

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: P477283

Luminaire Tested: **IFLD-M-SA4E-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477283
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

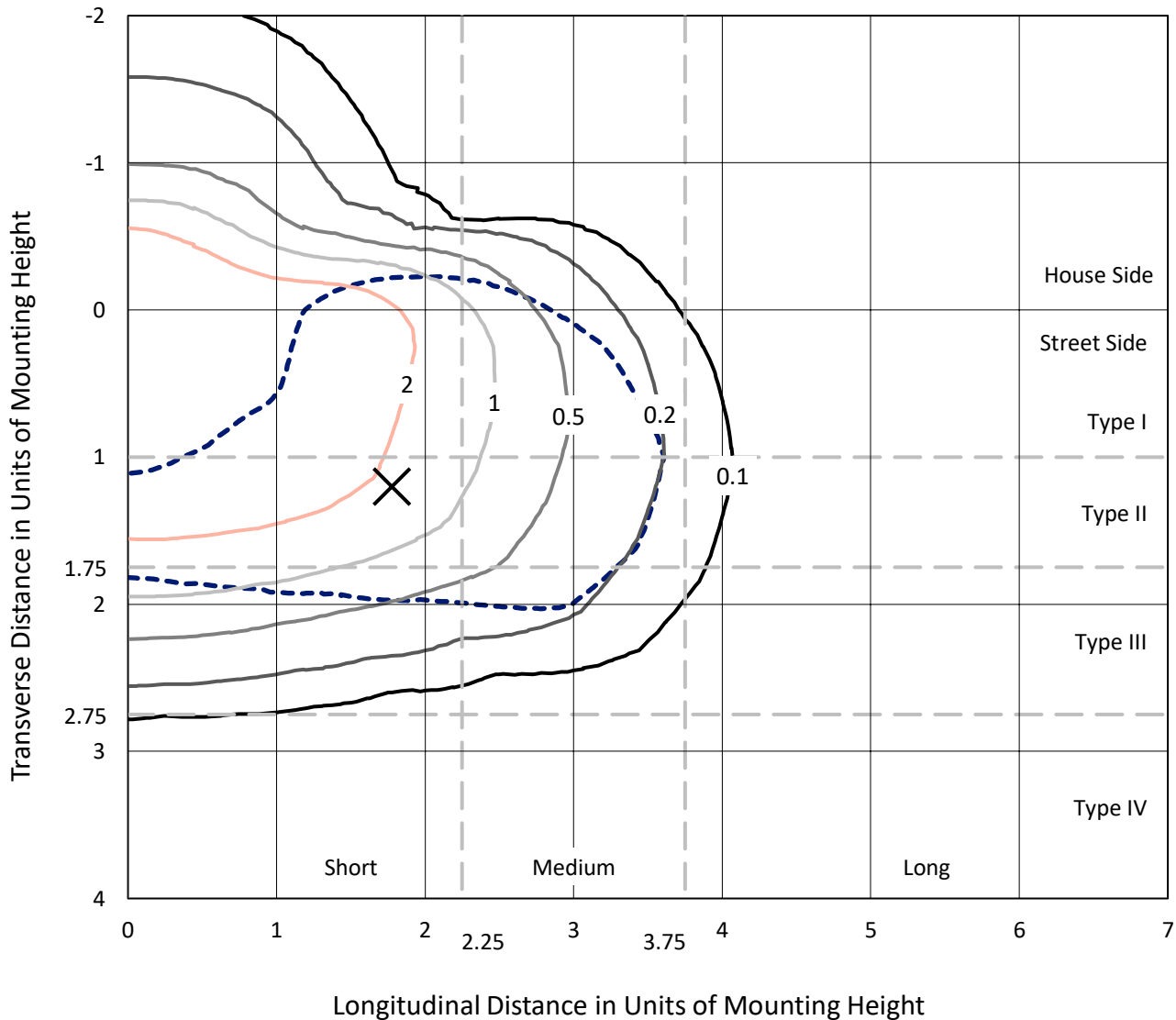
Lumens per Lamp: N/A
Luminaire Lumens: 30838.7 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

REPORT NUMBER: P477283
 CATALOG NUMBER: IFLD-M-SA4E-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

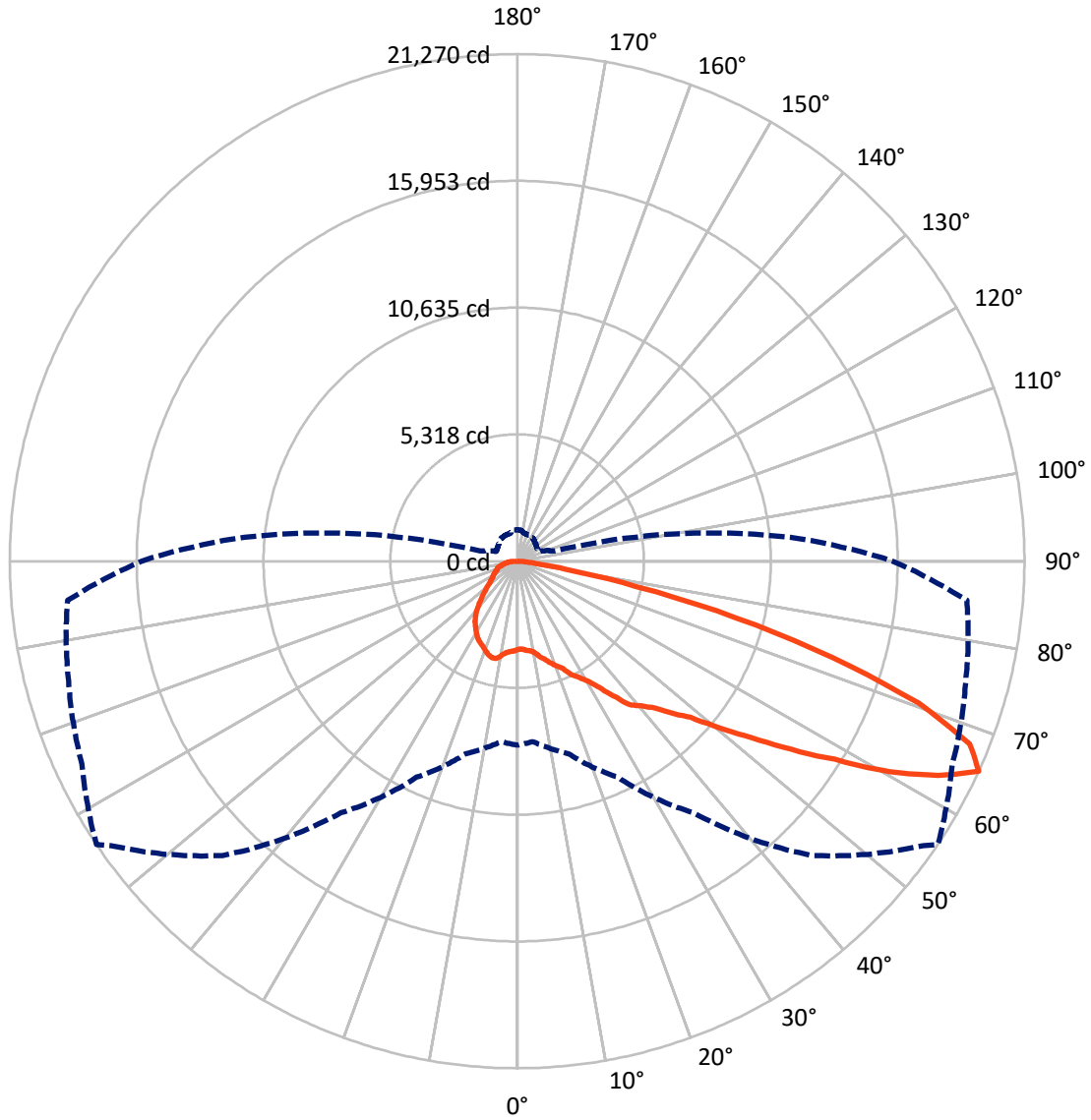
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477283
CATALOG NUMBER: IFLD-M-SA4E-727-U-T3

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	6916.1	0.0	6916.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	23922.5	0.0	23922.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	30838.7	0.0	30838.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.2
10°-20°	1191.1	3.9
20°-30°	2120.8	6.9
30°-40°	3175.8	10.3
40°-50°	4705.4	15.3
50°-60°	7250.3	23.5
60°-70°	8208.2	26.6
70°-80°	3406.5	11.0
80°-90°	413.8	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°	30838.7	100.0
0°-180°	30838.7	100.0

Coefficient of Utilization

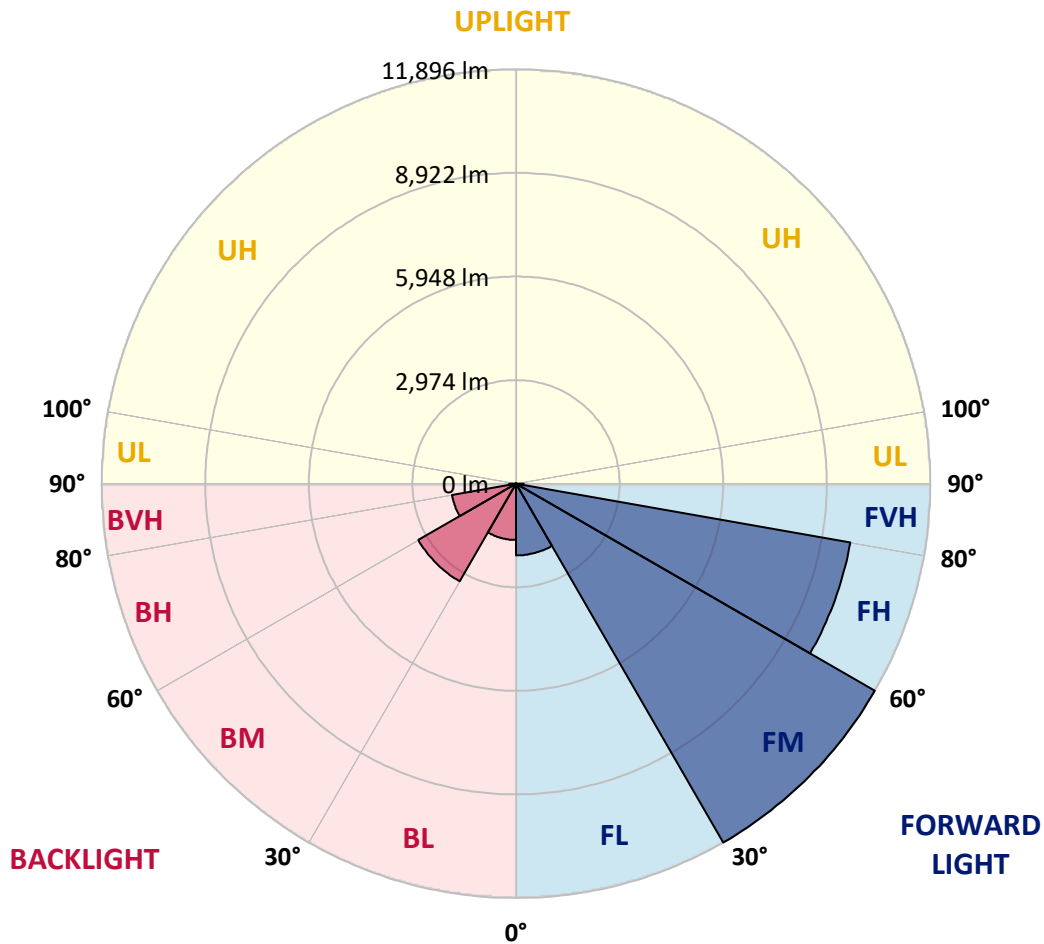


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.9	6.7			
FM (30°-60°)	11896.2	38.6			
FH (60°-80°)	9747.1	31.6			G4/12000
FVH (80°-90°)	218.3	0.7			G2/225
BL (0°-30°)	1617.7	5.2	B3/2500		
BM (30°-60°)	3235.2	10.5	B3/5000		
BH (60°-80°)	1867.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	195.6	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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 CATALOG NUMBER: IFLD-M-SA4E-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5
2.5°	3604.7	3624.1	3611.2	3649.9	3682.2	3682.2	3708.0	3688.6	3714.4	3749.9
5°	3724.1	3646.7	3688.6	3708.0	3698.3	3714.4	3688.6	3753.2	3711.2	3779.0
7.5°	3753.2	3782.2	3817.7	3785.4	3814.5	3798.3	3801.6	3791.9	3769.3	3824.1
10°	3966.1	3924.2	4004.9	3956.5	3950.0	3943.6	3930.6	3882.2	3937.1	3940.3
12.5°	4211.4	4172.7	4169.5	4130.7	4182.4	4088.8	4108.1	4082.3	4092.0	4104.9
15°	4388.9	4372.8	4447.0	4401.8	4334.0	4292.1	4337.3	4266.3	4301.8	4295.3
17.5°	4740.7	4737.4	4682.6	4608.3	4569.6	4508.3	4498.6	4469.6	4495.4	4482.5
20°	4985.9	5021.4	5031.1	4944.0	4795.5	4727.7	4711.6	4689.0	4718.1	4708.4
22.5°	5360.3	5305.4	5347.4	5195.7	5140.8	4979.5	4921.4	4889.1	5027.9	4992.4
25°	5599.1	5657.2	5615.2	5563.6	5440.9	5240.9	5198.9	5269.9	5324.8	5286.0
27.5°	6138.0	6079.9	6041.2	5886.3	5805.6	5595.8	5547.4	5521.6	5534.5	5557.1
30°	6547.8	6580.1	6493.0	6383.3	6180.0	5967.0	5854.0	5831.4	5786.2	5747.5
32.5°	7132.0	7083.6	7031.9	6960.9	6786.7	6505.9	6396.2	6312.3	6176.7	5996.0
35°	7412.7	7551.5	7512.8	7322.4	7190.0	7083.6	7051.3	6922.2	6809.2	6525.3
37.5°	7880.7	7938.7	7883.9	7822.6	7761.2	7648.3	7609.6	7645.1	7422.4	6954.5
40°	8184.0	8306.6	8419.6	8248.5	8235.6	8258.2	8019.4	7977.5	7519.2	7274.0
42.5°	8803.6	8855.2	8877.8	8871.4	8945.6	8945.6	8490.6	8400.2	8074.3	7874.2
45°	9623.3	9665.3	9745.9	9804.0	9720.1	9762.1	9113.4	9077.9	8787.5	8748.8
47.5°	10333.3	10433.3	10614.0	10785.1	10894.8	10752.8	10042.8	9791.1	9716.9	9949.2
50°	10952.9	10833.5	11256.2	11430.5	11911.3	12146.9	11069.1	10969.0	10849.6	11295.0
52.5°	11014.2	11175.6	11772.6	12121.1	13111.8	13547.5	12327.6	12285.7	12140.5	12653.6
55°	11453.1	11433.7	12034.0	12789.1	13967.0	14699.6	13967.0	13941.2	13624.9	14112.2
57.5°	11378.9	11575.7	12050.1	13105.4	14738.3	15935.6	15867.8	15690.3	15248.2	15645.1
60°	11127.1	11178.8	11756.4	13095.7	15186.9	17203.8	17920.3	17955.8	17052.2	17368.4
62.5°	9700.8	9820.2	10552.7	12066.2	14867.4	18078.4	19924.3	19798.4	19075.6	18714.1
65°	7716.1	7596.7	8358.3	9994.4	12879.5	17458.8	20802.1	21270.0	20134.1	19472.5
67.5°	4731.0	4701.9	5434.5	6877.0	9636.2	14857.7	20101.8	20466.5	19840.4	19311.1
70°	2436.5	2362.3	2820.5	3837.1	6057.3	10901.2	17494.3	17852.5	18449.5	17320.0
72.5°	1135.9	1119.8	1365.1	1887.9	3085.1	6409.1	13547.5	13805.7	15064.2	14602.8
75°	668.0	677.7	816.5	987.5	1503.8	3020.6	8990.8	9491.0	10856.1	10523.7
77.5°	500.2	500.2	580.9	687.4	877.8	1168.2	4437.3	5098.9	6347.8	5708.8
80°	367.9	374.3	445.3	516.3	609.9	603.5	1762.0	2065.4	2910.9	2488.1
82.5°	287.2	296.9	345.3	384.0	429.2	364.7	722.9	777.7	1197.3	952.0
85°	200.1	206.5	271.1	261.4	261.4	203.3	300.1	316.3	474.4	451.8
87.5°	48.4	54.9	132.3	145.2	109.7	61.3	93.6	106.5	171.0	196.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477283
 CATALOG NUMBER: IFLD-M-SA4E-727-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3701.5	0°	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5
3766.1	2.5°	3717.7	3730.6	3785.4	3756.4	3772.5	3704.7	3759.6	3714.4	3753.2	3733.8
3795.1	5°	3820.9	3791.9	3824.1	3801.6	3801.6	3827.4	3866.1	3837.1	3895.1	3869.3
3817.7	7.5°	3862.9	3866.1	3885.5	3888.7	3872.6	3953.2	3956.5	3946.8	4001.6	3988.7
3972.6	10°	3966.1	3969.4	4004.9	4024.2	4008.1	4037.1	4004.9	3979.1	3975.8	3962.9
4095.2	12.5°	4130.7	4163.0	4156.5	4172.7	4175.9	4053.3	3979.1	3853.2	3837.1	3853.2
4275.9	15°	4282.4	4269.5	4275.9	4308.2	4172.7	3975.8	3843.5	3737.0	3743.5	3746.7
4511.5	17.5°	4463.1	4472.8	4482.5	4334.0	4085.5	3853.2	3737.0	3737.0	3704.7	3717.7
4676.1	20°	4669.7	4630.9	4547.0	4337.3	3933.9	3711.2	3675.7	3675.7	3637.0	3611.2
4853.6	22.5°	4831.0	4753.6	4627.7	4237.2	3798.3	3656.3	3569.2	3507.9	3462.7	3411.1
5050.5	25°	4934.3	4892.3	4647.1	4134.0	3698.3	3511.1	3382.0	3288.4	3230.4	3162.6
5205.4	27.5°	5092.4	5011.7	4701.9	4014.6	3588.6	3365.9	3165.8	3020.6	2910.9	2839.9
5440.9	30°	5305.4	5189.2	4663.2	3843.5	3420.8	3114.2	2878.6	2691.4	2565.6	2507.5
5663.6	32.5°	5479.7	5328.0	4630.9	3688.6	3233.6	2859.2	2546.2	2355.8	2284.8	2210.6
6038.0	35°	5812.1	5511.9	4608.3	3601.5	3065.8	2604.3	2275.1	2110.5	2020.2	1910.5
6260.6	37.5°	6067.0	5831.4	4553.5	3420.8	2849.6	2355.8	2068.6	1920.1	1784.6	1668.4
6777.0	40°	6467.2	6276.8	4556.7	3165.8	2594.6	2142.8	1907.2	1752.3	1581.3	1481.3
7541.8	42.5°	7219.1	6715.7	4576.1	2962.5	2307.4	1968.5	1762.0	1578.1	1407.0	1323.1
8413.1	45°	8142.1	7319.1	4456.7	2778.6	2013.7	1804.0	1587.7	1403.8	1294.1	1232.8
9597.5	47.5°	9203.8	7909.7	4295.3	2433.3	1768.5	1629.7	1426.4	1319.9	1239.2	1203.7
11123.9	50°	10391.4	8755.2	4250.1	2117.0	1578.1	1481.3	1348.9	1268.3	1213.4	1171.4
12844.0	52.5°	11921.0	9739.5	4159.8	1791.1	1413.5	1361.8	1319.9	1265.0	1216.6	1181.1
14447.9	55°	13382.9	10830.3	4063.0	1523.2	1297.3	1303.8	1326.4	1277.9	1236.0	1181.1
16245.4	57.5°	15028.7	11943.6	3704.7	1326.4	1210.2	1274.7	1319.9	1265.0	1223.1	1181.1
18084.8	60°	16045.3	12569.7	3004.5	1155.3	1132.7	1219.9	1281.2	1223.1	1177.9	1194.0
18930.3	62.5°	16458.4	12240.5	2265.4	1048.8	1077.9	1145.6	1219.9	1197.3	1165.0	1226.3
18920.7	65°	15754.9	11482.1	1620.0	958.5	1003.6	1071.4	1165.0	1190.8	1200.5	1319.9
17378.1	67.5°	14018.7	9997.7	1190.8	884.2	926.2	1026.2	1203.7	1245.7	1239.2	1387.7
14583.4	70°	11217.5	7819.3	929.4	822.9	897.1	1061.7	1258.6	1258.6	1213.4	1387.7
11123.9	72.5°	8161.4	5511.9	800.3	751.9	822.9	974.6	1252.1	1248.9	1190.8	1268.3
7083.6	75°	4940.7	3207.8	706.7	680.9	706.7	835.8	1197.3	1177.9	1097.2	1090.8
3407.8	77.5°	2462.3	1613.6	577.7	603.5	616.4	700.3	1052.0	1081.1	971.4	945.5
1345.7	80°	1039.1	703.5	480.8	519.6	519.6	590.6	874.6	893.9	806.8	758.4
532.5	82.5°	474.4	403.4	409.8	451.8	422.8	458.3	693.8	716.4	655.1	574.4
225.9	85°	200.1	229.1	313.0	355.0	313.0	296.9	477.6	503.4	426.0	355.0
96.8	87.5°	90.4	125.9	196.9	258.2	158.1	138.8	254.9	264.6	213.0	158.1
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>
3701.5
3698.3
3833.8
3969.4
3962.9
3859.6
3791.9
3720.9
3572.4
3382.0
3175.5
2872.1
2539.8
2207.4
1900.8
1671.7
1490.9
1329.6
1245.7
1197.3
1177.9
1177.9
1177.9
1177.9
1181.1
1210.2
1319.9
1397.3
1358.6
1223.1
1077.9
929.4
742.2
561.5
358.2
148.4
0.0

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