

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: P637852

Luminaire Tested: **IFLD-S-SA6D-730-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637852  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-730-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35106.5 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

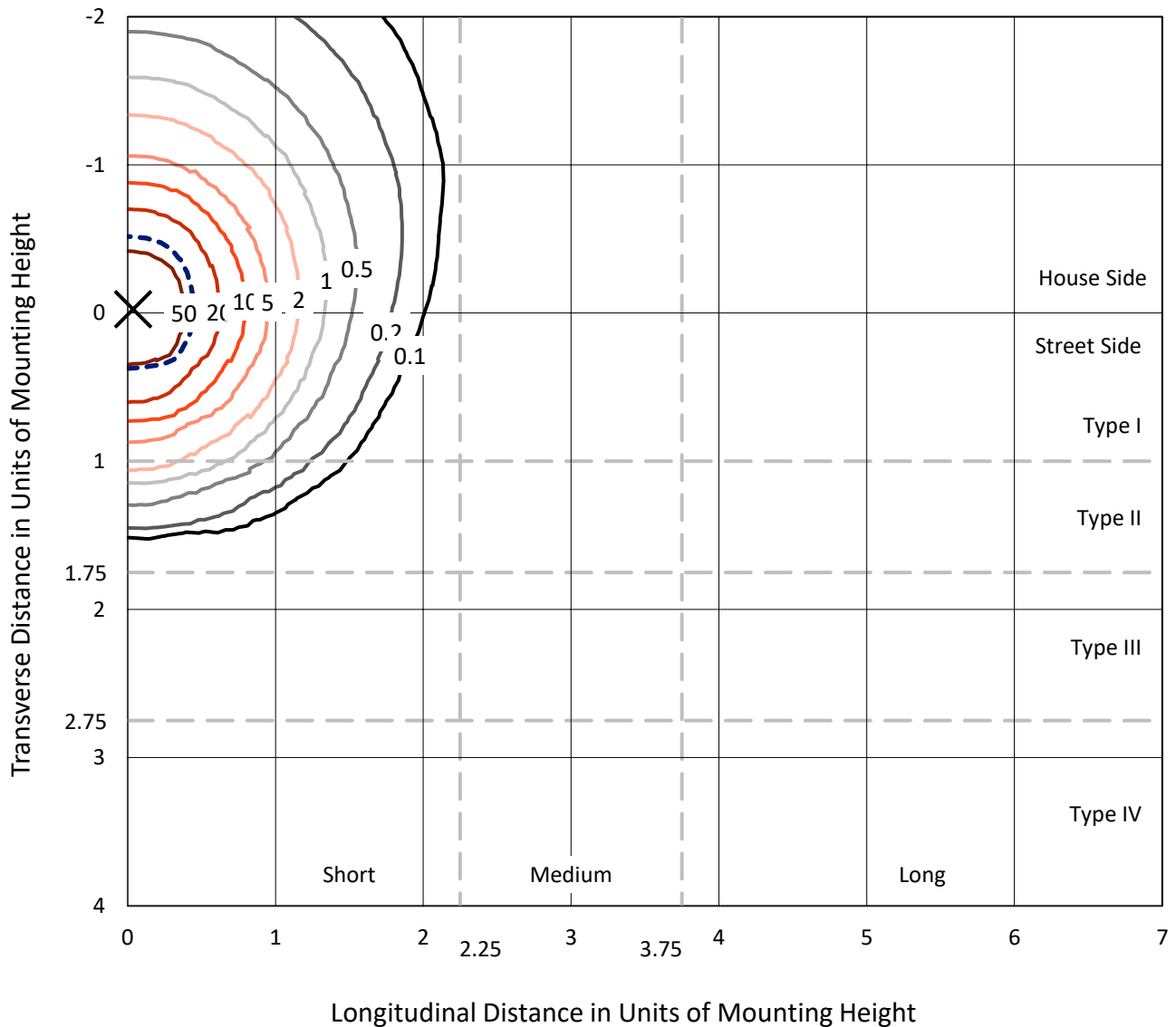
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

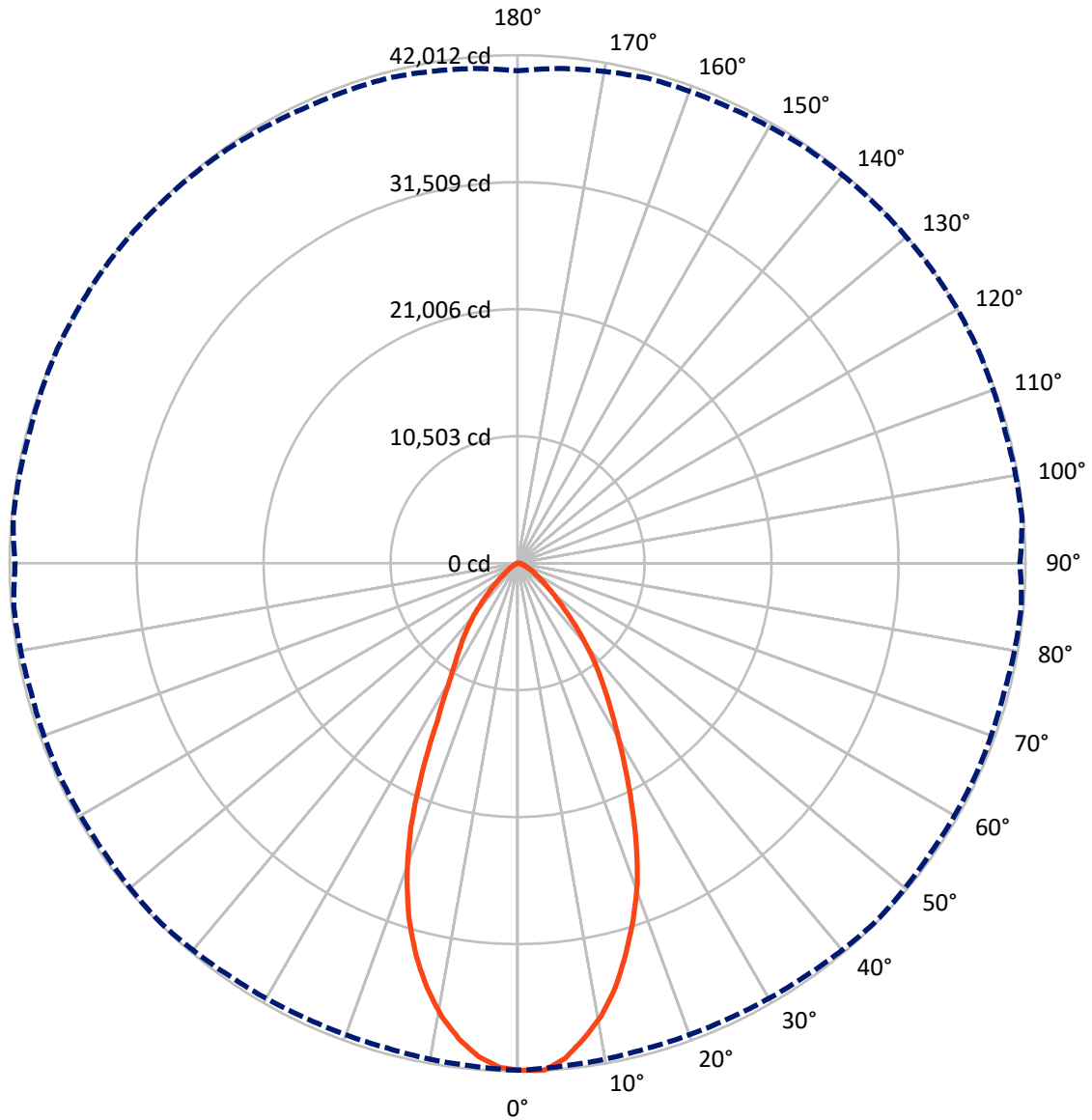
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 104.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19920.8	0.0	19920.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	15185.7	0.0	15185.7
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	35106.5	0.0	35106.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3808.7	10.8
10°-20°	9079.0	25.9
20°-30°	9246.8	26.3
30°-40°	6895.3	19.6
40°-50°	3602.3	10.3
50°-60°	1515.1	4.3
60°-70°	618.8	1.8
70°-80°	260.4	0.7
80°-90°	80.2	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°	35106.5	100.0
0°-180°	35106.5	100.0



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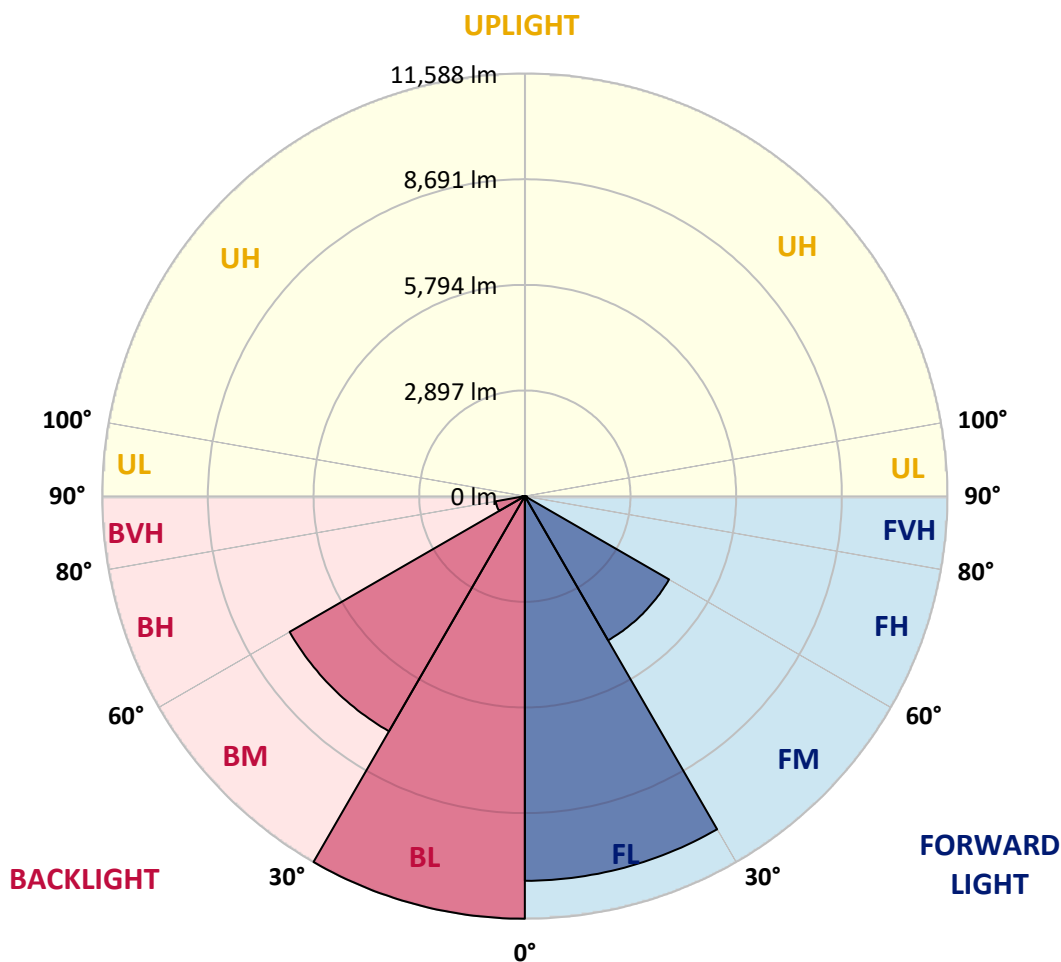
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10546.4	30.0			
FM (30°-60°)	4565.7	13.0			
FH (60°-80°)	66.0	0.2			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	11588.0	33.0	B5		
BM (30°-60°)	7447.0	21.2	B4/8500		
BH (60°-80°)	813.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	72.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8
2.5°	41948.3	41777.0	41533.5	41510.9	41637.2	41912.3	41736.4	41745.4	41637.2	41822.1
5°	41289.9	41127.6	40960.7	40739.8	40924.7	41041.9	40951.7	40852.5	40712.7	40893.1
7.5°	40045.3	39955.1	39707.1	39607.9	39720.6	39851.4	39657.5	39630.4	39436.5	39671.0
10°	38142.2	38106.2	37862.6	37804.0	37903.2	38101.7	38016.0	37997.9	37876.2	37853.6
12.5°	36167.0	36027.2	35725.1	35707.1	35855.9	36153.5	35923.5	35702.5	35770.2	35828.8
15°	31080.2	30931.4	31680.0	32857.0	33474.8	33452.3	33519.9	33253.8	33172.7	33199.7
17.5°	24708.1	24455.6	24726.2	26548.0	29483.8	31188.4	30719.4	30146.7	29840.1	29637.1
20°	21325.9	21339.5	21289.8	21758.8	23589.7	27477.0	27364.3	26259.4	25858.1	25691.2
22.5°	19269.5	19192.9	19084.6	19233.5	19725.0	22006.9	23535.6	22521.0	22381.2	22196.3
25°	17253.7	17253.7	17123.0	17271.8	17411.6	17443.2	18976.4	19391.3	19120.7	19120.7
27.5°	15508.5	15418.3	15359.7	15427.4	15242.5	14354.1	14548.0	16672.0	16487.1	16374.4
30°	13776.8	13749.8	13650.6	13740.8	13055.3	12054.2	11648.3	14070.0	14263.9	14223.3
32.5°	11373.2	11481.5	11923.4	12063.2	10890.7	10083.5	9695.7	11679.9	12455.5	12424.0
35°	7729.5	7819.7	8324.7	9993.3	9028.2	8451.0	8338.3	9289.8	10566.0	10687.8
37.5°	6155.6	6142.1	6286.4	6584.0	7256.0	7116.2	7084.6	7332.6	8617.9	8672.0
40°	5073.3	5055.3	5050.8	4807.2	4640.4	5916.6	5830.9	5682.1	6796.0	6904.2
42.5°	4090.2	4108.3	4121.8	3589.6	3346.1	4563.7	4514.1	4360.8	5330.4	5456.6
45°	3210.8	3206.3	3233.4	2674.2	2606.6	2917.7	3373.2	3251.4	4022.6	4157.9
47.5°	1664.0	1722.7	2087.9	2069.9	2101.5	2069.9	2552.4	2520.9	3025.9	3242.4
50°	1118.4	1136.4	1168.0	1172.5	1655.0	1524.2	1731.7	1961.7	2119.5	2453.2
52.5°	865.8	879.4	798.2	748.6	1014.7	1127.4	1136.4	1357.4	1479.2	1817.4
55°	482.5	541.2	581.7	586.2	559.2	834.3	829.8	1005.6	1100.3	1325.8
57.5°	63.1	76.7	117.2	378.8	374.3	464.5	581.7	730.6	784.7	969.6
60°	4.5	9.0	13.5	58.6	248.0	270.6	396.8	455.5	545.7	681.0
62.5°	0.0	0.0	4.5	13.5	49.6	157.8	207.4	239.0	320.2	446.5
65°	0.0	0.0	4.5	9.0	18.0	58.6	81.2	130.8	189.4	275.1
67.5°	0.0	0.0	4.5	9.0	13.5	22.5	36.1	58.6	99.2	166.9
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.1	36.1	54.1	90.2
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	22.5	27.1	36.1	49.6
75°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	22.5	27.1	31.6
77.5°	0.0	0.0	4.5	9.0	13.5	22.5	18.0	22.5	22.5	22.5
80°	0.0	0.0	4.5	9.0	13.5	22.5	27.1	22.5	18.0	18.0
82.5°	0.0	0.0	4.5	13.5	13.5	31.6	31.6	31.6	13.5	13.5
85°	0.0	0.0	9.0	13.5	22.5	36.1	36.1	27.1	13.5	9.0
87.5°	0.0	0.0	4.5	9.0	9.0	18.0	27.1	22.5	9.0	4.5
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
41943.8	0°	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8	41943.8
41551.5	2.5°	41885.2	41772.5	41984.4	42011.5	41921.3	41808.5	41547.0	41524.4	41069.0
40631.5	5°	41091.5	40906.6	41041.9	41132.1	41100.5	40978.8	40870.6	40771.3	40361.0
39138.9	7.5°	39612.4	39544.7	39607.9	39675.5	39806.3	39675.5	39630.4	39526.7	39120.8
37668.7	10°	37970.9	37844.6	38083.6	38052.0	38016.0	37979.9	37790.5	37808.5	37330.5
35666.5	12.5°	35955.1	35743.1	35973.1	36000.2	35973.1	35846.9	35634.9	35725.1	35287.7
32960.7	15°	33244.8	33222.3	33389.1	33497.3	33574.0	33438.7	33366.6	33411.7	33150.1
29479.3	17.5°	29916.7	30209.8	30755.5	30940.4	30944.9	31084.7	31044.1	30990.0	30796.1
25623.6	20°	26002.4	26566.1	27404.9	28266.2	28514.2	28397.0	28342.9	28442.1	28153.5
22002.4	22.5°	22390.2	22872.7	23846.8	25105.0	25831.0	25903.2	25889.6	25804.0	25691.2
19102.7	25°	19323.7	19752.1	20685.6	21835.5	23229.0	23436.4	23445.4	23418.4	23319.2
16473.6	27.5°	16735.1	17253.7	17767.8	18796.0	20279.7	21136.5	21028.3	20996.7	20960.6
14254.9	30°	14390.2	15044.0	15526.6	16166.9	17497.3	18656.2	18769.0	18714.9	18629.2
12419.5	32.5°	12532.2	12920.0	13533.3	13966.2	14922.3	16234.6	16667.5	16626.9	16550.3
10764.4	35°	10917.8	11071.1	11553.6	12036.1	12672.0	13943.7	14584.1	14493.9	14480.3
8771.2	37.5°	8992.2	9506.2	9772.3	10259.4	10705.8	11693.4	12577.3	12536.7	12541.2
7053.0	40°	7260.5	7558.1	8085.7	8496.1	8906.5	9628.0	10611.1	10638.2	10629.1
5461.1	42.5°	5573.9	5862.5	6417.2	6863.6	7228.9	7675.3	8613.3	8644.9	8685.5
4252.6	45°	4351.8	4536.7	4942.5	5407.0	5794.8	6065.4	6777.9	6980.9	6985.4
3296.5	47.5°	3377.7	3589.6	3878.3	4324.7	4703.5	4897.4	5416.0	5691.1	5677.6
2529.9	50°	2651.6	2845.6	3080.1	3431.8	3842.2	3995.5	4378.8	4649.4	4635.9
1907.6	52.5°	2029.3	2277.4	2484.8	2755.4	3156.7	3287.5	3562.6	3873.8	3828.7
1398.0	55°	1537.8	1790.3	1984.2	2209.7	2575.0	2741.8	2931.2	3179.3	3188.3
1082.3	57.5°	1159.0	1420.5	1596.4	1826.4	2101.5	2286.4	2430.7	2696.7	2692.2
739.6	60°	829.8	1055.2	1267.2	1506.2	1718.2	1930.1	2029.3	2281.9	2290.9
523.1	62.5°	599.8	811.7	1014.7	1222.1	1411.5	1618.9	1709.1	1907.6	1934.6
342.7	65°	419.4	568.2	802.7	960.5	1172.5	1325.8	1443.1	1614.4	1646.0
202.9	67.5°	270.6	410.4	635.9	775.7	969.6	1100.3	1222.1	1357.4	1398.0
130.8	70°	162.3	311.2	473.5	622.3	798.2	915.4	1032.7	1149.9	1172.5
63.1	72.5°	103.7	216.5	342.7	505.1	640.4	766.6	870.4	956.0	888.4
40.6	75°	58.6	148.8	270.6	396.8	518.6	640.4	726.0	771.1	617.8
27.1	77.5°	36.1	108.2	221.0	320.2	401.4	514.1	568.2	595.3	441.9
18.0	80°	22.5	81.2	184.9	261.6	261.6	378.8	441.9	464.5	320.2
13.5	82.5°	18.0	58.6	144.3	198.4	175.9	284.1	347.2	351.7	225.5
9.0	85°	13.5	45.1	90.2	130.8	121.8	198.4	202.9	225.5	148.8
9.0	87.5°	9.0	27.1	54.1	76.7	67.6	94.7	108.2	121.8	81.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
41943.8  
40712.7  
40031.8  
39035.1  
37168.2  
35161.4  
32834.4  
30507.5  
27946.0  
25474.8  
22985.5  
20748.7  
18520.9  
16347.3  
14331.5  
12396.9  
10471.3  
8550.2  
6868.1  
5628.0  
4635.9  
3833.2  
3188.3  
2683.2  
2268.3  
1925.6  
1637.0  
1393.5  
1154.5  
825.3  
586.2  
414.9  
297.6  
207.4  
135.3  
72.2  
0.0

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