

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: P638277

Luminaire Tested: **IFLD-S-SA2D-830-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638277  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9558.8 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

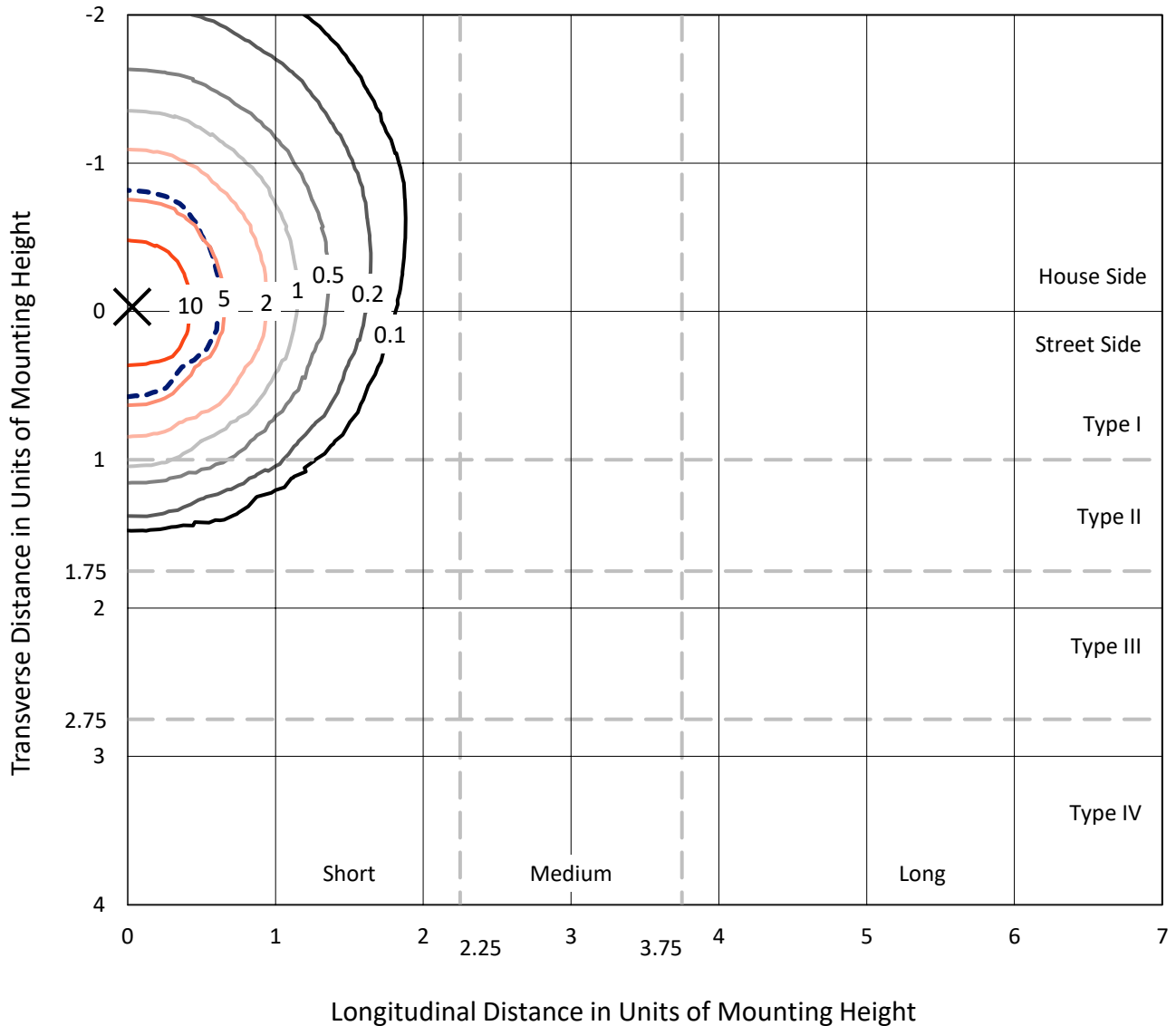
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

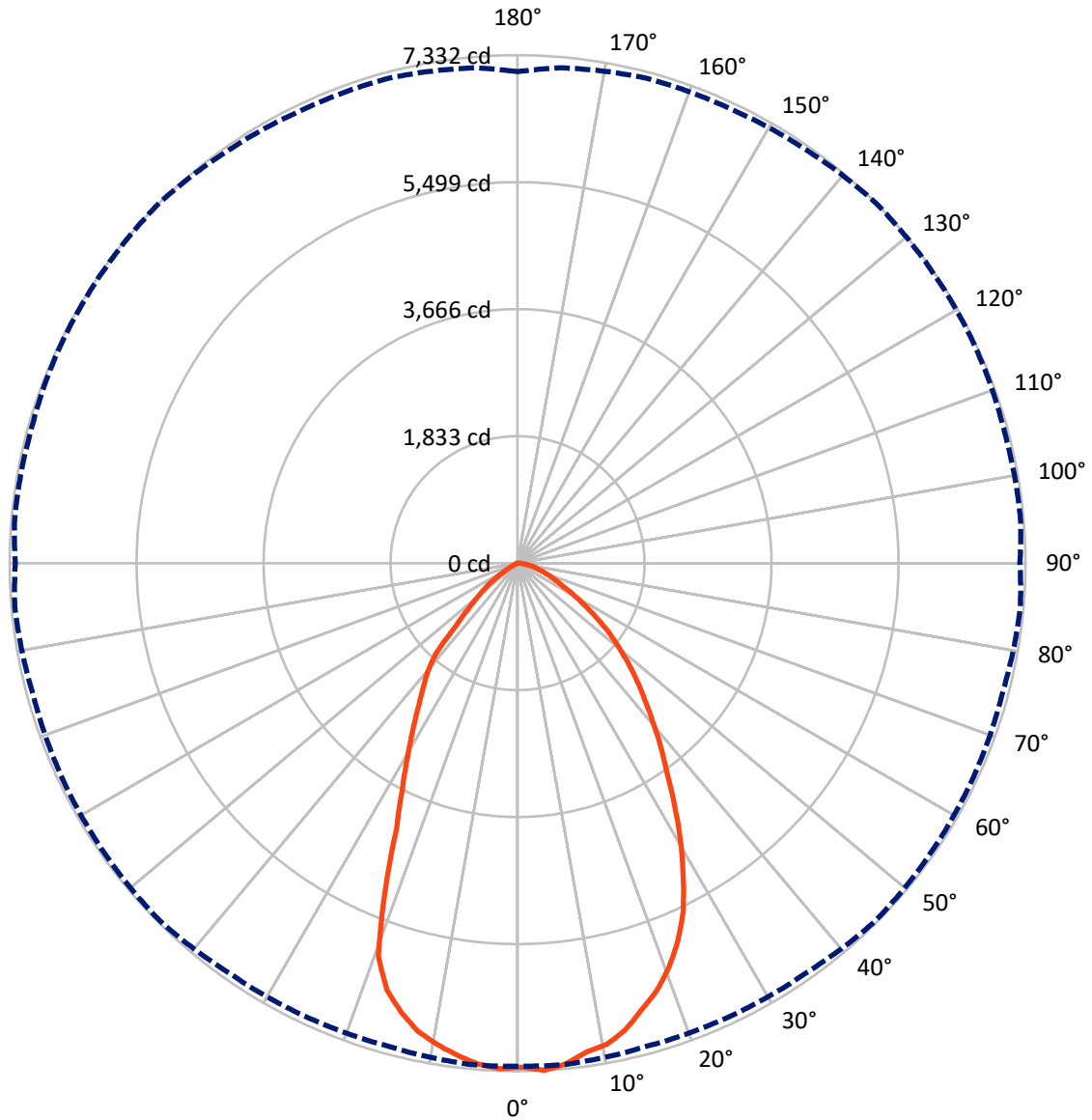
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5661.2	0.0	5661.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3897.6	0.0	3897.6
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	9558.8	0.0	9558.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.2	7.1
10°-20°	1829.4	19.1
20°-30°	2231.0	23.3
30°-40°	2036.9	21.3
40°-50°	1472.0	15.4
50°-60°	803.7	8.4
60°-70°	332.3	3.5
70°-80°	134.6	1.4
80°-90°	36.6	0.4
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°	9558.8	100.0
0°-180°	9558.8	100.0



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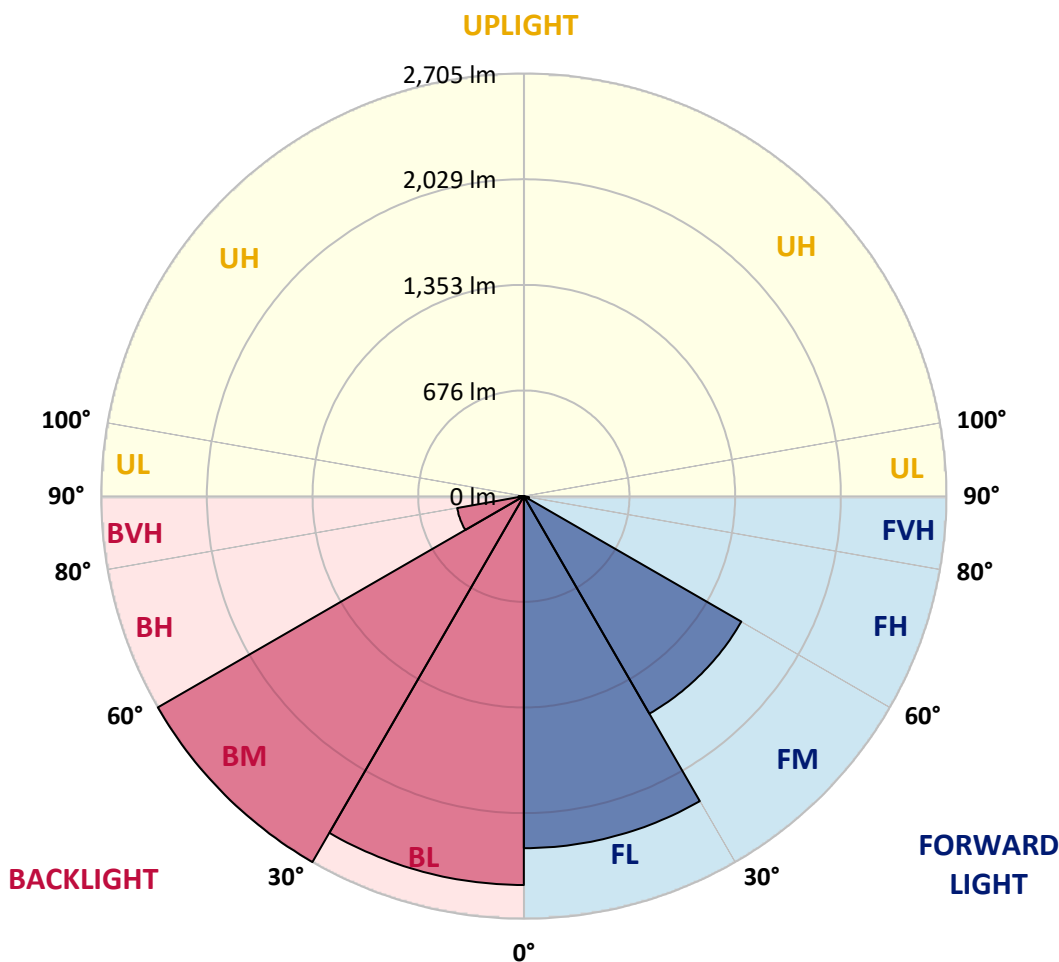
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.4	23.6			
FM (30°-60°)	1607.6	16.8			
FH (60°-80°)	33.7	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	2489.2	26.0	B3/2500		
BM (30°-60°)	2705.1	28.3	B3/5000		
BH (60°-80°)	433.2	4.5	B1/500		G1/500
BVH (80°-90°)	33.7	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-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2
2.5°	7260.7	7270.2	7219.0	7224.4	7233.8	7302.5	7285.0	7268.8	7245.9	7285.0
5°	7251.3	7256.7	7202.9	7184.0	7192.1	7254.0	7197.5	7197.5	7192.1	7185.4
7.5°	7178.6	7181.3	7139.6	7105.9	7127.5	7155.7	7114.0	7134.2	7104.6	7127.5
10°	7069.6	7052.1	7002.3	6992.9	7017.1	7044.0	7015.8	7034.6	7007.7	7025.2
12.5°	6909.4	6882.5	6842.1	6830.0	6871.7	6908.1	6885.2	6874.4	6839.4	6882.5
15°	6291.6	6271.4	6362.9	6523.1	6667.1	6698.1	6673.9	6684.6	6611.9	6624.0
17.5°	5178.4	5140.7	5238.9	5618.5	6159.7	6445.0	6423.5	6353.5	6245.8	6270.0
20°	4705.9	4695.1	4684.3	4774.5	5152.8	6018.3	6047.9	5870.2	5716.8	5683.1
22.5°	4439.4	4435.3	4424.6	4444.7	4544.4	5100.3	5439.5	5275.3	5173.0	5163.6
25°	4195.7	4189.0	4156.7	4182.3	4182.3	4214.6	4649.4	4749.0	4658.8	4648.0
27.5°	3948.0	3935.9	3930.5	3942.7	3880.7	3662.7	3773.1	4259.0	4211.9	4214.6
30°	3680.2	3676.1	3661.3	3686.9	3495.8	3225.2	3155.2	3814.8	3824.2	3821.5
32.5°	3281.7	3299.2	3366.5	3394.8	3079.8	2856.4	2739.3	3300.6	3493.1	3489.0
35°	2383.9	2383.9	2603.3	3011.2	2698.9	2530.6	2467.4	2798.5	3166.0	3179.4
37.5°	1959.9	1966.6	2009.7	2195.5	2328.7	2269.5	2250.6	2355.6	2746.0	2767.5
40°	1763.4	1763.4	1763.4	1686.6	1682.6	2044.7	2033.9	2000.3	2371.8	2418.9
42.5°	1584.3	1588.4	1591.1	1397.2	1289.5	1767.4	1743.2	1692.0	2036.6	2091.8
45°	1399.9	1406.7	1414.7	1168.4	1121.3	1272.0	1475.3	1418.8	1705.5	1776.8
47.5°	854.8	865.5	1048.6	990.7	996.1	981.3	1203.4	1194.0	1398.6	1499.5
50°	577.5	581.5	599.0	628.6	854.8	771.3	852.1	988.0	1062.1	1215.5
52.5°	484.6	491.3	448.2	407.9	561.3	603.0	595.0	733.6	763.2	953.0
55°	340.6	362.1	341.9	337.9	319.0	468.4	450.9	564.0	582.9	724.2
57.5°	35.0	40.4	70.0	251.7	208.6	265.2	321.7	413.2	432.1	534.4
60°	2.7	2.7	6.7	35.0	152.1	158.8	222.1	254.4	290.8	372.9
62.5°	0.0	1.3	2.7	5.4	24.2	84.8	111.7	133.3	175.0	240.9
65°	0.0	0.0	1.3	4.0	5.4	32.3	43.1	70.0	95.6	149.4
67.5°	0.0	0.0	1.3	2.7	4.0	8.1	14.8	25.6	51.2	84.8
70°	0.0	0.0	1.3	2.7	4.0	6.7	10.8	16.2	22.9	45.8
72.5°	0.0	0.0	1.3	1.3	2.7	6.7	8.1	10.8	16.2	22.9
75°	0.0	0.0	1.3	1.3	4.0	8.1	6.7	8.1	10.8	14.8
77.5°	0.0	0.0	1.3	2.7	4.0	8.1	6.7	8.1	8.1	9.4
80°	0.0	0.0	1.3	2.7	5.4	9.4	8.1	8.1	6.7	6.7
82.5°	0.0	0.0	1.3	4.0	5.4	12.1	12.1	10.8	5.4	4.0
85°	0.0	0.0	2.7	5.4	8.1	13.5	13.5	10.8	4.0	2.7
87.5°	0.0	0.0	2.7	4.0	6.7	9.4	13.5	10.8	4.0	1.3
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°
7274.2	0°	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2	7274.2
7251.3	2.5°	7287.7	7279.6	7306.5	7317.3	7332.1	7275.5	7240.6	7241.9	7177.3
7169.2	5°	7212.3	7213.6	7248.6	7245.9	7260.7	7229.8	7216.3	7193.4	7136.9
7065.6	7.5°	7116.7	7104.6	7138.2	7163.8	7126.1	7147.7	7116.7	7127.5	7093.8
6974.0	10°	7042.7	7014.4	7045.4	7062.9	7064.2	7042.7	7013.1	6984.8	6972.7
6831.3	12.5°	6878.5	6842.1	6894.6	6918.8	6914.8	6873.1	6839.4	6846.1	6807.1
6581.0	15°	6652.3	6653.7	6691.4	6714.2	6692.7	6683.3	6686.0	6669.8	6636.2
6235.0	17.5°	6306.4	6326.6	6426.2	6481.4	6493.5	6474.6	6465.2	6446.4	6412.7
5683.1	20°	5730.3	5851.4	6029.1	6200.0	6233.7	6228.3	6194.6	6186.6	6167.7
5136.6	22.5°	5224.1	5314.3	5520.3	5786.8	5924.1	5937.5	5897.2	5885.1	5864.9
4648.0	25°	4700.5	4797.4	4983.2	5272.6	5556.6	5614.5	5607.8	5571.4	5549.9
4214.6	27.5°	4259.0	4355.9	4524.2	4785.3	5089.5	5275.3	5292.8	5234.9	5233.5
3828.2	30°	3860.6	3993.8	4121.7	4334.4	4629.2	4907.8	4937.4	4897.0	4901.1
3474.2	32.5°	3548.3	3658.6	3767.7	3910.4	4155.3	4479.7	4595.5	4557.8	4543.0
3179.4	35°	3229.2	3304.6	3416.3	3546.9	3713.8	4035.5	4236.1	4207.8	4193.0
2781.0	37.5°	2865.8	2995.0	3075.8	3222.5	3353.1	3608.8	3891.5	3887.5	3856.5
2441.8	40°	2492.9	2628.9	2751.4	2899.5	3000.4	3203.7	3517.3	3516.0	3520.0
2090.5	42.5°	2155.1	2280.3	2428.3	2589.9	2686.8	2834.8	3171.4	3190.2	3213.1
1801.1	45°	1849.5	1962.6	2099.9	2296.4	2413.5	2498.3	2797.1	2883.3	2882.0
1542.6	47.5°	1574.9	1681.3	1797.0	1988.2	2137.6	2214.3	2462.0	2584.5	2576.4
1265.3	50°	1321.8	1416.1	1537.2	1675.9	1876.4	1943.7	2128.1	2289.7	2277.6
1008.2	52.5°	1063.4	1194.0	1296.3	1422.8	1634.1	1700.1	1842.8	2000.3	1990.8
756.5	55°	829.2	955.7	1079.6	1188.6	1366.3	1464.5	1566.8	1728.4	1725.7
592.3	57.5°	627.3	765.9	883.0	986.7	1128.0	1249.2	1331.3	1478.0	1496.8
405.2	60°	464.4	570.7	697.3	813.0	924.8	1049.9	1105.1	1249.2	1257.2
277.3	62.5°	316.3	433.4	557.3	662.3	745.7	875.0	924.8	1043.2	1058.0
177.7	65°	219.4	294.8	436.1	511.5	613.8	724.2	774.0	868.2	897.8
102.3	67.5°	145.4	210.0	340.6	409.2	510.2	585.5	648.8	725.5	757.8
64.6	70°	79.4	154.8	243.6	323.1	410.6	483.2	545.2	607.1	635.3
29.6	72.5°	53.8	103.6	169.6	255.8	331.1	402.5	457.7	503.4	504.8
17.5	75°	26.9	70.0	129.2	197.9	258.4	328.4	378.2	405.2	372.9
10.8	77.5°	16.2	51.2	105.0	158.8	210.0	265.2	293.4	308.3	255.8
8.1	80°	9.4	36.3	82.1	126.5	145.4	195.2	222.1	226.1	171.0
5.4	82.5°	6.7	26.9	64.6	92.9	88.8	137.3	166.9	161.5	109.0
4.0	85°	4.0	18.8	40.4	57.9	53.8	90.2	96.9	99.6	63.3
2.7	87.5°	2.7	10.8	21.5	31.0	25.6	39.0	39.0	47.1	31.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7274.2  
7093.8  
7123.4  
7037.3  
6918.8  
6773.5  
6602.5  
6397.9  
6124.7  
5859.5  
5527.0  
5230.9  
4880.9  
4544.4  
4172.8  
3882.1  
3520.0  
3201.0  
2884.6  
2579.1  
2288.3  
2011.0  
1732.4  
1488.8  
1269.4  
1060.7  
891.1  
753.8  
624.6  
492.7  
348.6  
246.3  
160.2  
101.0  
57.9  
26.9  
0.0

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