

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: P638201

Luminaire Tested: **IFLD-S-SA6E-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638201
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41631.9 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

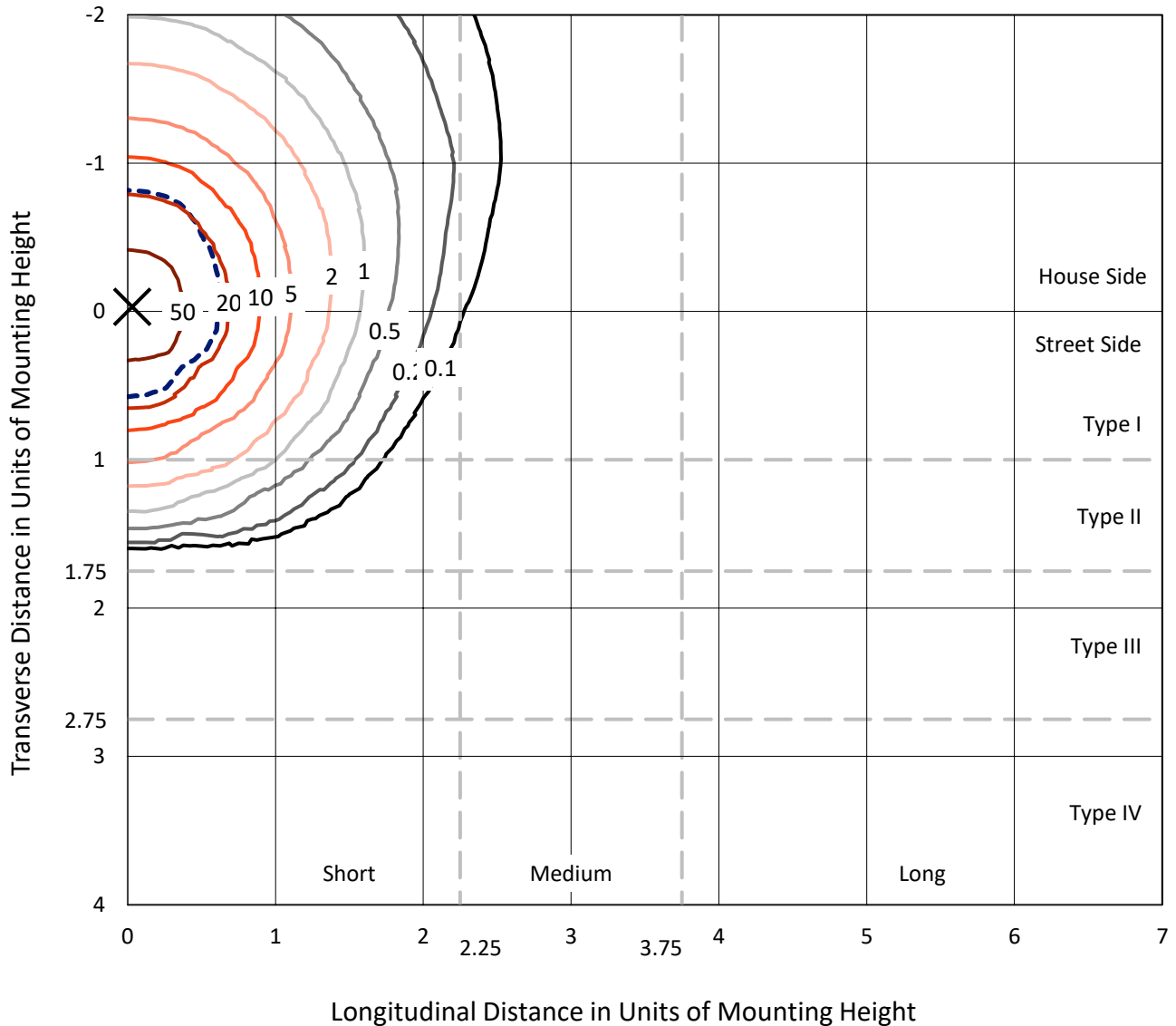
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

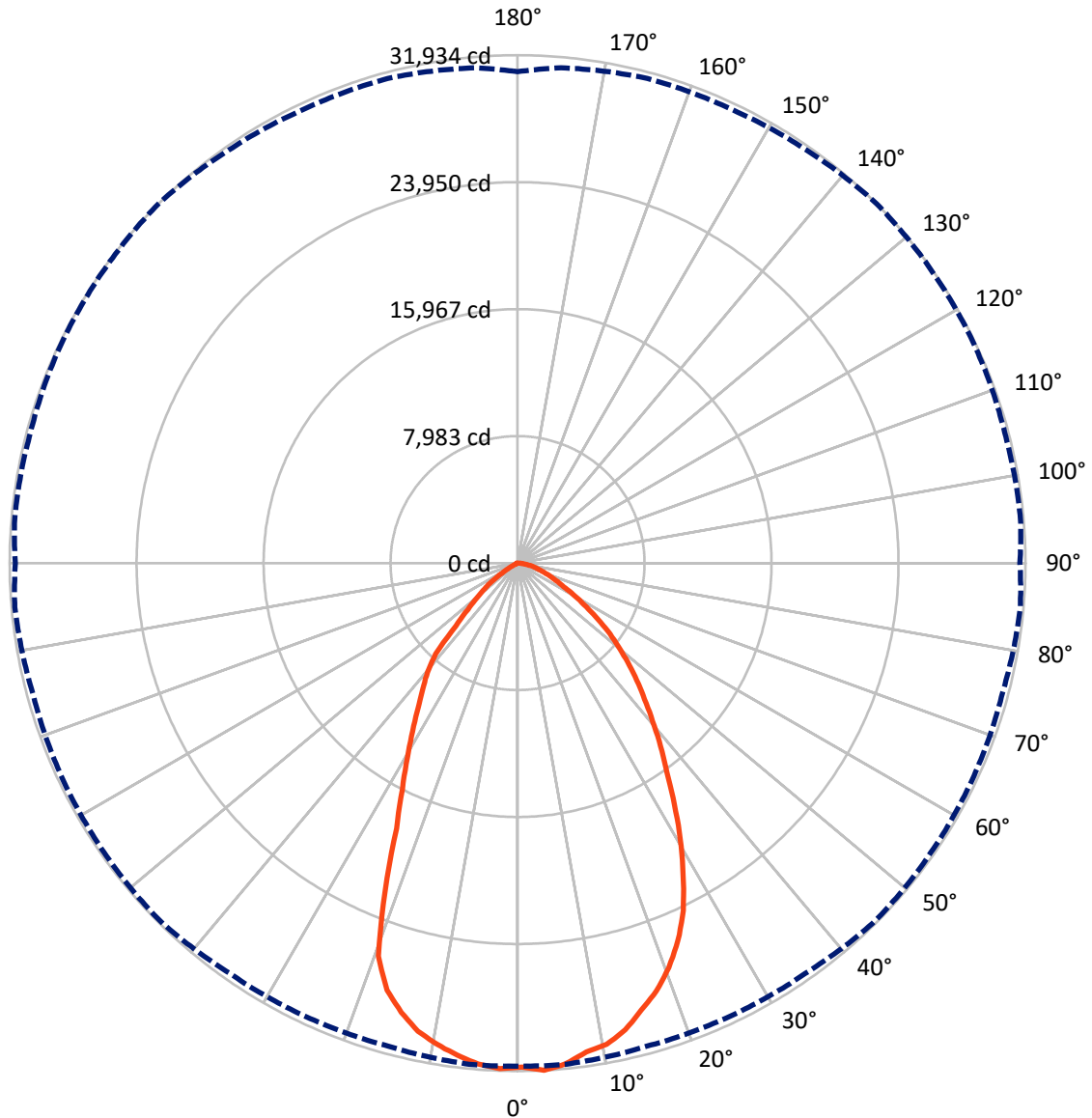
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 79.2 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
House Side	Lumens	24656.5	0.0	24656.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	16975.4	0.0	16975.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	41631.9	0.0	41631.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2971.2	7.1
10°-20°	7967.6	19.1
20°-30°	9716.9	23.3
30°-40°	8871.4	21.3
40°-50°	6411.2	15.4
50°-60°	3500.6	8.4
60°-70°	1447.4	3.5
70°-80°	586.2	1.4
80°-90°	159.5	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°	41631.9	100.0
0°-180°	41631.9	100.0



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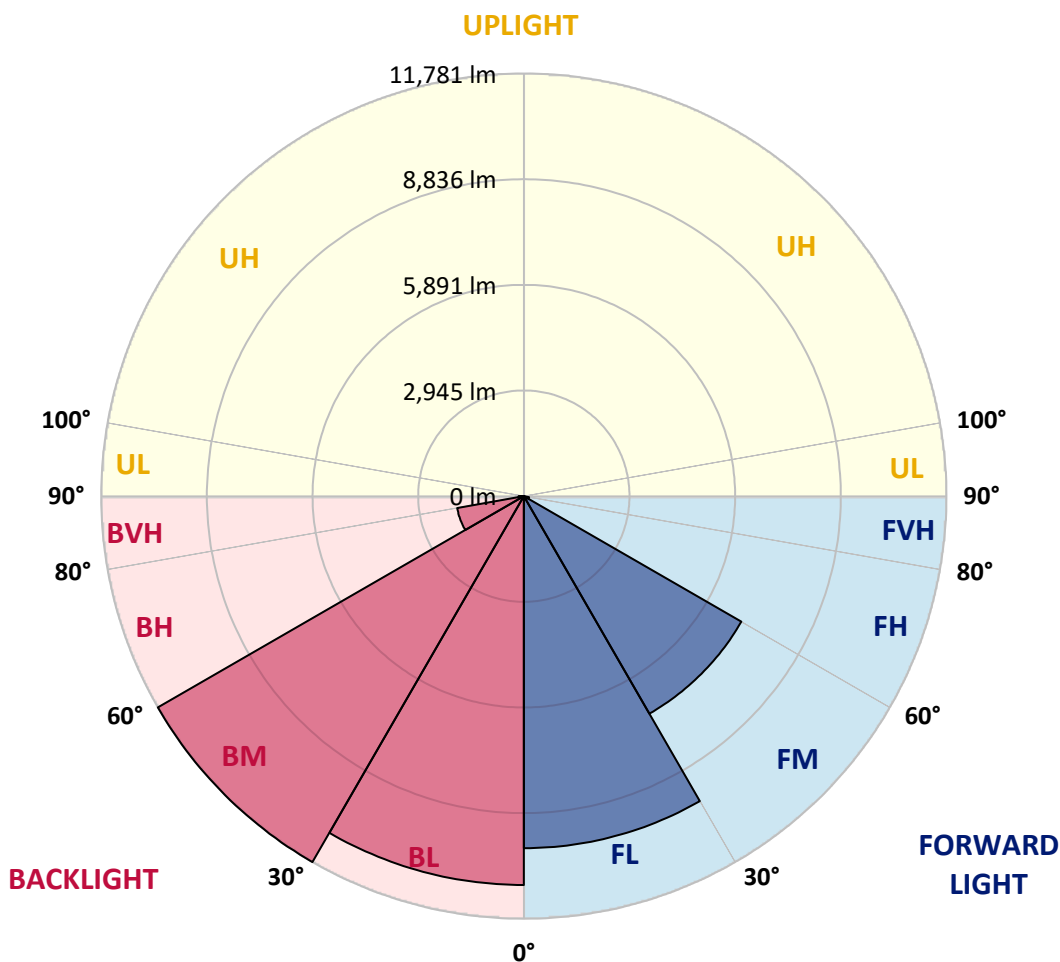
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9814.2	23.6			
FM (30°-60°)	7001.7	16.8			
FH (60°-80°)	146.7	0.4			G0/660
FVH (80°-90°)	12.8	0.0			G1/100
BL (0°-30°)	10841.5	26.0	B5		
BM (30°-60°)	11781.5	28.3	B5		
BH (60°-80°)	1886.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	146.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7
2.5°	31623.1	31664.1	31441.3	31464.8	31505.8	31804.8	31728.6	31658.3	31558.6	31728.6
5°	31582.0	31605.5	31371.0	31288.9	31324.1	31593.8	31347.5	31347.5	31324.1	31294.8
7.5°	31265.5	31277.2	31095.4	30948.9	31042.7	31165.8	30984.1	31072.0	30943.0	31042.7
10°	30790.6	30714.4	30497.5	30456.4	30561.9	30679.2	30556.1	30638.2	30520.9	30597.1
12.5°	30092.9	29975.7	29799.8	29747.0	29928.8	30087.1	29987.4	29940.5	29788.1	29975.7
15°	27402.0	27314.0	27712.7	28410.4	29037.7	29172.5	29067.0	29113.9	28797.3	28850.1
17.5°	22553.6	22389.4	22817.4	24470.7	26827.4	28070.3	27976.5	27671.7	27202.7	27308.2
20°	20495.8	20448.9	20402.0	20794.8	22442.2	26211.9	26340.8	25567.0	24898.6	24752.1
22.5°	19335.0	19317.4	19270.5	19358.4	19792.3	22213.5	23690.9	22975.7	22530.1	22489.1
25°	18273.9	18244.5	18103.8	18215.2	18215.2	18355.9	20249.6	20683.4	20290.6	20243.7
27.5°	17195.1	17142.4	17118.9	17171.7	16902.0	15952.2	16433.0	18549.4	18344.2	18355.9
30°	16028.5	16010.9	15946.4	16057.8	15225.3	14046.9	13742.0	16614.7	16655.8	16644.0
32.5°	14293.1	14369.3	14662.5	14785.6	13413.7	12440.5	11930.5	14375.2	15213.6	15196.0
35°	10382.7	10382.7	11338.3	13114.7	11754.6	11021.8	10746.2	12188.4	13788.9	13847.6
37.5°	8536.0	8565.3	8752.9	9562.0	10142.4	9884.4	9802.3	10259.6	11959.8	12053.6
40°	7680.1	7680.1	7680.1	7345.9	7328.3	8905.4	8858.5	8711.9	10330.0	10535.2
42.5°	6900.3	6917.9	6929.6	6085.4	5616.4	7697.6	7592.1	7369.3	8870.2	9110.5
45°	6097.1	6126.5	6161.6	5088.8	4883.6	5540.2	6425.5	6179.2	7428.0	7738.7
47.5°	3722.8	3769.7	4567.0	4314.9	4338.4	4273.9	5241.2	5200.2	6091.3	6531.0
50°	2515.1	2532.7	2608.9	2737.9	3722.8	3359.3	3711.1	4303.2	4625.6	5294.0
52.5°	2110.6	2139.9	1952.3	1776.4	2444.7	2626.5	2591.3	3195.1	3324.1	4150.7
55°	1483.2	1577.1	1489.1	1471.5	1389.4	2040.2	1964.0	2456.4	2538.5	3154.1
57.5°	152.4	175.9	304.9	1096.3	908.7	1154.9	1401.2	1799.8	1881.9	2327.5
60°	11.7	11.7	29.3	152.4	662.5	691.8	967.3	1108.0	1266.3	1624.0
62.5°	0.0	5.9	11.7	23.5	105.5	369.3	486.6	580.4	762.1	1049.4
65°	0.0	0.0	5.9	17.6	23.5	140.7	187.6	304.9	416.2	650.8
67.5°	0.0	0.0	5.9	11.7	17.6	35.2	64.5	111.4	222.8	369.3
70°	0.0	0.0	5.9	11.7	17.6	29.3	46.9	70.4	99.7	199.3
72.5°	0.0	0.0	5.9	5.9	11.7	29.3	35.2	46.9	70.4	99.7
75°	0.0	0.0	5.9	5.9	17.6	35.2	29.3	35.2	46.9	64.5
77.5°	0.0	0.0	5.9	11.7	17.6	35.2	29.3	35.2	35.2	41.0
80°	0.0	0.0	5.9	11.7	23.5	41.0	35.2	35.2	29.3	29.3
82.5°	0.0	0.0	5.9	17.6	23.5	52.8	52.8	46.9	23.5	17.6
85°	0.0	0.0	11.7	23.5	35.2	58.6	58.6	46.9	17.6	11.7
87.5°	0.0	0.0	11.7	17.6	29.3	41.0	58.6	46.9	17.6	5.9
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°
31681.7	0°	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7	31681.7
31582.0	2.5°	31740.3	31705.2	31822.4	31869.3	31933.8	31687.6	31535.1	31541.0	31259.6
31224.4	5°	31412.0	31417.9	31570.3	31558.6	31623.1	31488.2	31429.6	31330.0	31083.7
30773.0	7.5°	30995.8	30943.0	31089.6	31201.0	31036.8	31130.6	30995.8	31042.7	30896.1
30374.3	10°	30673.3	30550.2	30685.1	30761.3	30767.1	30673.3	30544.4	30421.2	30368.5
29752.9	12.5°	29958.1	29799.8	30028.4	30134.0	30116.4	29934.6	29788.1	29817.4	29647.4
28662.5	15°	28973.2	28979.0	29143.2	29242.9	29149.1	29108.0	29119.7	29049.4	28902.8
27155.8	17.5°	27466.5	27554.4	27988.2	28228.6	28281.4	28199.3	28158.3	28076.2	27929.6
24752.1	20°	24957.3	25484.9	26258.8	27003.3	27149.9	27126.4	26979.9	26944.7	26862.6
22371.8	22.5°	22752.9	23145.7	24042.7	25203.5	25801.5	25860.1	25684.2	25631.5	25543.5
20243.7	25°	20472.3	20894.5	21703.5	22964.0	24201.0	24453.1	24423.8	24265.5	24171.7
18355.9	27.5°	18549.4	18971.5	19704.3	20841.7	22166.6	22975.7	23051.9	22799.8	22793.9
16673.4	30°	16814.1	17394.5	17951.4	18877.7	20161.6	21375.2	21504.2	21328.3	21345.9
15131.5	32.5°	15453.9	15934.7	16409.5	17031.0	18098.0	19510.9	20015.1	19850.9	19786.4
13847.6	35°	14064.5	14392.8	14879.4	15448.1	16175.0	17576.2	18449.7	18326.6	18262.1
12112.2	37.5°	12481.6	13044.4	13396.1	14035.2	14603.8	15717.7	16948.9	16931.3	16796.5
10634.8	40°	10857.6	11449.7	11983.2	12628.1	13067.8	13953.1	15319.1	15313.2	15330.8
9104.7	42.5°	9386.1	9931.3	10576.2	11279.7	11701.8	12346.7	13812.4	13894.5	13994.1
7844.2	45°	8055.3	8547.7	9145.7	10001.7	10511.7	10881.1	12182.6	12557.8	12551.9
6718.6	47.5°	6859.3	7322.4	7826.6	8659.1	9309.9	9644.0	10722.8	11256.3	11221.1
5510.9	50°	5757.1	6167.5	6695.1	7299.0	8172.5	8465.7	9268.8	9972.4	9919.6
4391.1	52.5°	4631.5	5200.2	5645.7	6196.8	7117.2	7404.5	8026.0	8711.9	8670.8
3294.8	55°	3611.4	4162.5	4701.8	5176.7	5950.6	6378.6	6824.1	7527.6	7515.9
2579.6	57.5°	2732.0	3335.8	3845.9	4297.3	4912.9	5440.5	5798.2	6437.2	6519.3
1764.7	60°	2022.6	2485.8	3036.8	3541.0	4027.6	4572.9	4813.2	5440.5	5475.7
1207.7	62.5°	1377.7	1887.8	2427.1	2884.4	3247.9	3810.7	4027.6	4543.5	4608.0
773.9	65°	955.6	1283.9	1899.5	2227.8	2673.4	3154.1	3371.0	3781.4	3910.4
445.6	67.5°	633.2	914.6	1483.2	1782.2	2221.9	2550.2	2825.8	3160.0	3300.7
281.4	70°	345.9	674.2	1061.1	1407.0	1788.1	2104.7	2374.4	2644.1	2767.2
129.0	72.5°	234.5	451.4	738.7	1113.9	1442.2	1752.9	1993.3	2192.6	2198.5
76.2	75°	117.3	304.9	562.8	861.8	1125.6	1430.5	1647.4	1764.7	1624.0
46.9	77.5°	70.4	222.8	457.3	691.8	914.6	1154.9	1278.1	1342.5	1113.9
35.2	80°	41.0	158.3	357.6	551.1	633.2	850.1	967.3	984.9	744.6
23.5	82.5°	29.3	117.3	281.4	404.5	386.9	598.0	727.0	703.5	474.9
17.6	85°	17.6	82.1	175.9	252.1	234.5	392.8	422.1	433.8	275.5
11.7	87.5°	11.7	46.9	93.8	134.8	111.4	170.0	170.0	205.2	134.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
31681.7
30896.1
31025.1
30649.9
30134.0
29500.8
28756.3
27865.1
26675.0
25520.1
24072.0
22782.2
21257.9
19792.3
18174.2
16907.9
15330.8
13941.4
12563.6
11232.8
9966.5
8758.8
7545.2
6484.1
5528.5
4619.8
3881.1
3283.1
2720.3
2145.7
1518.4
1072.9
697.7
439.7
252.1
117.3
0.0

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