

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: P638005

Luminaire Tested: **IFLD-L-SA7B-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638005  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22074 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

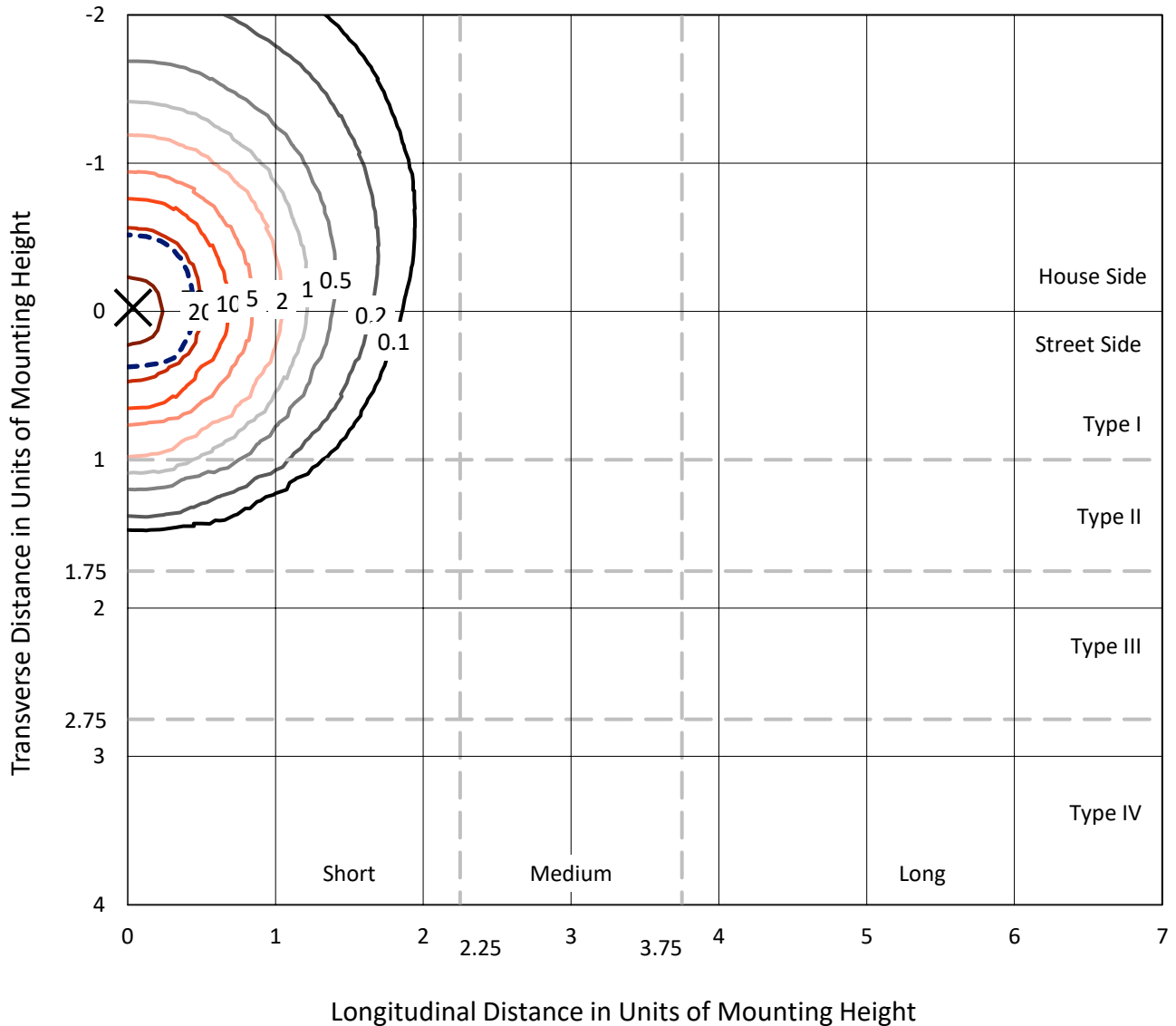
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

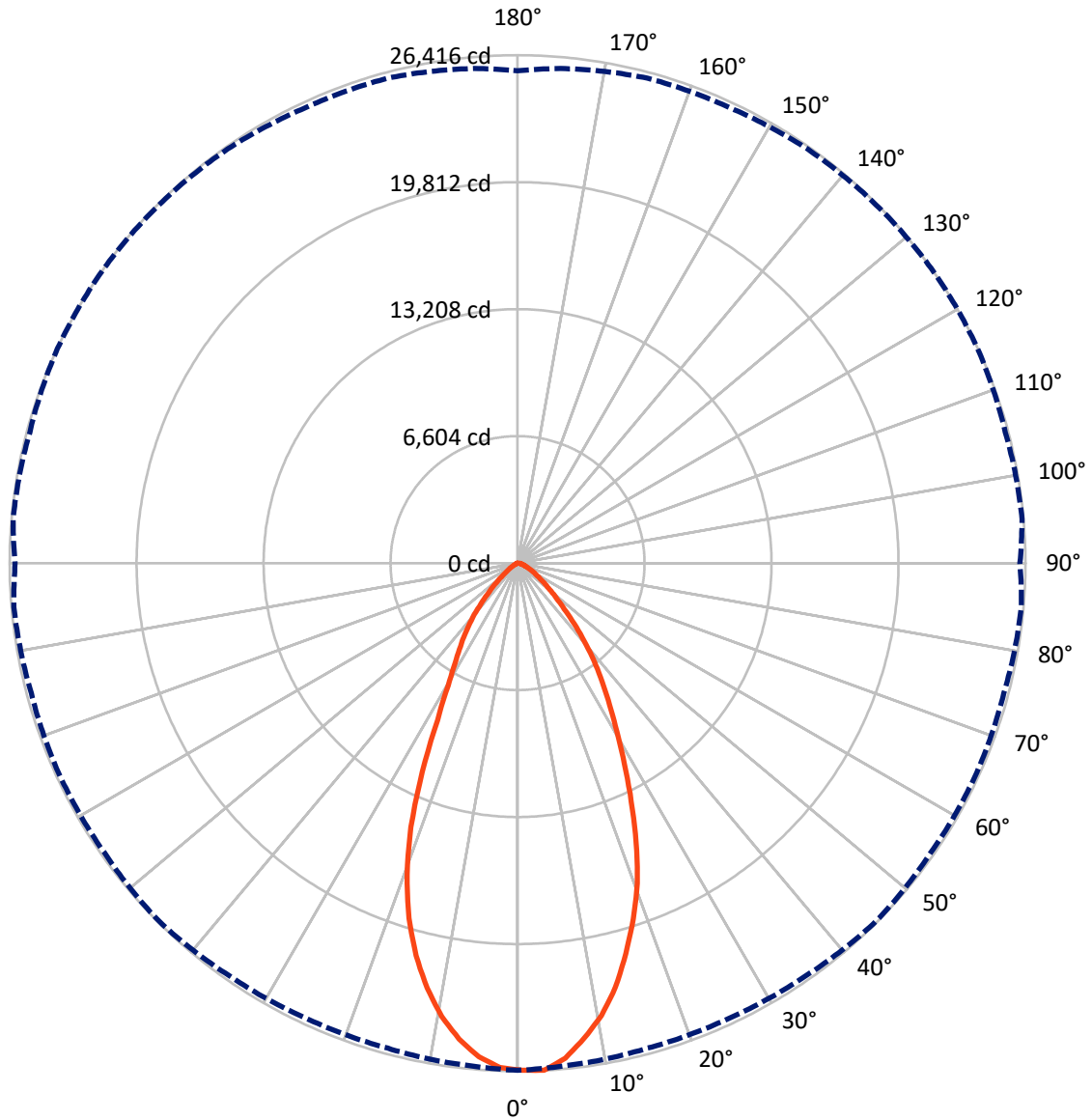
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 65.9 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	12525.7	0.0	12525.7
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	9548.3	0.0	9548.3
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	22074.0	0.0	22074.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2394.8	10.8
10°-20°	5708.6	25.9
20°-30°	5814.1	26.3
30°-40°	4335.6	19.6
40°-50°	2265.0	10.3
50°-60°	952.7	4.3
60°-70°	389.1	1.8
70°-80°	163.7	0.7
80°-90°	50.5	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°	22074.0	100.0
0°-180°	22074.0	100.0



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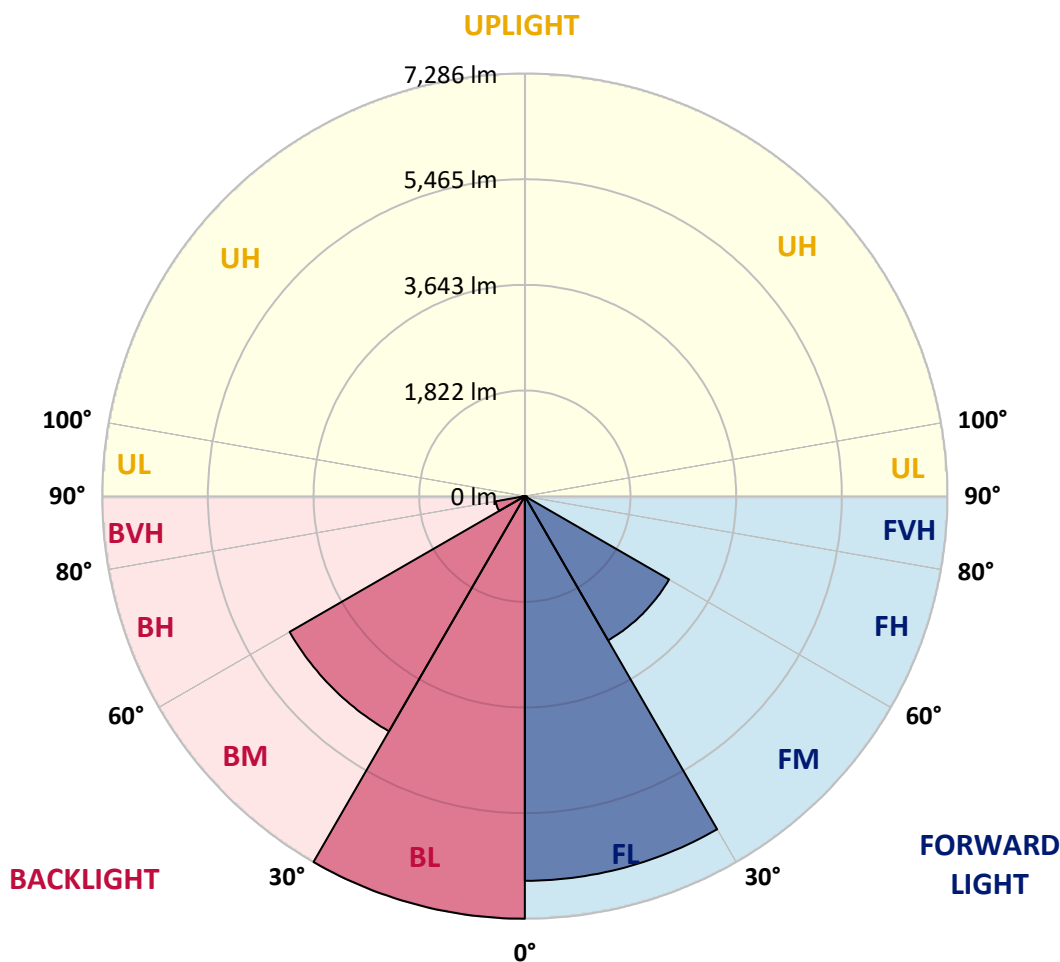
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6631.3	30.0			
FM (30°-60°)	2870.8	13.0			
FH (60°-80°)	41.5	0.2			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	7286.2	33.0	B5		
BM (30°-60°)	4682.4	21.2	B3/5000		
BH (60°-80°)	511.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	45.8	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°	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1
2.5°	26375.9	26268.2	26115.0	26100.9	26180.2	26353.2	26242.6	26248.3	26180.2	26296.5
5°	25961.9	25859.8	25754.9	25616.0	25732.2	25806.0	25749.3	25686.9	25599.0	25712.4
7.5°	25179.3	25122.6	24966.7	24904.3	24975.2	25057.4	24935.5	24918.4	24796.5	24944.0
10°	23982.7	23960.0	23806.9	23770.1	23832.4	23957.2	23903.3	23892.0	23815.4	23801.3
12.5°	22740.8	22652.9	22462.9	22451.6	22545.1	22732.3	22587.7	22448.7	22491.3	22528.1
15°	19542.3	19448.8	19919.4	20659.5	21048.0	21033.8	21076.3	20909.0	20858.0	20875.0
17.5°	15535.8	15377.0	15547.1	16692.6	18538.6	19610.4	19315.5	18955.4	18762.6	18635.0
20°	13409.1	13417.6	13386.4	13681.3	14832.5	17276.8	17205.9	16511.2	16258.8	16153.9
22.5°	12116.1	12067.9	11999.9	12093.4	12402.5	13837.3	14798.5	14160.5	14072.6	13956.4
25°	10848.7	10848.7	10766.4	10860.0	10947.9	10967.7	11931.8	12192.7	12022.6	12022.6
27.5°	9751.3	9694.6	9657.7	9700.3	9584.0	9025.4	9147.4	10482.9	10366.6	10295.7
30°	8662.5	8645.5	8583.1	8639.8	8208.8	7579.3	7324.1	8846.8	8968.7	8943.2
32.5°	7151.2	7219.2	7497.1	7585.0	6847.8	6340.2	6096.3	7344.0	7831.7	7811.8
35°	4860.1	4916.8	5234.3	6283.5	5676.7	5313.7	5242.9	5841.1	6643.6	6720.2
37.5°	3870.5	3862.0	3952.7	4139.8	4562.3	4474.4	4454.6	4610.5	5418.7	5452.7
40°	3189.9	3178.6	3175.8	3022.7	2917.7	3720.2	3666.3	3572.7	4273.1	4341.2
42.5°	2571.8	2583.1	2591.7	2257.1	2103.9	2869.5	2838.3	2741.9	3351.6	3431.0
45°	2018.9	2016.0	2033.1	1681.5	1638.9	1834.6	2121.0	2044.4	2529.3	2614.3
47.5°	1046.3	1083.2	1312.8	1301.5	1321.3	1301.5	1604.9	1585.0	1902.6	2038.7
50°	703.2	714.5	734.4	737.2	1040.6	958.4	1088.8	1233.4	1332.7	1542.5
52.5°	544.4	552.9	501.9	470.7	638.0	708.9	714.5	853.5	930.0	1142.7
55°	303.4	340.3	365.8	368.6	351.6	524.6	521.7	632.3	691.9	833.6
57.5°	39.7	48.2	73.7	238.2	235.3	292.1	365.8	459.4	493.4	609.6
60°	2.8	5.7	8.5	36.9	156.0	170.1	249.5	286.4	343.1	428.2
62.5°	0.0	0.0	2.8	8.5	31.2	99.2	130.4	150.3	201.3	280.7
65°	0.0	0.0	2.8	5.7	11.3	36.9	51.0	82.2	119.1	173.0
67.5°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	36.9	62.4	104.9
70°	0.0	0.0	2.8	5.7	8.5	11.3	17.0	22.7	34.0	56.7
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	14.2	17.0	22.7	31.2
75°	0.0	0.0	2.8	5.7	8.5	14.2	14.2	14.2	17.0	19.8
77.5°	0.0	0.0	2.8	5.7	8.5	14.2	11.3	14.2	14.2	14.2
80°	0.0	0.0	2.8	5.7	8.5	14.2	17.0	14.2	11.3	11.3
82.5°	0.0	0.0	2.8	8.5	8.5	19.8	19.8	19.8	8.5	8.5
85°	0.0	0.0	5.7	8.5	14.2	22.7	22.7	17.0	8.5	5.7
87.5°	0.0	0.0	2.8	5.7	5.7	11.3	17.0	14.2	5.7	2.8
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°
26373.1	0°	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1	26373.1
26126.4	2.5°	26336.2	26265.3	26398.6	26415.6	26358.9	26288.0	26123.5	26109.4	25823.0
25547.9	5°	25837.2	25720.9	25806.0	25862.7	25842.8	25766.3	25698.2	25635.8	25377.8
24609.4	7.5°	24907.1	24864.6	24904.3	24946.8	25029.0	24946.8	24918.4	24853.2	24598.0
23685.0	10°	23875.0	23795.6	23945.9	23926.0	23903.3	23880.7	23761.6	23772.9	23472.3
22426.0	12.5°	22607.5	22474.2	22618.9	22635.9	22618.9	22539.5	22406.2	22462.9	22187.9
20724.7	15°	20903.4	20889.2	20994.1	21062.2	21110.4	21025.3	20979.9	21008.3	20843.8
18535.7	17.5°	18810.8	18995.1	19338.2	19454.4	19457.3	19545.2	19519.6	19485.6	19363.7
16111.4	20°	16349.5	16704.0	17231.4	17773.0	17928.9	17855.2	17821.2	17883.6	17702.1
13834.4	22.5°	14078.3	14381.7	14994.2	15785.3	16241.8	16287.2	16278.7	16224.8	16153.9
12011.2	25°	12150.2	12419.5	13006.5	13729.5	14605.7	14736.1	14741.8	14724.8	14662.4
10358.1	27.5°	10522.6	10848.7	11171.9	11818.4	12751.3	13290.0	13222.0	13202.1	13179.4
8963.0	30°	9048.1	9459.3	9762.7	10165.3	11001.8	11730.5	11801.4	11767.4	11713.5
7809.0	32.5°	7879.9	8123.7	8509.4	8781.6	9382.7	10207.8	10480.0	10454.5	10406.3
6768.4	35°	6864.8	6961.2	7264.6	7568.0	7967.8	8767.4	9170.0	9113.3	9104.8
5515.1	37.5°	5654.0	5977.3	6144.5	6450.8	6731.5	7352.5	7908.2	7882.7	7885.5
4434.7	40°	4565.2	4752.3	5084.1	5342.1	5600.1	6053.8	6672.0	6689.0	6683.3
3433.8	42.5°	3504.7	3686.2	4034.9	4315.6	4545.3	4826.0	5415.8	5435.7	5461.2
2673.9	45°	2736.3	2852.5	3107.7	3399.8	3643.6	3813.8	4261.8	4389.4	4392.2
2072.8	47.5°	2123.8	2257.1	2438.5	2719.3	2957.4	3079.4	3405.4	3578.4	3569.9
1590.7	50°	1667.3	1789.2	1936.7	2157.8	2415.9	2512.3	2753.3	2923.4	2914.9
1199.4	52.5°	1276.0	1431.9	1562.4	1732.5	1984.9	2067.1	2240.1	2435.7	2407.3
879.0	55°	966.9	1125.7	1247.6	1389.4	1619.1	1724.0	1843.1	1999.0	2004.7
680.5	57.5°	728.7	893.2	1003.8	1148.4	1321.3	1437.6	1528.3	1695.6	1692.8
465.0	60°	521.7	663.5	796.8	947.1	1080.3	1213.6	1276.0	1434.8	1440.4
328.9	62.5°	377.1	510.4	638.0	768.4	887.5	1017.9	1074.7	1199.4	1216.4
215.5	65°	263.7	357.3	504.7	604.0	737.2	833.6	907.4	1015.1	1035.0
127.6	67.5°	170.1	258.0	399.8	487.7	609.6	691.9	768.4	853.5	879.0
82.2	70°	102.1	195.7	297.7	391.3	501.9	575.6	649.3	723.1	737.2
39.7	72.5°	65.2	136.1	215.5	317.6	402.6	482.0	547.3	601.1	558.6
25.5	75°	36.9	93.6	170.1	249.5	326.1	402.6	456.5	484.9	388.5
17.0	77.5°	22.7	68.1	138.9	201.3	252.4	323.2	357.3	374.3	277.9
11.3	80°	14.2	51.0	116.3	164.5	164.5	238.2	277.9	292.1	201.3
8.5	82.5°	11.3	36.9	90.7	124.8	110.6	178.6	218.3	221.2	141.8
5.7	85°	8.5	28.4	56.7	82.2	76.6	124.8	127.6	141.8	93.6
5.7	87.5°	5.7	17.0	34.0	48.2	42.5	59.5	68.1	76.6	51.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
26373.1  
25599.0  
25170.8  
24544.2  
23370.3  
22108.5  
20645.3  
19182.2  
17571.6  
16017.8  
14452.6  
13046.2  
11645.4  
10278.7  
9011.2  
7794.8  
6584.1  
5376.1  
4318.5  
3538.7  
2914.9  
2410.2  
2004.7  
1687.1  
1426.3  
1210.8  
1029.3  
876.2  
725.9  
518.9  
368.6  
260.9  
187.1  
130.4  
85.1  
45.4  
0.0

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