

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: P638343

Luminaire Tested: **IFLD-S-SA6B-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638343  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-727-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20574.7 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

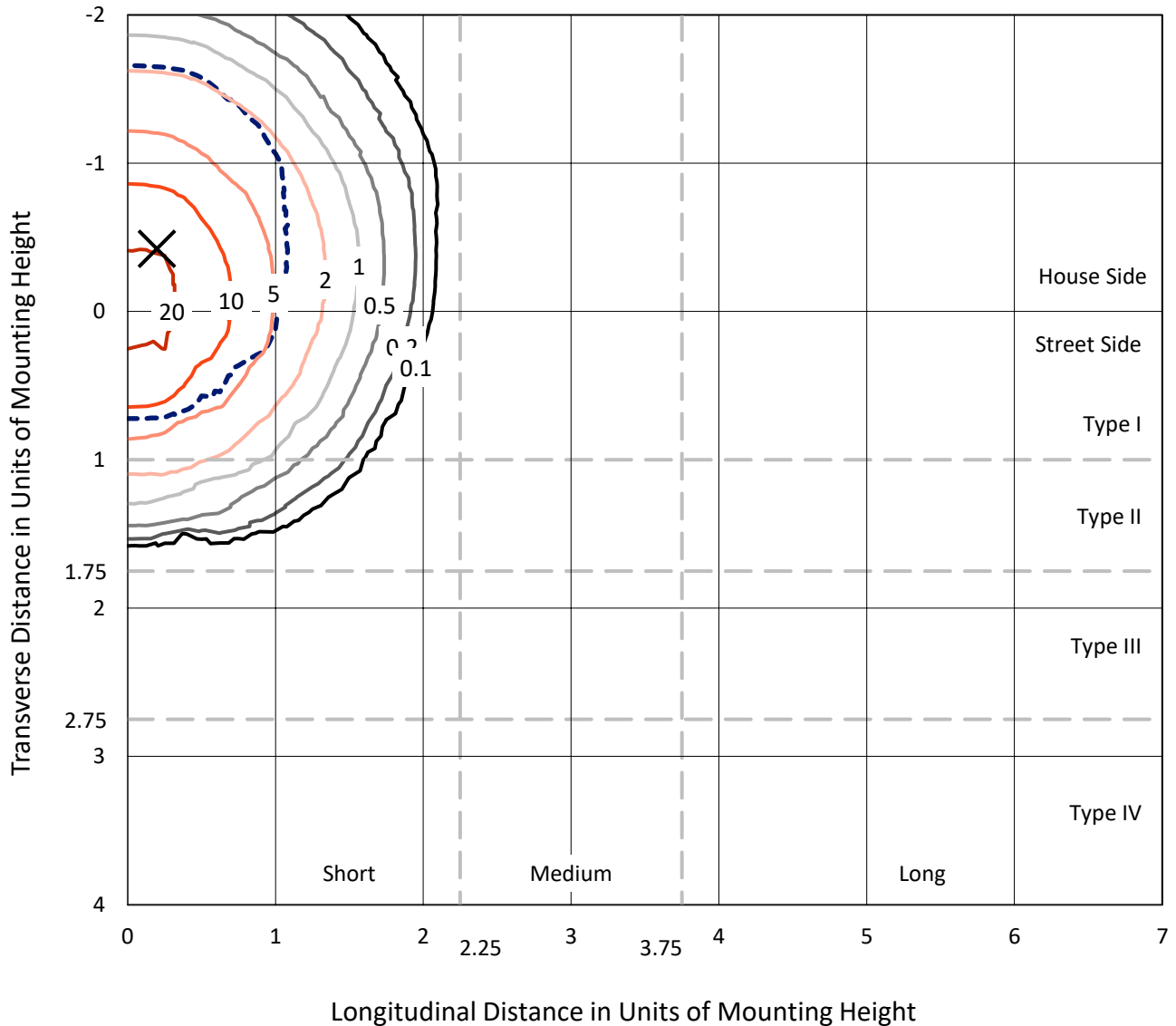
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

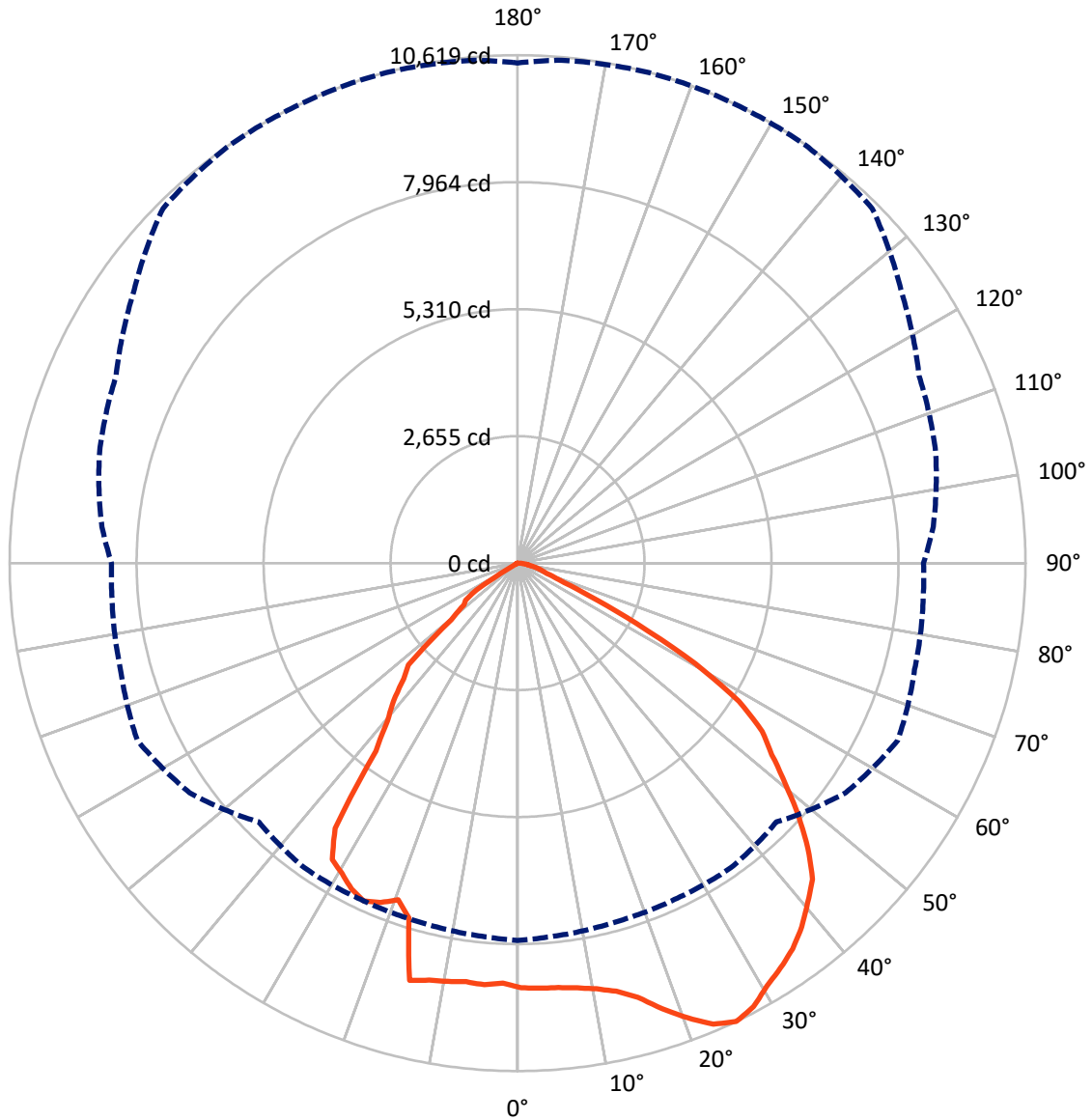
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.2 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	12737.8	0.0	12737.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	7836.8	0.0	7836.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	20574.7	0.0	20574.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	851.7	4.1
10°-20°	2600.6	12.6
20°-30°	4111.4	20.0
30°-40°	4644.2	22.6
40°-50°	4349.4	21.1
50°-60°	2998.6	14.6
60°-70°	805.6	3.9
70°-80°	167.9	0.8
80°-90°	45.4	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°	20574.7	100.0
0°-180°	20574.7	100.0



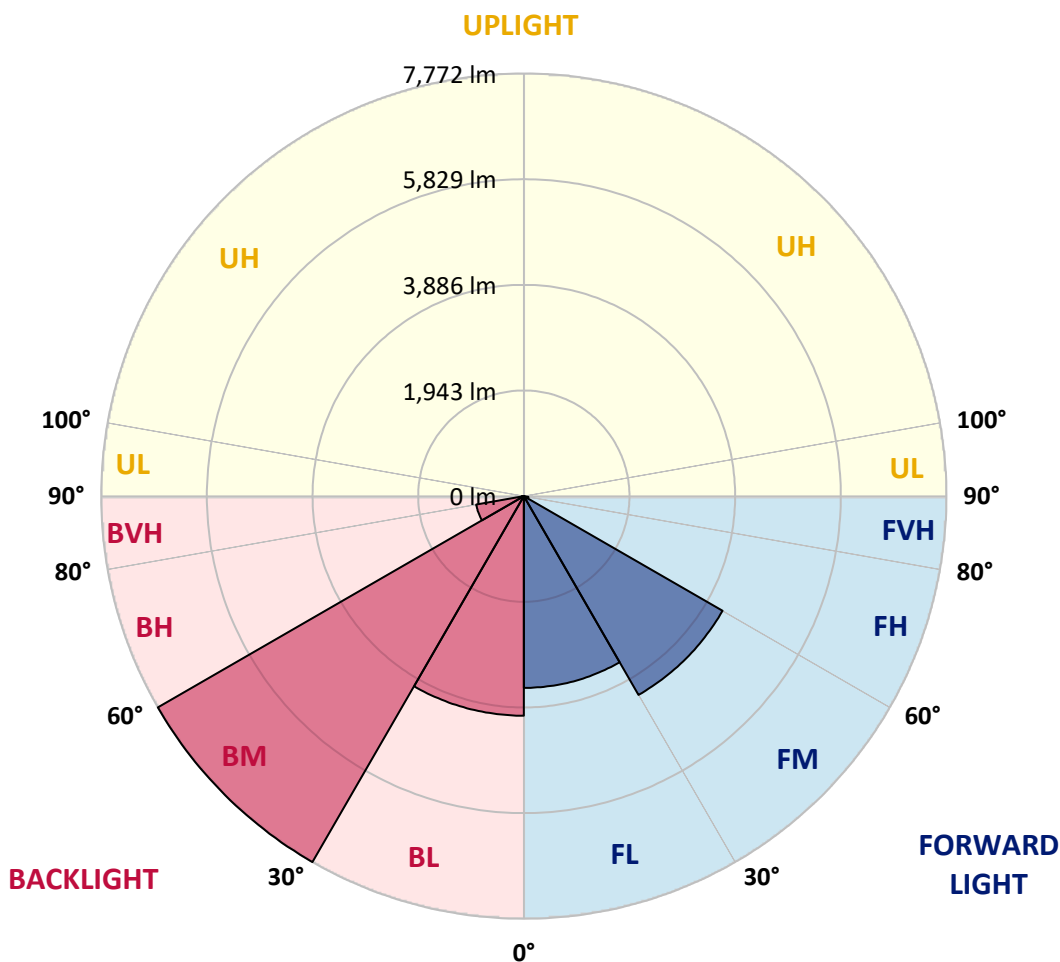
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3525.8	17.1			
FM (30°-60°)	4220.3	20.5			
FH (60°-80°)	84.6	0.4			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	4037.8	19.6	B4/5000		
BM (30°-60°)	7771.8	37.8	B4/8500		
BH (60°-80°)	888.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	39.3	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°	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6
2.5°	8916.9	8859.5	8805.0	8786.9	8862.5	8944.1	8892.7	8895.8	8877.6	8910.9
5°	8983.4	8904.8	8868.5	8841.3	8853.4	8938.1	8865.5	8892.7	8862.5	8901.8
7.5°	8959.3	8904.8	8868.5	8817.1	8856.4	8956.2	8886.7	8889.7	8874.6	8910.9
10°	8944.1	8904.8	8859.5	8865.5	8910.9	8995.5	8941.1	8971.3	8950.2	8971.3
12.5°	8980.4	8938.1	8913.9	8913.9	8953.2	9050.0	9022.7	9050.0	9040.9	9059.0
15°	8638.7	8678.0	8907.8	9010.7	9089.3	9186.0	9173.9	9201.1	9207.2	9234.4
17.5°	7287.1	7247.8	7229.7	7758.8	9164.9	9464.2	9455.1	9452.1	9421.9	9400.7
20°	7465.5	7450.4	7429.3	7468.6	7625.8	9609.3	9669.8	9297.9	9189.1	9180.0
22.5°	7749.8	7725.6	7647.0	7650.0	7698.4	8354.5	9370.5	9031.8	8995.5	8974.4
25°	7888.9	7840.5	7777.0	7758.8	7774.0	7653.0	8369.6	8771.8	8593.4	8511.7
27.5°	7643.9	7647.0	7595.6	7643.9	7586.5	7042.2	6736.8	8263.8	8257.8	8221.5
30°	7459.5	7450.4	7389.9	7450.4	7054.3	6446.5	6316.5	7707.4	7643.9	7595.6
32.5°	6894.1	6900.1	7075.5	7311.3	6661.2	6180.5	5787.4	6885.0	7486.7	7459.5
35°	4931.7	4943.8	5566.6	6730.8	6065.6	5651.3	5621.1	5950.7	7238.8	7250.9
37.5°	4747.2	4747.2	4732.1	4922.6	5596.9	5436.6	5497.1	5463.8	6631.0	6661.2
40°	4614.2	4587.0	4565.8	4266.5	3891.5	5285.4	5327.8	5176.6	6268.1	6274.2
42.5°	4453.9	4423.7	4429.7	3876.4	3483.3	4910.5	4792.6	4590.0	5663.4	5669.5
45°	4160.6	4212.0	4248.3	3392.6	3362.4	3507.5	4420.7	4293.7	5255.2	5367.1
47.5°	2116.6	2162.0	3317.0	3120.5	3190.0	3117.4	3734.3	3737.3	4372.3	4744.2
50°	1920.1	1908.0	1911.0	1820.3	2945.1	2521.8	2700.2	3425.9	3501.5	4033.6
52.5°	1790.0	1787.0	1602.6	1424.2	1850.5	2219.4	1959.4	2479.4	2603.4	3416.8
55°	1324.4	1421.1	1263.9	1339.5	1158.1	1777.9	1768.9	2237.5	2279.9	2739.5
57.5°	12.1	15.1	36.3	1019.0	801.3	889.0	1221.6	1527.0	1602.6	2134.7
60°	3.0	6.0	15.1	30.2	520.1	547.3	816.4	882.9	994.8	1273.0
62.5°	0.0	0.0	6.0	15.1	27.2	223.8	260.0	284.2	438.4	650.1
65°	0.0	0.0	3.0	9.1	15.1	36.3	63.5	133.0	190.5	235.8
67.5°	0.0	0.0	3.0	6.0	12.1	18.1	36.3	51.4	81.6	139.1
70°	0.0	0.0	3.0	6.0	9.1	15.1	24.2	36.3	48.4	69.5
72.5°	0.0	0.0	3.0	6.0	6.0	18.1	18.1	27.2	36.3	45.4
75°	0.0	0.0	3.0	3.0	6.0	12.1	18.1	21.2	24.2	36.3
77.5°	0.0	0.0	3.0	6.0	9.1	12.1	15.1	24.2	21.2	21.2
80°	0.0	0.0	3.0	9.1	9.1	15.1	18.1	24.2	15.1	15.1
82.5°	0.0	0.0	3.0	12.1	9.1	30.2	30.2	33.3	12.1	12.1
85°	0.0	0.0	9.1	6.0	18.1	30.2	27.2	18.1	15.1	9.1
87.5°	0.0	0.0	3.0	3.0	6.0	9.1	21.2	18.1	6.0	6.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8877.6	0°	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6	8877.6
8823.2	2.5°	8944.1	8904.8	8986.5	8977.4	8938.1	8919.9	8898.8	8880.6	8747.6
8829.2	5°	8947.2	8886.7	8986.5	8968.3	8962.3	8932.0	8913.9	8941.1	8820.2
8853.4	7.5°	8947.2	8886.7	8995.5	9001.6	8992.5	8968.3	8965.3	8983.4	8883.7
8895.8	10°	9007.6	8983.4	9074.2	9083.2	9071.1	9065.1	9050.0	9037.9	8932.0
9040.9	12.5°	9134.6	9086.2	9189.1	9216.3	9207.2	9222.3	9186.0	9204.2	9095.3
9189.1	15°	9288.8	9291.9	9370.5	9431.0	9424.9	9473.3	9418.9	9467.2	9388.6
9358.4	17.5°	9524.7	9557.9	9669.8	9760.5	9793.8	9830.1	9793.8	9808.9	9697.0
9170.9	20°	9276.7	9400.7	9938.9	10105.2	10174.8	10208.0	10147.6	10165.7	10053.8
8941.1	22.5°	9053.0	9213.2	9691.0	10211.1	10425.8	10492.3	10471.1	10468.1	10425.8
8487.6	25°	8723.4	9046.9	9261.6	9811.9	10486.2	10607.2	10619.3	10616.2	10552.7
8209.4	27.5°	8318.2	8390.8	8947.2	9282.8	10062.9	10522.5	10504.4	10416.7	10332.0
7631.8	30°	7801.2	8130.8	8381.7	8916.9	9515.6	10262.5	10262.5	10195.9	10108.3
7426.2	32.5°	7538.1	7964.5	8197.3	8390.8	8901.8	9972.2	10093.1	10023.6	9954.1
7266.0	35°	7399.0	7462.5	8006.8	8182.2	8614.5	9412.8	9902.6	9833.1	9781.7
6839.6	37.5°	7093.6	7241.8	7495.8	7964.5	8097.5	8956.2	9648.7	9612.4	9551.9
6286.3	40°	6413.3	6809.4	7199.5	7643.9	7783.0	8369.6	9340.2	9355.4	9273.7
5696.7	42.5°	6011.1	6280.2	6891.0	7190.4	7565.3	7991.7	9040.9	9065.1	9007.6
5397.3	45°	5539.4	5838.8	6268.1	6812.4	7323.4	7471.6	8511.7	8765.7	8717.4
4801.7	47.5°	5107.0	5348.9	5875.1	6425.4	6990.8	6969.7	7904.0	8381.7	8315.2
4345.1	50°	4493.2	4916.6	5164.5	5669.5	6513.1	6570.5	7256.9	7931.2	7876.8
3691.9	52.5°	3788.7	4320.9	4795.6	5258.2	6029.3	6165.3	6655.2	7471.6	7435.3
2821.1	55°	3311.0	3698.0	4233.2	4605.1	5442.7	5805.5	6204.7	7033.1	7015.0
2319.2	57.5°	2355.5	3102.3	3543.8	4063.9	4505.3	5161.5	5457.8	6141.2	5971.8
1285.1	60°	1596.5	1947.3	2485.5	3044.9	3341.2	3997.3	4272.5	4819.8	4774.4
768.0	62.5°	843.6	1167.2	1551.2	1832.4	2047.1	2685.1	2800.0	3389.6	3374.5
308.4	65°	371.9	492.9	840.6	985.7	1206.5	1502.8	1602.6	1814.2	1762.8
151.2	67.5°	193.5	293.3	474.7	583.6	734.8	846.6	928.3	994.8	1037.1
99.8	70°	117.9	214.7	293.3	405.2	505.0	595.7	659.2	749.9	804.3
51.4	72.5°	87.7	136.1	202.6	311.4	365.9	471.7	535.2	601.7	650.1
42.3	75°	48.4	90.7	163.3	244.9	293.3	384.0	441.5	486.8	501.9
24.2	77.5°	30.2	69.5	136.1	190.5	229.8	311.4	296.3	338.7	374.9
18.1	80°	21.2	51.4	105.8	157.2	160.3	199.6	235.8	272.1	296.3
12.1	82.5°	15.1	42.3	78.6	120.9	105.8	154.2	184.4	211.7	154.2
9.1	85°	12.1	30.2	39.3	72.6	60.5	108.9	93.7	90.7	60.5
6.0	87.5°	9.1	15.1	27.2	33.3	24.2	24.2	30.2	36.3	30.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
8877.6  
8656.9  
8717.4  
8768.8  
8844.4  
8998.6  
9258.6  
9600.3  
9975.2  
10289.7  
*10456.0*  
10265.5  
10075.0  
9896.6  
9709.1  
9491.4  
9255.6  
9001.6  
8723.4  
8363.6  
7885.8  
7459.5  
7036.2  
5953.7  
4777.5  
3377.5  
1741.7  
1037.1  
807.3  
659.2  
492.9  
381.0  
299.3  
111.9  
60.5  
30.2  
0.0

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