

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: P637673

Luminaire Tested: **IFLD-S-SA3D-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637673
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22394.6 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 184.1
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



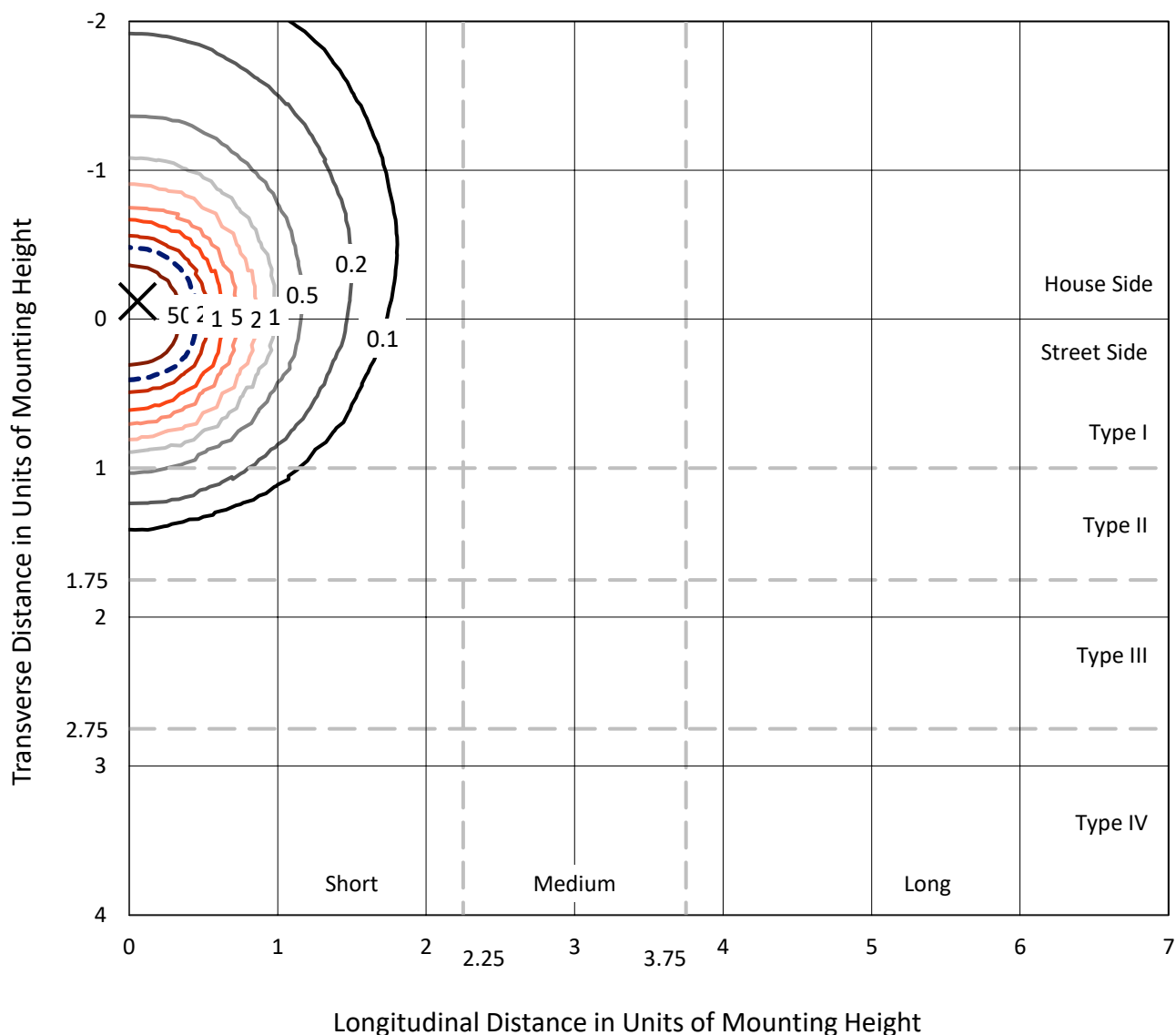
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



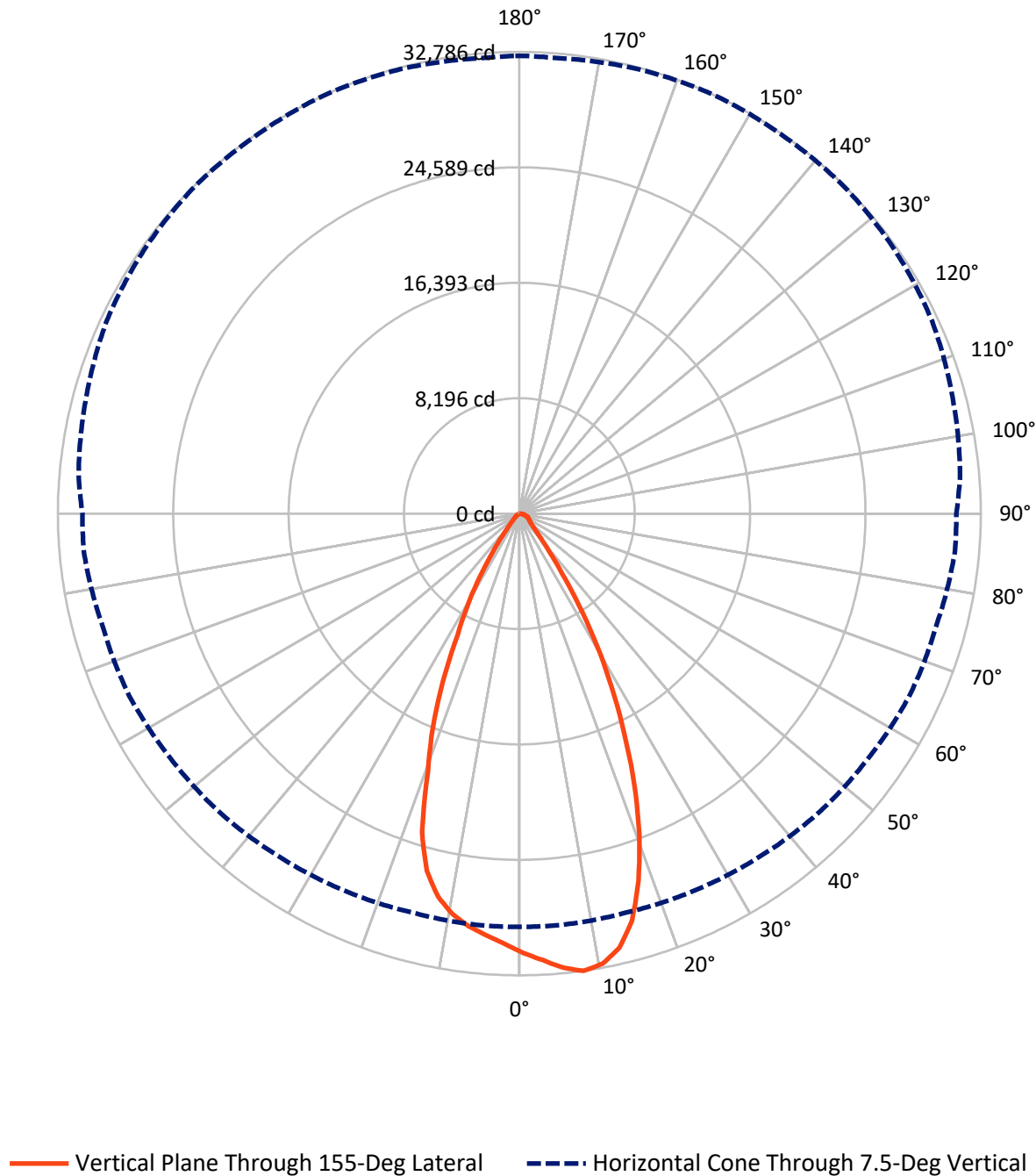
Based on 20 foot mounting height. Maximum calculated value = 79.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12362.6	0.0	12362.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10032.0	0.0	10032.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	22394.6	0.0	22394.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2974.9	13.3
10°-20°	7713.9	34.4
20°-30°	7068.1	31.6
30°-40°	2855.5	12.8
40°-50°	837.7	3.7
50°-60°	468.4	2.1
60°-70°	284.5	1.3
70°-80°	144.5	0.6
80°-90°	47.3	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°	22394.6	100.0
0°-180°	22394.6	100.0

Coefficient of Utilization



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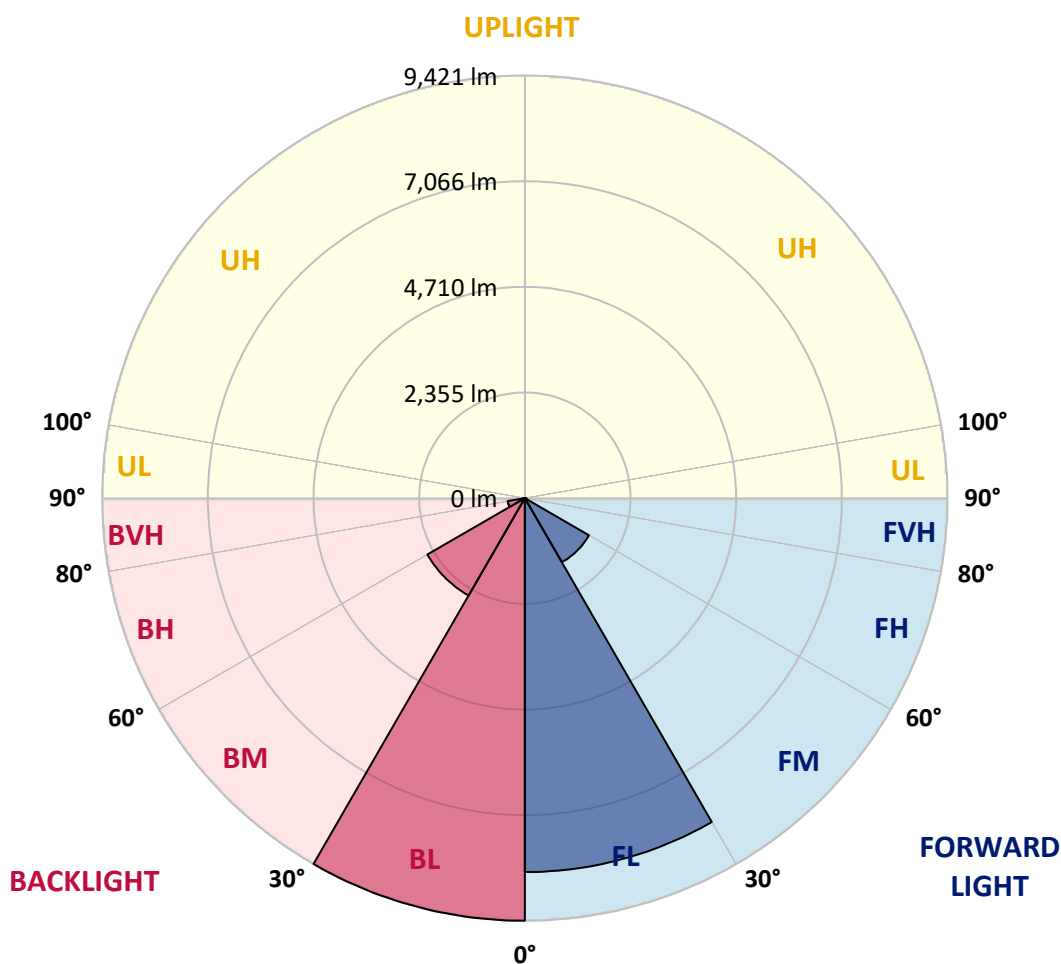
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8335.8	37.2			
FM	(30°-60°)	1652.0	7.4			
FH	(60°-80°)	40.0	0.2			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	9421.0	42.1	B5		
BM	(30°-60°)	2509.5	11.2	B3/5000		
BH	(60°-80°)	389.0	1.7	B1/500		G1/500
BVH	(80°-90°)	43.2	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-G1

Type I Short



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CATALOG NUMBER: IFLD-S-SA3D-750-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4
2.5°	30520.8	30624.1	30417.5	30554.4	30660.3	30913.4	30934.0	31021.8	31052.8	31282.6
5°	29942.4	30022.4	29854.6	30037.9	30187.7	30412.4	30585.4	30828.1	30962.4	31233.6
7.5°	29340.7	29358.8	29325.2	29518.9	29743.5	30053.4	30267.8	30585.4	30668.0	31055.4
10°	28612.5	28480.8	28545.3	28829.4	29165.1	29640.2	29787.4	30105.1	30252.3	30647.4
12.5°	27450.4	27517.6	27437.5	27799.0	28077.9	28617.6	28772.6	29092.8	29374.3	29722.9
15°	25813.2	25774.5	25937.2	26218.6	26520.8	26949.4	27199.9	27548.5	27762.9	28124.4
17.5°	22133.3	22265.0	22936.5	23641.4	24261.2	24762.2	25061.7	25351.0	25505.9	25898.4
20°	19114.6	18949.3	19039.7	19437.4	21201.1	21968.1	22283.1	22352.8	22417.4	22727.3
22.5°	15739.4	15685.2	15987.3	16434.1	16852.4	18621.3	19050.0	18887.3	19021.6	19313.4
25°	11687.7	11961.5	12230.0	13087.4	13629.7	14497.3	15310.8	15383.1	15432.1	15615.5
27.5°	9513.4	9417.8	9412.7	9652.8	10453.4	11176.4	11868.5	12028.6	12000.2	12175.8
30°	7478.5	7447.5	7339.0	7395.9	7315.8	7958.8	8284.2	8942.7	8906.5	8911.7
32.5°	5394.5	5278.3	5234.4	5319.6	5237.0	5177.6	5461.7	6205.4	6192.5	6244.1
35°	3264.1	3248.6	3284.8	3359.6	3194.4	3189.2	3248.6	3948.4	4033.6	4116.3
37.5°	1802.5	1787.0	1815.4	2091.7	2037.5	1988.4	2003.9	2373.2	2618.5	2680.5
40°	1187.9	1185.3	1206.0	1255.0	1348.0	1329.9	1337.7	1502.9	1735.3	1789.6
42.5°	795.4	797.9	810.9	867.7	880.6	973.5	958.1	996.8	1213.7	1260.2
45°	635.3	632.7	640.4	614.6	630.1	725.6	736.0	738.6	924.5	952.9
47.5°	501.0	501.0	508.7	475.2	467.4	526.8	581.0	588.8	738.6	777.3
50°	351.2	351.2	389.9	374.4	392.5	410.6	470.0	477.7	604.3	645.6
52.5°	258.2	263.4	268.6	271.1	330.5	328.0	379.6	415.8	457.1	529.4
55°	196.3	201.4	188.5	201.4	245.3	273.7	284.1	335.7	364.1	444.2
57.5°	129.1	142.0	131.7	154.9	165.3	211.8	227.2	276.3	294.4	364.1
60°	18.1	20.7	33.6	108.5	116.2	139.4	175.6	219.5	237.6	297.0
62.5°	2.6	2.6	7.7	18.1	77.5	93.0	131.7	152.4	175.6	222.1
65°	0.0	0.0	2.6	5.2	15.5	54.2	67.1	82.6	121.4	160.1
67.5°	0.0	0.0	2.6	5.2	7.7	18.1	28.4	54.2	69.7	111.0
70°	0.0	0.0	2.6	5.2	7.7	10.3	15.5	20.7	41.3	64.6
72.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	15.5	18.1	41.3
75°	0.0	0.0	2.6	5.2	7.7	12.9	15.5	15.5	15.5	18.1
77.5°	0.0	0.0	2.6	5.2	10.3	15.5	18.1	15.5	12.9	12.9
80°	0.0	0.0	2.6	7.7	12.9	18.1	20.7	15.5	10.3	7.7
82.5°	0.0	0.0	2.6	7.7	12.9	18.1	20.7	18.1	10.3	7.7
85°	0.0	0.0	2.6	7.7	10.3	12.9	20.7	18.1	10.3	5.2
87.5°	0.0	0.0	0.0	2.6	2.6	5.2	10.3	7.7	5.2	2.6
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°
31197.4	0°	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4	31197.4
31277.5	2.5°	31509.9	31626.1	31830.1	31886.9	32062.5	31861.1	31750.0	31760.4	31520.2
31200.0	5°	31509.9	31775.9	32132.2	32302.7	32431.8	32421.4	32393.0	32320.7	32145.1
31045.1	7.5°	31427.2	31861.1	32351.7	32579.0	32733.9	32721.0	32785.6	32669.4	32455.0
30768.7	10°	31161.3	31538.3	32142.6	32328.5	32579.0	32584.1	32504.1	32527.3	32145.1
29759.0	12.5°	30324.6	30619.0	31148.3	31360.1	31664.8	31713.9	31626.1	31592.5	31231.0
28103.7	15°	28705.4	28875.9	29407.8	29619.6	29921.7	29880.4	29968.2	29932.1	29614.4
25867.4	17.5°	26337.4	26391.6	26949.4	27127.6	27411.7	27522.7	27391.0	27558.9	27285.1
22781.5	20°	22941.6	23233.4	23860.9	24134.7	24299.9	24498.8	24325.8	24514.3	24194.1
19037.1	22.5°	19496.8	19669.8	20237.9	20633.0	20940.3	20979.0	20914.5	21046.2	20614.9
15736.9	25°	15734.3	16020.9	16470.2	16986.7	17288.9	17474.8	17306.9	17392.1	17322.4
12204.2	27.5°	12410.8	12666.4	13004.7	13389.5	13844.0	14086.7	13952.5	14097.1	13756.2
9100.2	30°	9108.0	9237.1	9619.3	10027.3	10525.7	10820.1	10833.0	10980.2	10778.7
6375.8	32.5°	6422.3	6535.9	6770.9	7042.1	7517.2	7845.2	7793.5	7814.2	7690.2
4155.0	35°	4175.7	4328.0	4495.9	4625.0	4911.6	5273.2	5244.8	5218.9	5133.7
2732.1	37.5°	2791.5	2850.9	2943.9	3060.1	3246.0	3473.3	3548.2	3455.2	3419.0
1843.8	40°	1887.7	1991.0	2053.0	2140.8	2228.6	2419.7	2471.3	2453.2	2417.1
1291.2	42.5°	1340.2	1420.3	1497.8	1583.0	1629.5	1748.3	1849.0	1820.6	1805.1
981.3	45°	1017.4	1089.8	1180.1	1244.7	1291.2	1360.9	1456.4	1466.8	1443.5
787.6	47.5°	816.0	880.6	952.9	1032.9	1087.2	1131.1	1213.7	1244.7	1229.2
663.7	50°	692.1	741.1	810.9	890.9	950.3	989.0	1061.3	1094.9	1084.6
555.2	52.5°	588.8	648.2	712.7	779.9	852.2	890.9	958.1	1007.1	999.4
459.7	55°	488.1	565.5	632.7	699.8	782.5	821.2	880.6	945.1	932.2
389.9	57.5°	426.1	490.6	560.4	624.9	712.7	764.4	818.6	885.7	883.2
320.2	60°	356.4	420.9	498.4	552.6	645.6	717.9	767.0	836.7	841.8
242.7	62.5°	284.1	364.1	423.5	498.4	583.6	668.8	715.3	785.0	810.9
185.9	65°	211.8	299.6	366.7	441.6	521.6	617.2	658.5	728.2	754.0
134.3	67.5°	157.5	224.7	309.9	374.4	464.8	547.5	596.5	661.1	679.2
80.1	70°	118.8	173.0	258.2	315.0	408.0	475.2	524.2	573.3	596.5
54.2	72.5°	69.7	129.1	204.0	271.1	351.2	408.0	444.2	482.9	498.4
25.8	75°	49.1	98.1	160.1	224.7	284.1	330.5	364.1	397.7	413.2
12.9	77.5°	25.8	72.3	126.5	180.8	222.1	260.8	294.4	320.2	330.5
10.3	80°	15.5	51.6	103.3	142.0	170.4	204.0	237.6	255.7	253.1
7.7	82.5°	10.3	41.3	74.9	103.3	124.0	149.8	173.0	185.9	185.9
5.2	85°	7.7	28.4	51.6	80.1	82.6	103.3	108.5	121.4	124.0
5.2	87.5°	5.2	18.1	28.4	46.5	43.9	54.2	56.8	64.6	69.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
31197.4
31326.5
32201.9
32504.1
32034.1
31148.3
29715.1
27218.0
24168.2
20555.5
17278.5
13844.0
10814.9
7760.0
5058.8
3411.3
2422.2
1792.2
1441.0
1221.5
1082.0
994.2
932.2
880.6
841.8
808.3
751.5
679.2
591.4
493.2
408.0
328.0
250.5
183.3
121.4
67.1
0.0

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