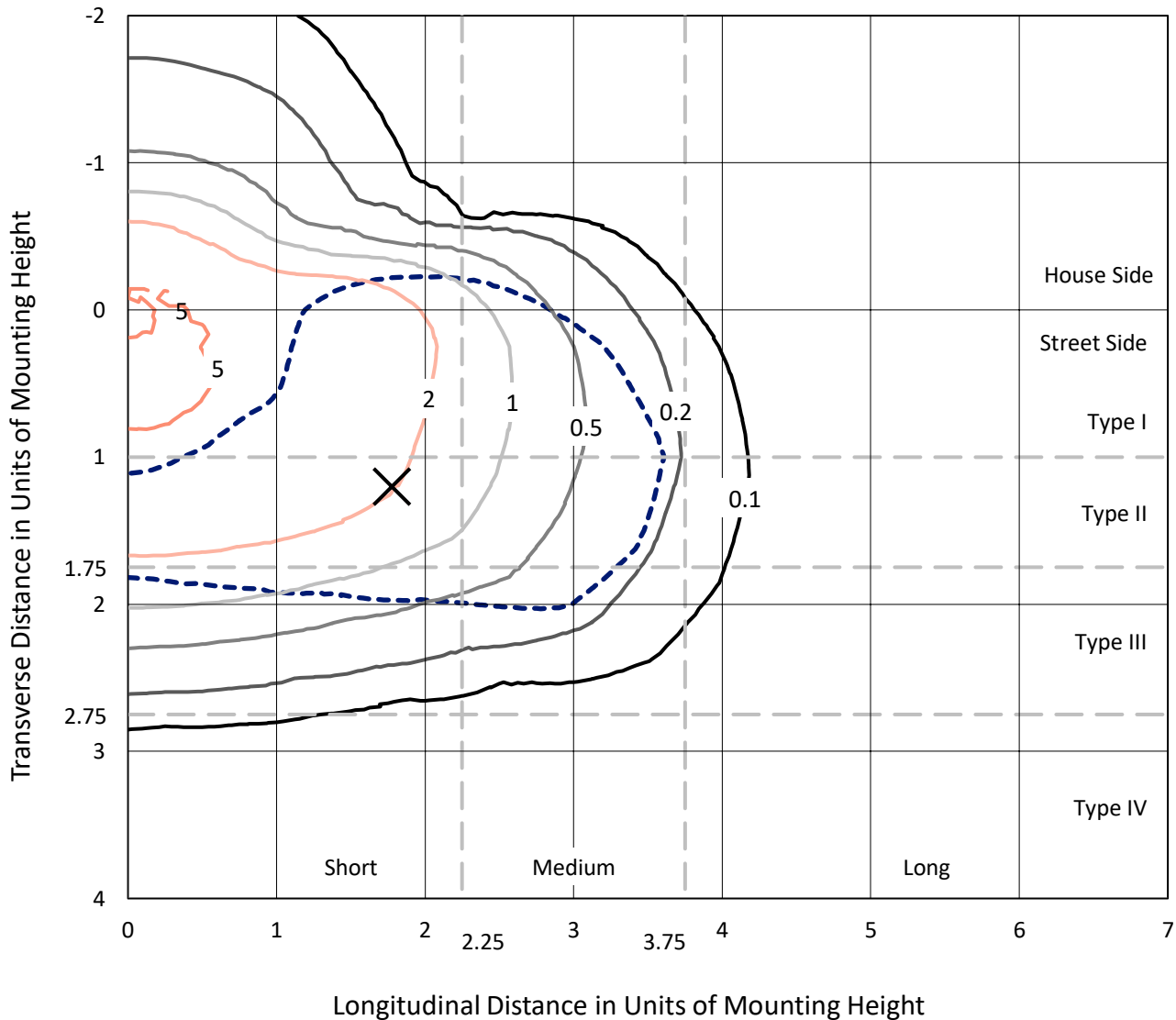
Lumens per Lamp: N/A
Luminaire Lumens: 25318.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (A_{in}): 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

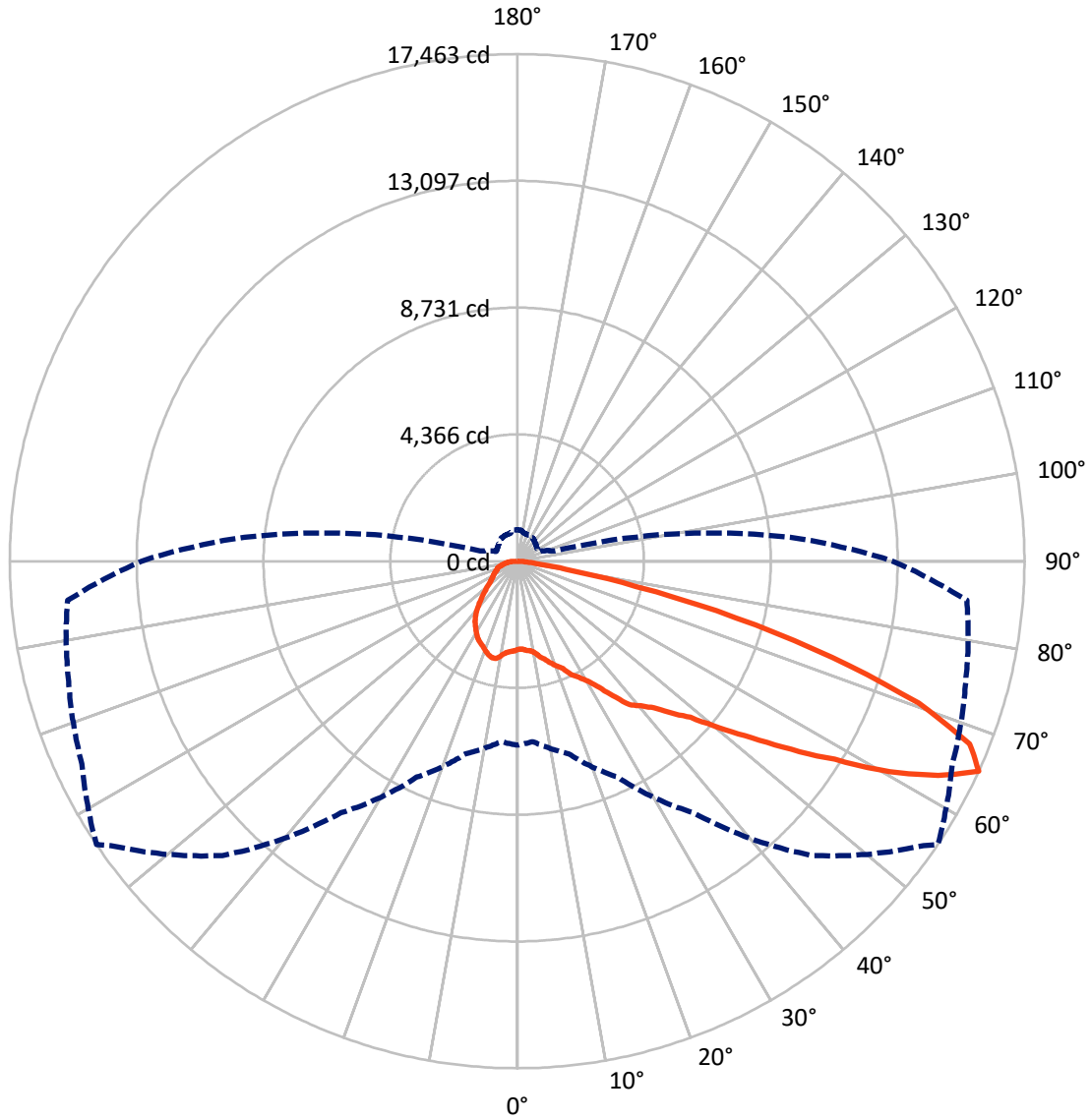
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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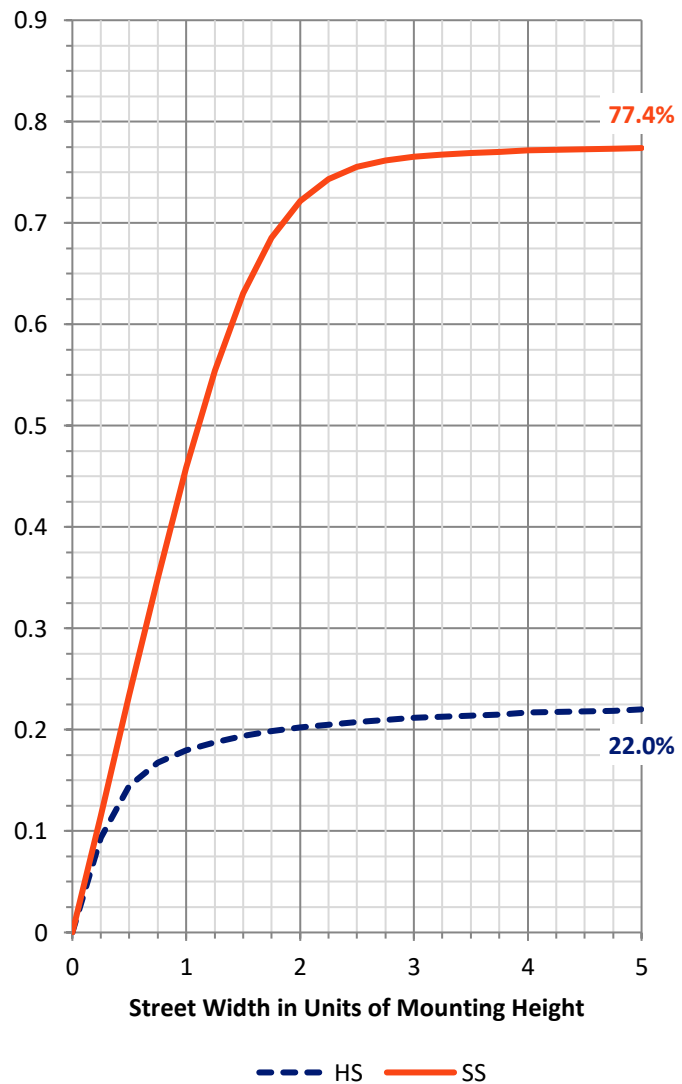
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5678.1	0.0	5678.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	19640.5	0.0	19640.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	25318.6	0.0	25318.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	1.2
10°-20°	977.9	3.9
20°-30°	1741.2	6.9
30°-40°	2607.3	10.3
40°-50°	3863.1	15.3
50°-60°	5952.5	23.5
60°-70°	6739.0	26.6
70°-80°	2796.7	11.0
80°-90°	339.8	1.3
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°	25318.6	100.0
0°-180°	25318.6	100.0

Coefficient of Utilization

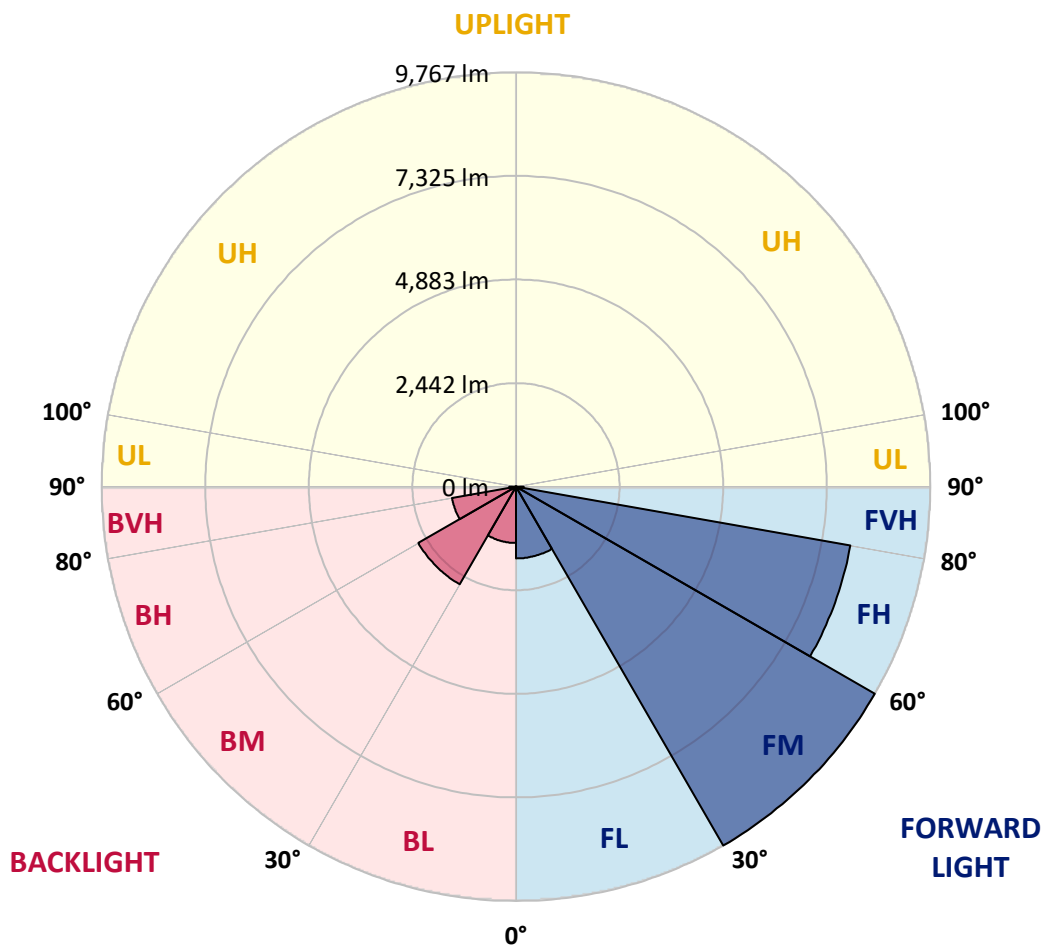


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.0	6.7			
FM (30°-60°)	9766.8	38.6			
FH (60°-80°)	8002.4	31.6			G4/12000
FVH (80°-90°)	179.2	0.7			G2/225
BL (0°-30°)	1328.2	5.2	B3/2500		
BM (30°-60°)	2656.1	10.5	B3/5000		
BH (60°-80°)	1533.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	160.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
2.5°	2959.5	2975.4	2964.8	2996.6	3023.1	3023.1	3044.3	3028.4	3049.6	3078.7
5°	3057.5	2993.9	3028.4	3044.3	3036.3	3049.6	3028.4	3081.3	3046.9	3102.5
7.5°	3081.3	3105.2	3134.3	3107.8	3131.7	3118.4	3121.1	3113.1	3094.6	3139.6
10°	3256.2	3221.8	3288.0	3248.3	3243.0	3237.7	3227.1	3187.3	3232.4	3235.0
12.5°	3457.6	3425.8	3423.1	3391.3	3433.7	3356.9	3372.8	3351.6	3359.5	3370.1
15°	3603.3	3590.0	3651.0	3613.9	3558.3	3523.8	3560.9	3502.6	3531.8	3526.5
17.5°	3892.1	3889.4	3844.4	3783.5	3751.7	3701.3	3693.4	3669.5	3690.7	3680.1
20°	4093.4	4122.6	4130.5	4059.0	3937.1	3881.5	3868.2	3849.7	3873.5	3865.6
22.5°	4400.8	4355.7	4390.2	4265.7	4220.6	4088.1	4040.5	4014.0	4127.9	4098.7
25°	4596.8	4644.5	4610.1	4567.7	4467.0	4302.8	4268.3	4326.6	4371.6	4339.8
27.5°	5039.3	4991.6	4959.8	4832.7	4766.4	4594.2	4554.5	4533.3	4543.9	4562.4
30°	5375.8	5402.3	5330.8	5240.7	5073.8	4898.9	4806.2	4787.6	4750.5	4718.7
32.5°	5855.4	5815.6	5773.2	5714.9	5571.9	5341.4	5251.3	5182.4	5071.1	4922.7
35°	6085.9	6199.8	6168.0	6011.7	5903.0	5815.6	5789.1	5683.1	5590.4	5357.2
37.5°	6470.0	6517.7	6472.7	6422.3	6372.0	6279.3	6247.5	6276.6	6093.8	5709.6
40°	6719.1	6819.8	6912.5	6772.1	6761.5	6780.0	6584.0	6549.5	6173.3	5971.9
42.5°	7227.8	7270.2	7288.7	7283.4	7344.4	7344.4	6970.8	6896.6	6629.0	6464.7
45°	7900.7	7935.2	8001.4	8049.1	7980.2	8014.7	7482.1	7453.0	7214.5	7182.7
47.5°	8483.6	8565.8	8714.1	8854.6	8944.6	8828.1	8245.2	8038.5	7977.6	8168.3
50°	8992.3	8894.3	9241.4	9384.5	9779.2	9972.6	9087.7	9005.6	8907.6	9273.2
52.5°	9042.7	9175.1	9665.3	9951.4	10764.8	11122.5	10121.0	10086.6	9967.3	10388.6
55°	9403.0	9387.1	9879.9	10499.9	11466.9	12068.4	11466.9	11445.8	11186.1	11586.2
57.5°	9342.1	9503.7	9893.2	10759.5	12100.2	13083.1	13027.5	12881.8	12518.8	12844.7
60°	9135.4	9177.8	9652.1	10751.6	12468.5	14124.4	14712.6	14741.7	13999.9	14259.5
62.5°	7964.3	8062.4	8663.8	9906.4	12206.2	14842.4	16357.9	16254.6	15661.1	15364.3
65°	6334.9	6236.9	6862.2	8205.4	10574.1	14333.7	17078.5	17462.7	16530.1	15987.0
67.5°	3884.1	3860.3	4461.7	5646.0	7911.3	12198.2	16503.6	16803.0	16289.0	15854.5
70°	2000.4	1939.4	2315.6	3150.2	4973.1	8949.9	14362.8	14656.9	15147.1	14219.8
72.5°	932.6	919.4	1120.7	1549.9	2532.9	5261.9	11122.5	11334.5	12367.8	11988.9
75°	548.4	556.4	670.3	810.7	1234.7	2479.9	7381.5	7792.1	8912.9	8640.0
77.5°	410.7	410.7	476.9	564.3	720.7	959.1	3643.0	4186.2	5211.5	4686.9
80°	302.0	307.3	365.6	423.9	500.8	495.5	1446.6	1695.7	2389.8	2042.7
82.5°	235.8	243.8	283.5	315.3	352.4	299.4	593.5	638.5	983.0	781.6
85°	164.3	169.6	222.6	214.6	214.6	166.9	246.4	259.6	389.5	370.9
87.5°	39.7	45.0	108.6	119.2	90.1	50.3	76.8	87.4	140.4	161.6
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3039.0	0°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
3091.9	2.5°	3052.2	3062.8	3107.8	3084.0	3097.2	3041.6	3086.6	3049.6	3081.3	3065.4
3115.8	5°	3137.0	3113.1	3139.6	3121.1	3121.1	3142.3	3174.1	3150.2	3197.9	3176.7
3134.3	7.5°	3171.4	3174.1	3190.0	3192.6	3179.4	3245.6	3248.3	3240.3	3285.4	3274.8
3261.5	10°	3256.2	3258.9	3288.0	3303.9	3290.7	3314.5	3288.0	3266.8	3264.2	3253.6
3362.2	12.5°	3391.3	3417.8	3412.5	3425.8	3428.4	3327.7	3266.8	3163.5	3150.2	3163.5
3510.6	15°	3515.9	3505.3	3510.6	3537.1	3425.8	3264.2	3155.5	3068.1	3073.4	3076.0
3704.0	17.5°	3664.2	3672.2	3680.1	3558.3	3354.2	3163.5	3068.1	3068.1	3041.6	3052.2
3839.1	20°	3833.8	3802.0	3733.1	3560.9	3229.7	3046.9	3017.8	3017.8	2986.0	2964.8
3984.8	22.5°	3966.3	3902.7	3799.4	3478.8	3118.4	3001.9	2930.3	2880.0	2842.9	2800.5
4146.4	25°	4051.1	4016.6	3815.3	3394.0	3036.3	2882.6	2776.7	2699.8	2652.1	2596.5
4273.6	27.5°	4180.9	4114.6	3860.3	3296.0	2946.2	2763.4	2599.1	2479.9	2389.8	2331.5
4467.0	30°	4355.7	4260.4	3828.5	3155.5	2808.4	2556.7	2363.3	2209.7	2106.3	2058.6
4649.8	32.5°	4498.8	4374.3	3802.0	3028.4	2654.8	2347.4	2090.4	1934.1	1875.8	1814.9
4957.2	35°	4771.7	4525.3	3783.5	2956.8	2517.0	2138.1	1867.9	1732.8	1658.6	1568.5
5140.0	37.5°	4981.0	4787.6	3738.4	2808.4	2339.5	1934.1	1698.3	1576.4	1465.2	1369.8
5563.9	40°	5309.6	5153.2	3741.1	2599.1	2130.2	1759.3	1565.8	1438.7	1298.2	1216.1
6191.8	42.5°	5926.9	5513.6	3757.0	2432.2	1894.4	1616.2	1446.6	1295.6	1155.2	1086.3
6907.2	45°	6684.6	6009.0	3658.9	2281.2	1653.3	1481.1	1303.5	1152.5	1062.4	1012.1
7879.6	47.5°	7556.3	6493.9	3526.5	1997.7	1451.9	1338.0	1171.1	1083.6	1017.4	988.3
9132.8	50°	8531.3	7188.0	3489.4	1738.1	1295.6	1216.1	1107.5	1041.2	996.2	961.8
10544.9	52.5°	9787.2	7996.1	3415.2	1470.5	1160.5	1118.1	1083.6	1038.6	998.9	969.7
11861.7	55°	10987.4	8891.7	3335.7	1250.6	1065.1	1070.4	1088.9	1049.2	1014.8	969.7
13337.5	57.5°	12338.6	9805.7	3041.6	1088.9	993.6	1046.5	1083.6	1038.6	1004.2	969.7
14847.7	60°	13173.2	10319.7	2466.7	948.5	930.0	1001.5	1051.8	1004.2	967.1	980.3
15541.9	62.5°	13512.3	10049.5	1859.9	861.1	884.9	940.6	1001.5	983.0	956.5	1006.8
15533.9	65°	12934.8	9426.9	1330.0	786.9	824.0	879.6	956.5	977.7	985.6	1083.6
14267.5	67.5°	11509.3	8208.1	977.7	726.0	760.4	842.5	988.3	1022.7	1017.4	1139.3
11973.0	70°	9209.6	6419.7	763.1	675.6	736.6	871.7	1033.3	1033.3	996.2	1139.3
9132.8	72.5°	6700.5	4525.3	657.1	617.3	675.6	800.1	1028.0	1025.3	977.7	1041.2
5815.6	75°	4056.4	2633.6	580.2	559.0	580.2	686.2	983.0	967.1	900.8	895.5
2797.9	77.5°	2021.6	1324.7	474.3	495.5	506.1	574.9	863.7	887.6	797.5	776.3
1104.8	80°	853.1	577.6	394.8	426.6	426.6	484.9	718.0	733.9	662.4	622.6
437.2	82.5°	389.5	331.2	336.5	370.9	347.1	376.2	569.6	588.2	537.8	471.6
185.5	85°	164.3	188.1	257.0	291.4	257.0	243.8	392.1	413.3	349.7	291.4
79.5	87.5°	74.2	103.3	161.6	212.0	129.8	113.9	209.3	217.3	174.9	129.8
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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<u>180°</u>
3039.0
3036.3
3147.6
3258.9
3253.6
3168.8
3113.1
3054.9
2933.0
2776.7
2607.1
2358.0
2085.1
1812.2
1560.5
1372.4
1224.1
1091.6
1022.7
983.0
967.1
967.1
967.1
967.1
969.7
993.6
1083.6
1147.2
1115.4
1004.2
884.9
763.1
609.4
461.0
294.1
121.9
0.0

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