

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: P638394

Luminaire Tested: **IFLD-S-SA2E-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638394  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

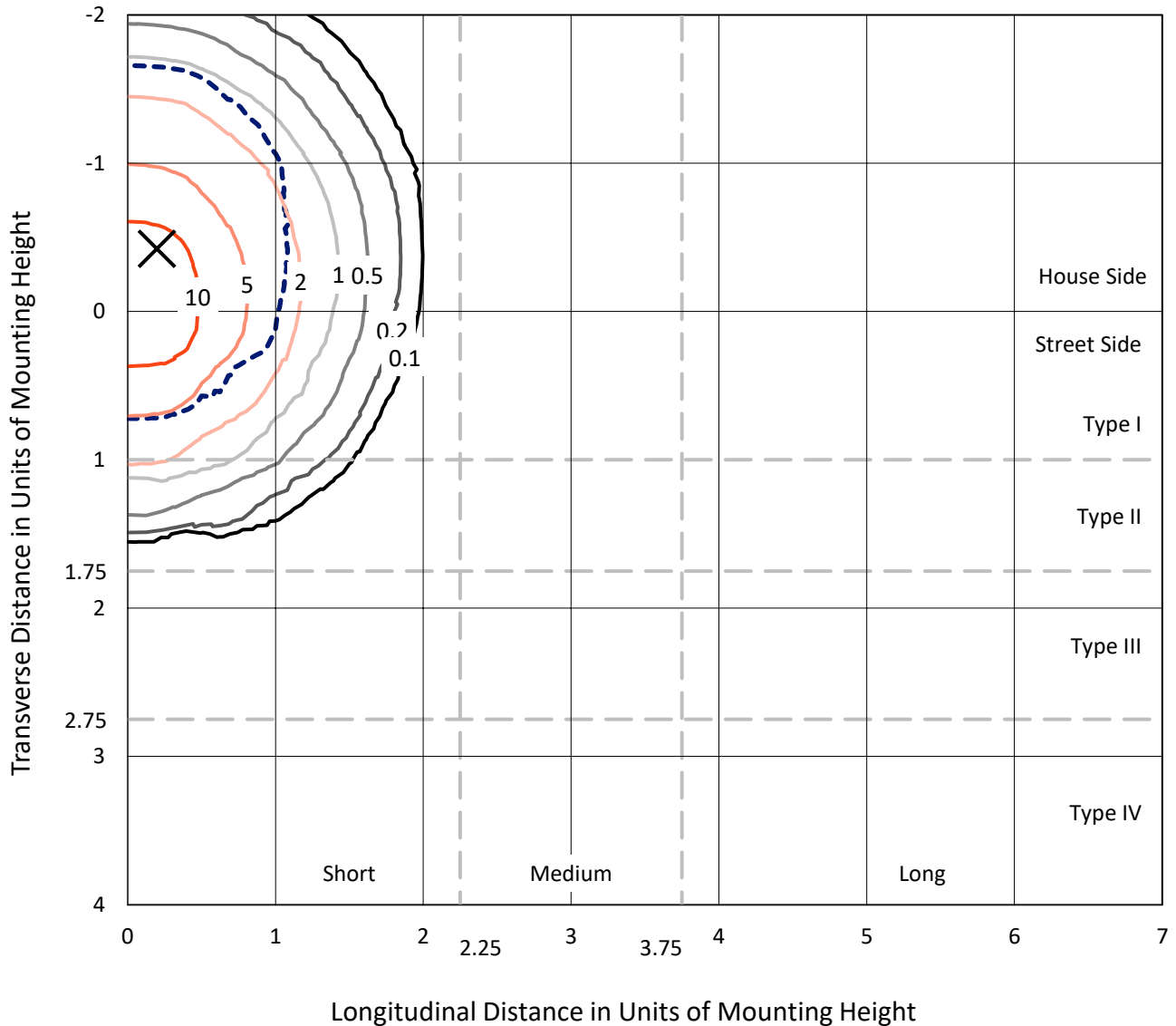
Lumens per Lamp: N/A  
Luminaire Lumens: 13157.1 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

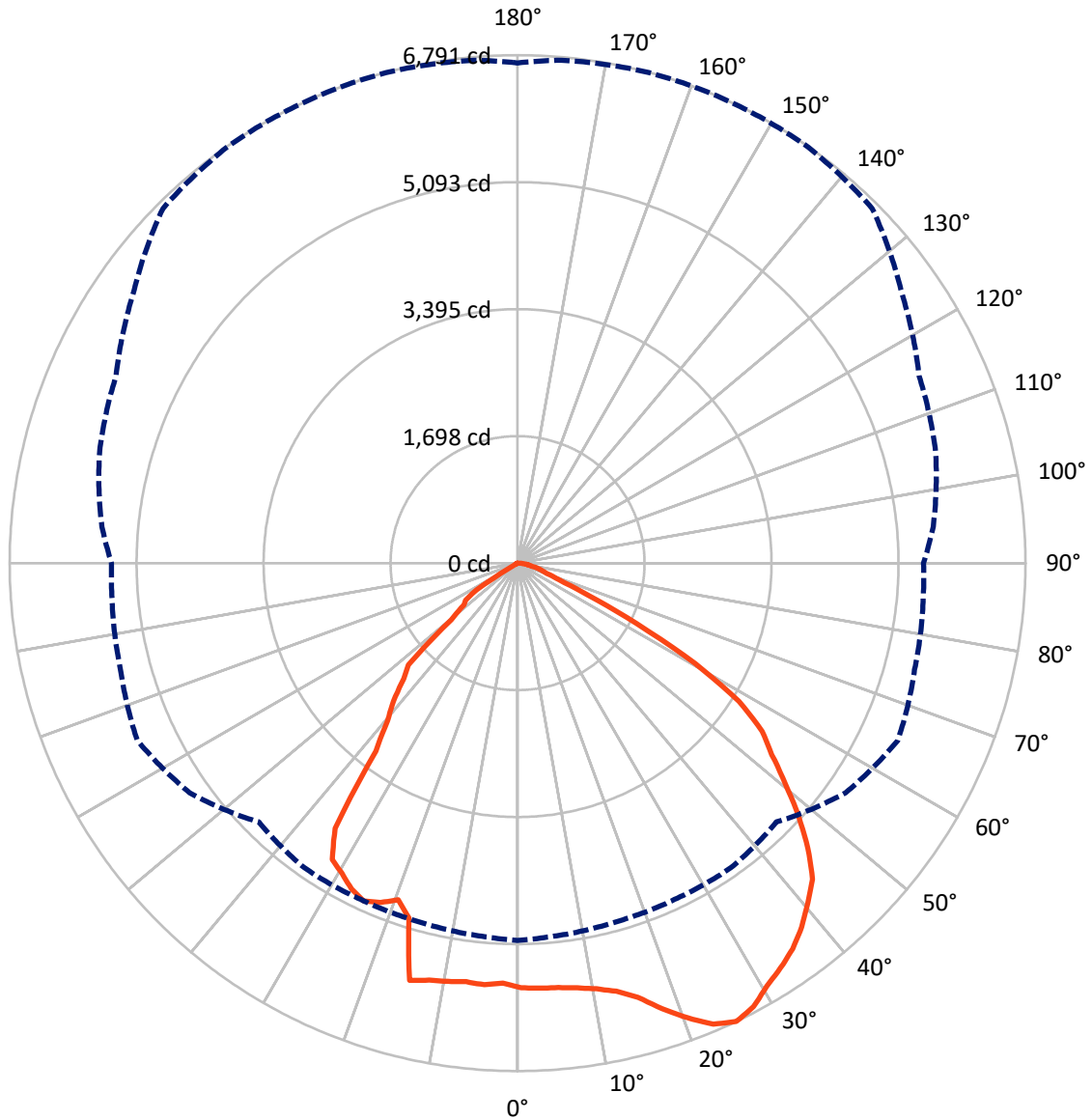
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.2 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	8145.6	0.0	8145.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5011.5	0.0	5011.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	13157.1	0.0	13157.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.6	4.1
10°-20°	1663.0	12.6
20°-30°	2629.2	20.0
30°-40°	2969.9	22.6
40°-50°	2781.3	21.1
50°-60°	1917.5	14.6
60°-70°	515.2	3.9
70°-80°	107.4	0.8
80°-90°	29.0	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°	13157.1	100.0
0°-180°	13157.1	100.0



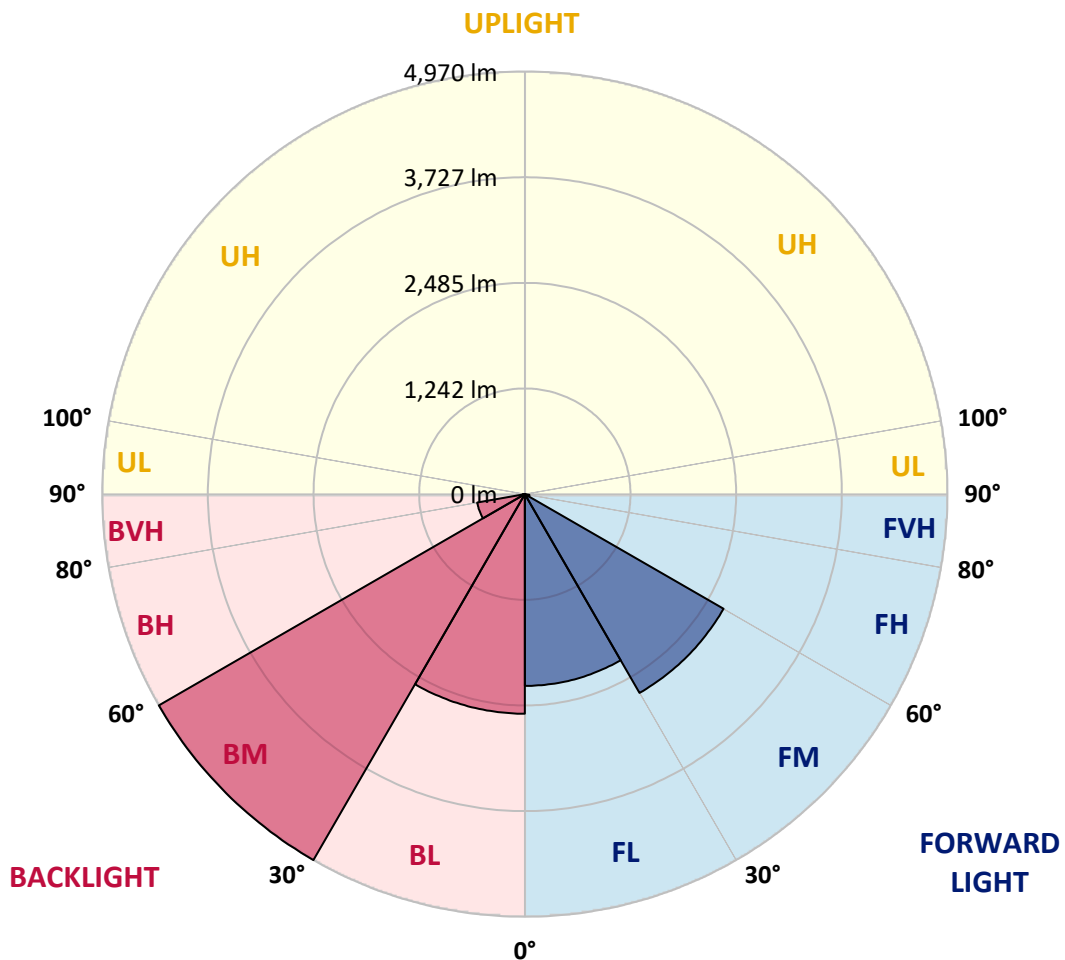
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.7	17.1			
FM (30°-60°)	2698.8	20.5			
FH (60°-80°)	54.1	0.4			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	2582.1	19.6	B4/5000		
BM (30°-60°)	4969.9	37.8	B3/5000		
BH (60°-80°)	568.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1
2.5°	5702.2	5665.5	5630.7	5619.1	5667.4	5719.6	5686.7	5688.7	5677.1	5698.3
5°	5744.7	5694.5	5671.3	5653.9	5661.6	5715.7	5669.3	5686.7	5667.4	5692.5
7.5°	5729.3	5694.5	5671.3	5638.4	5663.5	5727.3	5682.9	5684.8	5675.1	5698.3
10°	5719.6	5694.5	5665.5	5669.3	5698.3	5752.5	5717.7	5737.0	5723.5	5737.0
12.5°	5742.8	5715.7	5700.3	5700.3	5725.4	5787.3	5769.9	5787.3	5781.5	5793.1
15°	5524.3	5549.5	5696.4	5762.1	5812.4	5874.3	5866.6	5884.0	5887.8	5905.2
17.5°	4660.0	4634.9	4623.3	4961.6	5860.8	6052.2	6046.4	6044.5	6025.1	6011.6
20°	4774.1	4764.4	4750.9	4776.0	4876.6	6145.0	6183.7	5945.8	5876.2	5870.4
22.5°	4955.8	4940.4	4890.1	4892.0	4923.0	5342.6	5992.2	5775.7	5752.5	5738.9
25°	5044.8	5013.8	4973.2	4961.6	4971.3	4894.0	5352.2	5609.4	5495.3	5443.1
27.5°	4888.2	4890.1	4857.2	4888.2	4851.4	4503.4	4308.1	5284.5	5280.7	5257.5
30°	4770.2	4764.4	4725.7	4764.4	4511.1	4122.5	4039.3	4928.8	4888.2	4857.2
32.5°	4408.6	4412.5	4524.6	4675.5	4259.7	3952.3	3700.9	4402.8	4787.6	4770.2
35°	3153.7	3161.4	3559.8	4304.2	3878.8	3613.9	3594.6	3805.3	4629.1	4636.8
37.5°	3035.8	3035.8	3026.1	3147.9	3579.1	3476.6	3515.3	3494.0	4240.4	4259.7
40°	2950.7	2933.3	2919.7	2728.3	2488.6	3379.9	3407.0	3310.3	4008.4	4012.2
42.5°	2848.2	2828.9	2832.7	2478.9	2227.5	3140.2	3064.8	2935.2	3621.6	3625.5
45°	2660.6	2693.5	2716.7	2169.5	2150.2	2243.0	2826.9	2745.7	3360.6	3432.2
47.5°	1353.5	1382.5	2121.2	1995.5	2040.0	1993.5	2388.0	2389.9	2796.0	3033.8
50°	1227.8	1220.1	1222.0	1164.0	1883.3	1612.6	1726.7	2190.8	2239.1	2579.4
52.5°	1144.7	1142.8	1024.8	910.7	1183.4	1419.3	1253.0	1585.6	1664.8	2185.0
55°	846.9	908.8	808.2	856.6	740.6	1137.0	1131.2	1430.9	1457.9	1751.8
57.5°	7.7	9.7	23.2	651.6	512.4	568.5	781.2	976.5	1024.8	1365.1
60°	1.9	3.9	9.7	19.3	332.6	350.0	522.1	564.6	636.2	814.0
62.5°	0.0	0.0	3.9	9.7	17.4	143.1	166.3	181.8	280.4	415.7
65°	0.0	0.0	1.9	5.8	9.7	23.2	40.6	85.1	121.8	150.8
67.5°	0.0	0.0	1.9	3.9	7.7	11.6	23.2	32.9	52.2	88.9
70°	0.0	0.0	1.9	3.9	5.8	9.7	15.5	23.2	30.9	44.5
72.5°	0.0	0.0	1.9	3.9	3.9	11.6	11.6	17.4	23.2	29.0
75°	0.0	0.0	1.9	1.9	3.9	7.7	11.6	13.5	15.5	23.2
77.5°	0.0	0.0	1.9	3.9	5.8	7.7	9.7	15.5	13.5	13.5
80°	0.0	0.0	1.9	5.8	5.8	9.7	11.6	15.5	9.7	9.7
82.5°	0.0	0.0	1.9	7.7	5.8	19.3	19.3	21.3	7.7	7.7
85°	0.0	0.0	5.8	3.9	11.6	19.3	17.4	11.6	9.7	5.8
87.5°	0.0	0.0	1.9	1.9	3.9	5.8	13.5	11.6	3.9	3.9
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°
5677.1	0°	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1	5677.1
5642.3	2.5°	5719.6	5694.5	5746.7	5740.9	5715.7	5704.1	5690.6	5679.0	5593.9
5646.1	5°	5721.5	5682.9	5746.7	5735.1	5731.2	5711.9	5700.3	5717.7	5640.3
5661.6	7.5°	5721.5	5682.9	5752.5	5756.3	5750.5	5735.1	5733.1	5744.7	5680.9
5688.7	10°	5760.2	5744.7	5802.8	5808.6	5800.8	5797.0	5787.3	5779.6	5711.9
5781.5	12.5°	5841.4	5810.5	5876.2	5893.6	5887.8	5897.5	5874.3	5885.9	5816.3
5876.2	15°	5940.0	5942.0	5992.2	6030.9	6027.1	6058.0	6023.2	6054.1	6003.9
5984.5	17.5°	6090.9	6112.1	6183.7	6241.7	6263.0	6286.2	6263.0	6272.6	6201.1
5864.6	20°	5932.3	6011.6	6355.8	6462.1	6506.6	6527.9	6489.2	6500.8	6429.2
5717.7	22.5°	5789.2	5891.7	6197.2	6529.8	6667.1	6709.6	6696.1	6694.1	6667.1
5427.6	25°	5578.5	5785.4	5922.6	6274.6	6705.8	6783.1	6790.8	6788.9	6748.3
5249.7	27.5°	5319.4	5365.8	5721.5	5936.2	6435.0	6729.0	6717.4	6661.3	6607.1
4880.4	30°	4988.7	5199.5	5360.0	5702.2	6085.1	6562.7	6562.7	6520.1	6464.0
4748.9	32.5°	4820.5	5093.1	5242.0	5365.8	5692.5	6377.0	6454.4	6409.9	6365.4
4646.5	35°	4731.5	4772.1	5120.2	5232.3	5508.8	6019.3	6332.6	6288.1	6255.2
4373.8	37.5°	4536.2	4631.0	4793.4	5093.1	5178.2	5727.3	6170.1	6146.9	6108.3
4020.0	40°	4101.2	4354.5	4603.9	4888.2	4977.1	5352.2	5972.9	5982.6	5930.4
3642.9	42.5°	3844.0	4016.1	4406.7	4598.1	4837.9	5110.5	5781.5	5797.0	5760.2
3451.5	45°	3542.4	3733.8	4008.4	4356.4	4683.2	4777.9	5443.1	5605.5	5574.6
3070.6	47.5°	3265.9	3420.6	3757.0	4108.9	4470.5	4457.0	5054.4	5360.0	5317.4
2778.6	50°	2873.3	3144.0	3302.6	3625.5	4165.0	4201.7	4640.7	5071.9	5037.0
2360.9	52.5°	2422.8	2763.1	3066.7	3362.5	3855.6	3942.6	4255.9	4777.9	4754.7
1804.1	55°	2117.3	2364.8	2707.1	2944.9	3480.5	3712.5	3967.8	4497.6	4486.0
1483.1	57.5°	1506.3	1983.9	2266.2	2598.8	2881.1	3300.7	3490.2	3927.2	3818.9
821.8	60°	1020.9	1245.2	1589.4	1947.1	2136.6	2556.2	2732.2	3082.2	3053.2
491.1	62.5°	539.5	746.4	991.9	1171.8	1309.1	1717.0	1790.5	2167.6	2157.9
197.2	65°	237.8	315.2	537.5	630.4	771.5	961.0	1024.8	1160.2	1127.3
96.7	67.5°	123.8	187.6	303.6	373.2	469.9	541.4	593.6	636.2	663.2
63.8	70°	75.4	137.3	187.6	259.1	322.9	380.9	421.5	479.5	514.3
32.9	72.5°	56.1	87.0	129.6	199.2	234.0	301.6	342.2	384.8	415.7
27.1	75°	30.9	58.0	104.4	156.6	187.6	245.6	282.3	311.3	321.0
15.5	77.5°	19.3	44.5	87.0	121.8	147.0	199.2	189.5	216.6	239.8
11.6	80°	13.5	32.9	67.7	100.5	102.5	127.6	150.8	174.0	189.5
7.7	82.5°	9.7	27.1	50.3	77.3	67.7	98.6	118.0	135.4	98.6
5.8	85°	7.7	19.3	25.1	46.4	38.7	69.6	59.9	58.0	38.7
3.9	87.5°	5.8	9.7	17.4	21.3	15.5	15.5	19.3	23.2	19.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
5677.1
5535.9
5574.6
5607.5
5655.8
5754.4
5920.7
6139.2
6379.0
6580.1
6686.4
6564.6
6442.8
6328.7
6208.8
6069.6
5918.8
5756.3
5578.5
5348.4
5042.8
4770.2
4499.5
3807.3
3055.1
2159.8
1113.8
663.2
516.3
421.5
315.2
243.6
191.4
71.5
38.7
19.3
0.0

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