

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: P477633

Luminaire Tested: **IFLD-M-SA4D-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477633
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

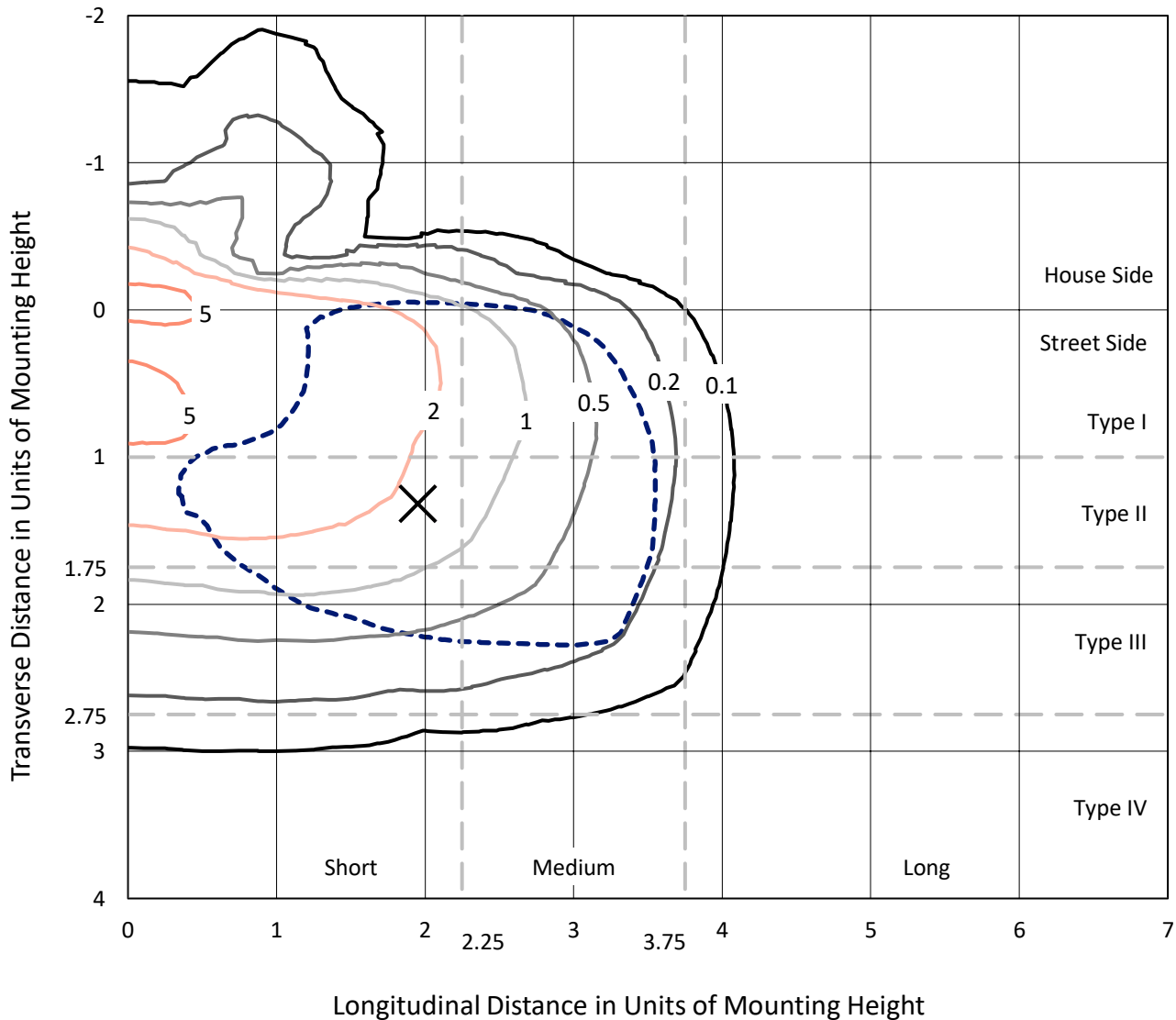
Lumens per Lamp: N/A
Luminaire Lumens: 22635.8 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

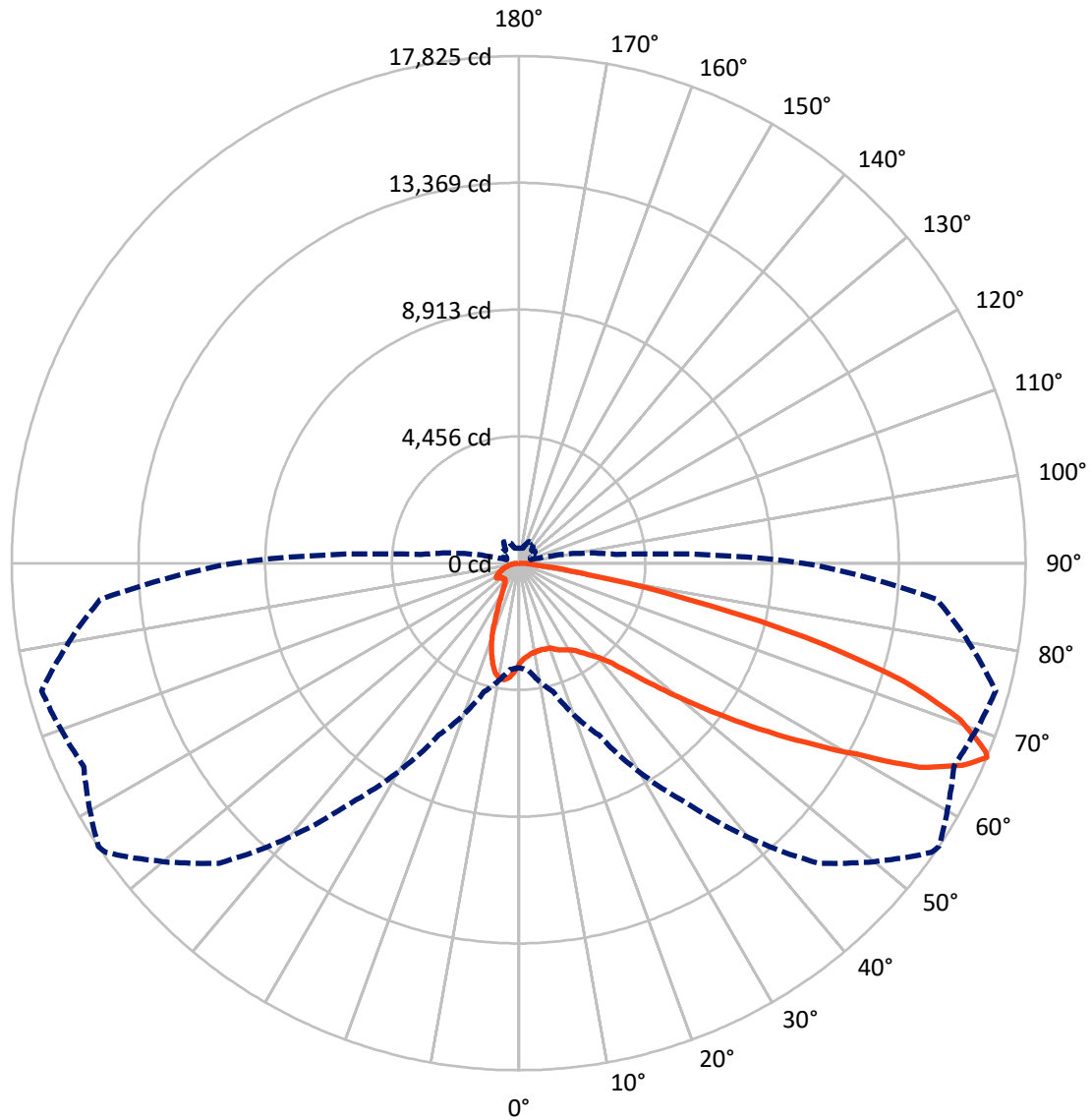
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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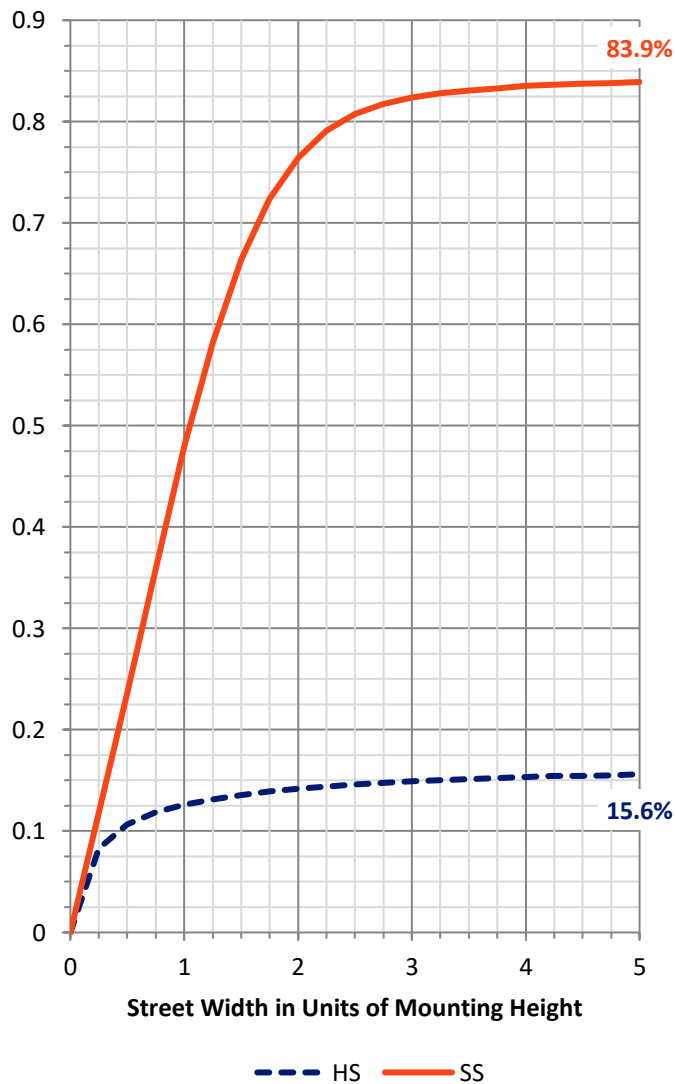
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3583.5	0.0	3583.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	19052.3	0.0	19052.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	22635.8	0.0	22635.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	1.5
10°-20°	925.7	4.1
20°-30°	1451.7	6.4
30°-40°	2072.4	9.2
40°-50°	3127.8	13.8
50°-60°	4978.9	22.0
60°-70°	6365.1	28.1
70°-80°	3103.4	13.7
80°-90°	271.5	1.2
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°	22635.8	100.0
0°-180°	22635.8	100.0

Coefficient of Utilization

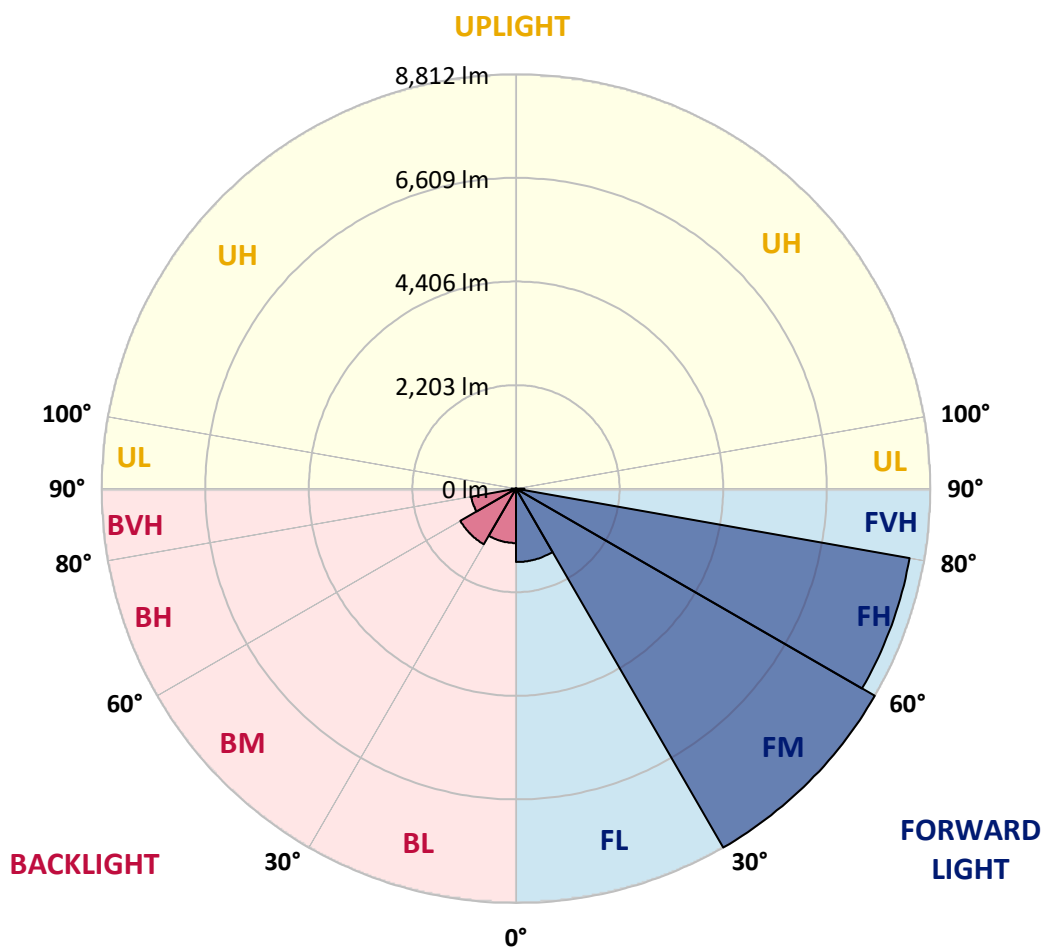


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.9	6.9			
FM (30°-60°)	8811.9	38.9			
FH (60°-80°)	8500.2	37.6			G4/12000
FVH (80°-90°)	180.3	0.8			G2/225
BL (0°-30°)	1156.8	5.1	B3/2500		
BM (30°-60°)	1367.1	6.0	B2/2500		
BH (60°-80°)	968.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	91.2	0.4			G1/100
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°	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1
2.5°	3235.4	3222.1	3238.1	3222.1	3293.8	3336.3	3349.5	3368.1	3434.5	3498.2
5°	3100.1	3041.7	3105.4	3126.6	3131.9	3203.6	3277.9	3291.2	3325.7	3429.2
7.5°	2874.5	2940.8	2916.9	2980.6	3047.0	3118.6	3240.7	3206.2	3333.6	3431.8
10°	2826.7	2832.0	2858.5	2882.4	2940.8	3033.7	3203.6	3182.3	3312.4	3522.1
12.5°	2874.5	2874.5	2866.5	2847.9	2914.3	3004.5	3139.9	3150.5	3354.9	3548.6
15°	3041.7	3073.5	2988.6	3001.9	2975.3	3004.5	3123.9	3147.8	3370.8	3569.8
17.5°	3450.4	3439.8	3338.9	3198.3	3081.5	3062.9	3145.2	3171.7	3354.9	3630.9
20°	3848.5	3827.3	3652.1	3506.1	3275.2	3166.4	3179.7	3182.3	3381.4	3670.7
22.5°	4291.8	4347.5	4156.4	3859.1	3572.5	3301.8	3248.7	3291.2	3442.4	3691.9
25°	4987.2	4867.7	4703.2	4313.0	3851.2	3511.5	3362.8	3384.1	3500.8	3745.0
27.5°	5488.8	5441.0	5183.6	4867.7	4241.3	3676.0	3423.9	3463.7	3607.0	3742.4
30°	5971.9	5971.9	5815.3	5342.8	4652.7	3952.0	3553.9	3535.3	3556.6	3737.1
32.5°	6537.2	6460.2	6234.6	5921.4	5170.3	4204.2	3657.4	3662.7	3662.7	3835.3
35°	6834.5	6959.2	6807.9	6298.3	5565.8	4623.5	3906.9	3867.1	3837.9	3944.1
37.5°	7269.7	7344.1	7184.8	6884.9	6056.8	4963.3	4127.2	4095.4	3925.5	4029.0
40°	7532.5	7519.2	7513.9	7375.9	6707.1	5364.1	4451.0	4368.7	4140.5	4328.9
42.5°	7681.1	7654.6	7981.1	7896.1	7320.2	5953.3	4857.1	4812.0	4559.8	4862.4
45°	7848.3	8044.8	8312.8	8551.7	8034.1	6781.4	5544.5	5480.8	5255.2	5640.1
47.5°	7994.3	8235.9	8578.2	8833.0	8679.1	7681.1	6393.9	6409.8	6261.2	6656.6
50°	8238.5	8262.4	8726.9	9241.8	9361.2	8511.9	7535.2	7508.6	7442.3	7997.0
52.5°	8164.2	8235.9	8822.4	9480.7	9677.1	9390.4	8761.4	8841.0	8753.4	9451.5
55°	6953.9	7168.9	8764.0	9732.8	10425.5	10383.1	10338.0	10284.9	10279.6	11086.4
57.5°	6404.5	6579.7	7721.0	10011.5	11227.1	11540.3	11832.2	11890.6	11888.0	12862.1
60°	6043.5	6224.0	7298.9	9860.2	11909.2	13055.8	13615.8	13623.8	13607.9	14759.8
62.5°	5337.5	5512.7	6569.0	9032.1	12097.7	14454.6	15702.0	15805.5	15075.6	16394.7
65°	4488.2	4631.5	5563.1	7766.1	11596.0	15343.7	17270.6	17148.5	16312.5	17329.0
67°	3670.7	3766.3	4674.0	6667.2	10284.9	14916.4	17724.5	17825.3	16883.1	17368.8
67.5°	3437.1	3524.7	4382.0	6293.0	9785.9	14592.6	17740.4	17724.5	16893.7	17376.8
70°	2386.1	2423.2	2985.9	4328.9	7208.7	12328.6	16445.2	16482.3	16185.1	16434.6
72.5°	1581.9	1637.6	1995.9	2728.5	4249.3	8971.1	13745.9	14144.0	13955.6	13475.2
75°	1019.2	1051.0	1305.8	1624.3	2091.5	5109.3	10154.8	10420.2	9987.6	8334.1
77.5°	570.6	605.1	788.3	987.3	1019.2	2126.0	5703.8	6032.9	5111.9	3540.6
80°	355.7	400.8	594.5	586.6	485.7	780.3	2351.6	2518.8	2043.7	1218.3
82.5°	268.1	302.6	459.2	411.4	273.4	347.7	881.2	944.9	748.5	469.8
85°	183.1	230.9	331.8	254.8	143.3	167.2	350.3	376.9	342.4	228.3
87.5°	66.4	98.2	172.5	127.4	63.7	50.4	114.1	127.4	122.1	103.5
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°
3522.1	0°	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1
3553.9	2.5°	3604.3	3641.5	3660.1	3768.9	3814.0	3806.1	3816.7	3832.6	3848.5	3869.8
3599.0	5°	3633.5	3747.7	3808.7	3936.1	4021.1	3983.9	4031.7	4018.4	3999.8	3997.2
3681.3	7.5°	3729.1	3875.1	4058.2	4092.7	4129.9	4037.0	3957.4	3848.5	3822.0	3729.1
3750.3	10°	3899.0	4018.4	4241.3	4254.6	4090.1	3851.2	3673.4	3447.8	3445.1	3309.7
3856.5	12.5°	4060.9	4196.2	4376.7	4299.7	3906.9	3580.5	3291.2	3044.3	2940.8	2871.8
3920.2	15°	4161.7	4384.7	4480.2	4148.5	3585.8	3145.2	2770.9	2505.5	2399.4	2348.9
3999.8	17.5°	4254.6	4565.2	4522.7	3883.0	3190.3	2696.6	2250.7	2019.8	1990.6	1953.5
4127.2	20°	4382.0	4631.5	4371.4	3538.0	2741.7	2118.0	1834.0	1722.5	1749.1	1765.0
4140.5	22.5°	4501.5	4666.0	4180.3	3161.1	2165.8	1677.4	1536.8	1560.6	1600.5	1653.5
4172.3	25°	4554.5	4721.7	3922.8	2640.9	1648.2	1412.0	1380.2	1420.0	1486.3	1489.0
4217.5	27.5°	4589.0	4681.9	3612.3	2133.9	1303.2	1234.2	1282.0	1311.2	1319.1	1351.0
4313.0	30°	4650.1	4599.7	3219.5	1526.1	1093.5	1096.2	1157.2	1157.2	1157.2	1181.1
4408.6	32.5°	4756.3	4543.9	2760.3	1114.7	942.2	1027.2	1011.2	1005.9	995.3	966.1
4530.7	35°	4822.6	4392.6	2179.1	825.4	846.7	942.2	936.9	854.6	716.6	647.6
4841.2	37.5°	4960.6	4315.7	1603.1	637.0	790.9	899.8	870.6	671.5	520.2	453.9
5226.0	40°	5257.9	4265.2	1109.4	557.4	753.8	878.5	777.7	573.3	398.1	281.3
5820.6	42.5°	5621.5	4267.9	753.8	525.5	756.4	923.6	748.5	491.0	281.3	225.6
6614.2	45°	6109.9	4228.1	517.6	525.5	804.2	998.0	767.1	445.9	273.4	286.6
7609.5	47.5°	6635.4	4262.6	384.9	477.7	812.2	1000.6	700.7	437.9	262.8	331.8
8692.4	50°	7248.5	4297.1	318.5	440.6	814.8	968.8	645.0	427.3	273.4	350.3
9934.5	52.5°	7880.2	4405.9	270.7	416.7	846.7	955.5	645.0	443.2	273.4	305.2
11516.4	55°	8822.4	4684.6	390.2	520.2	963.5	1043.1	793.6	621.1	382.2	392.8
13031.9	57.5°	9862.9	4971.2	435.3	546.8	990.0	939.6	854.6	684.8	403.4	406.1
14210.4	60°	10547.6	4981.9	432.6	533.5	926.3	812.2	836.1	721.9	411.4	347.7
14940.3	62.5°	10821.0	4658.1	451.2	533.5	862.6	759.1	857.3	777.7	424.7	435.3
15147.3	65°	10510.5	3989.2	435.3	477.7	759.1	679.5	862.6	788.3	464.5	437.9
14775.7	67°	10024.8	3437.1	443.2	453.9	706.0	645.0	907.7	828.1	538.8	525.5
14582.0	67.5°	9886.7	3291.2	440.6	440.6	687.4	634.3	918.3	828.1	549.4	544.1
12870.0	70°	8713.6	2667.4	451.2	435.3	607.8	602.5	976.7	873.2	631.7	637.0
9454.1	72.5°	6632.7	2022.5	448.6	435.3	528.2	576.0	984.7	902.4	687.4	637.0
5295.0	75°	3768.9	1210.3	395.5	379.5	416.7	501.6	921.0	859.9	668.8	570.6
2115.4	77.5°	1558.0	623.7	363.6	342.4	345.0	408.7	767.1	801.6	637.0	485.7
706.0	80°	581.3	374.2	292.0	273.4	265.4	299.9	546.8	639.7	544.1	398.1
310.5	82.5°	302.6	233.6	199.1	199.1	180.5	191.1	294.6	424.7	411.4	273.4
124.7	85°	153.9	132.7	114.1	111.5	100.9	90.2	148.6	252.1	236.2	151.3
55.7	87.5°	82.3	74.3	47.8	45.1	37.2	23.9	26.5	50.4	82.3	66.4
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°
3522.1
3891.0
4021.1
3760.9
3304.4
2855.9
2338.3
1972.0
1746.4
1624.3
1515.5
1380.2
1207.6
950.2
679.5
451.2
273.4
220.3
292.0
368.9
406.1
313.2
414.0
392.8
358.3
440.6
430.0
517.6
533.5
589.2
565.3
509.6
459.2
363.6
215.0
124.7
47.8
0.0

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