

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: P638123

Luminaire Tested: **IFLD-L-SA7D-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638123
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34165.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

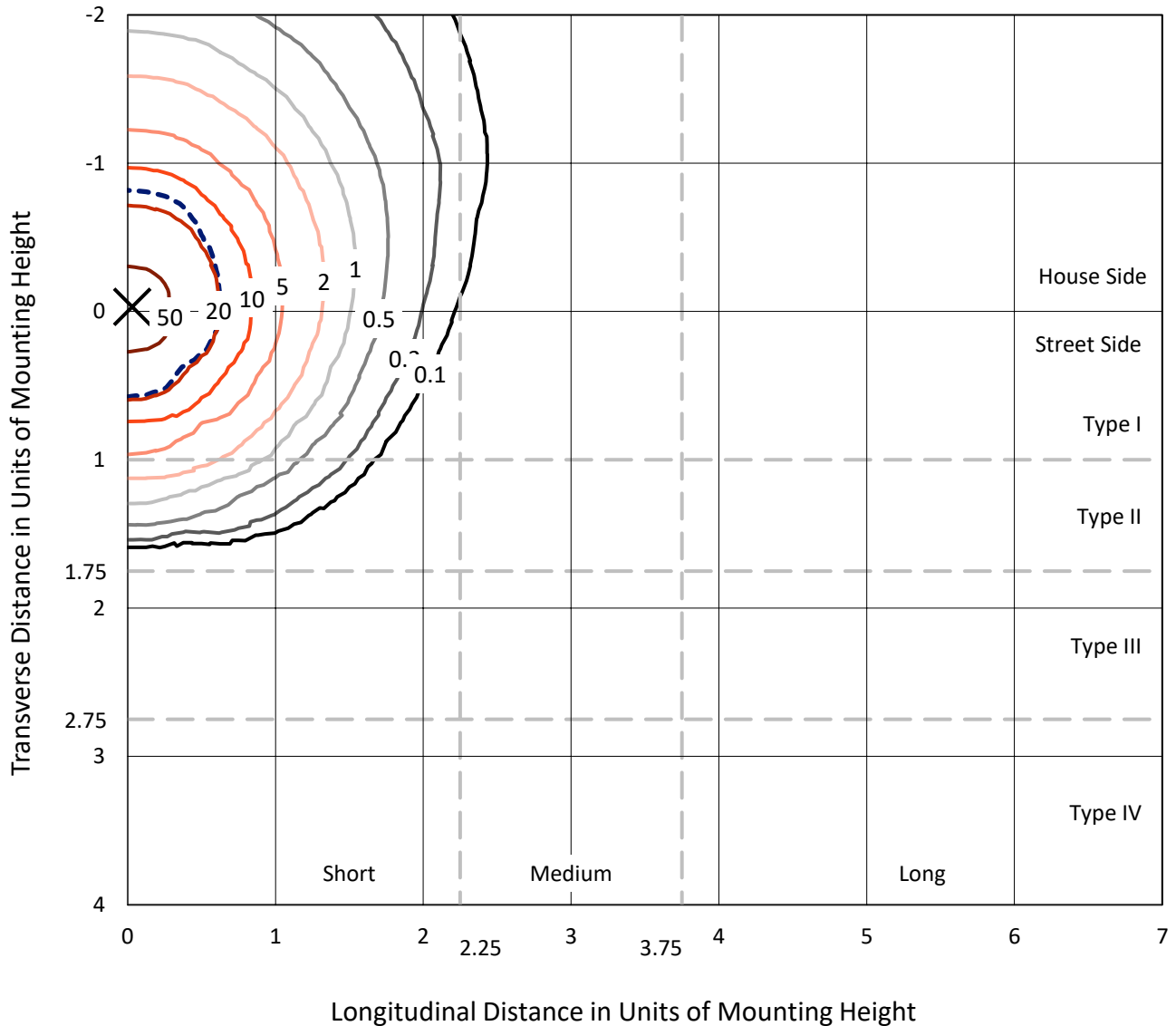
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638123
 CATALOG NUMBER: IFLD-L-SA7D-730-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

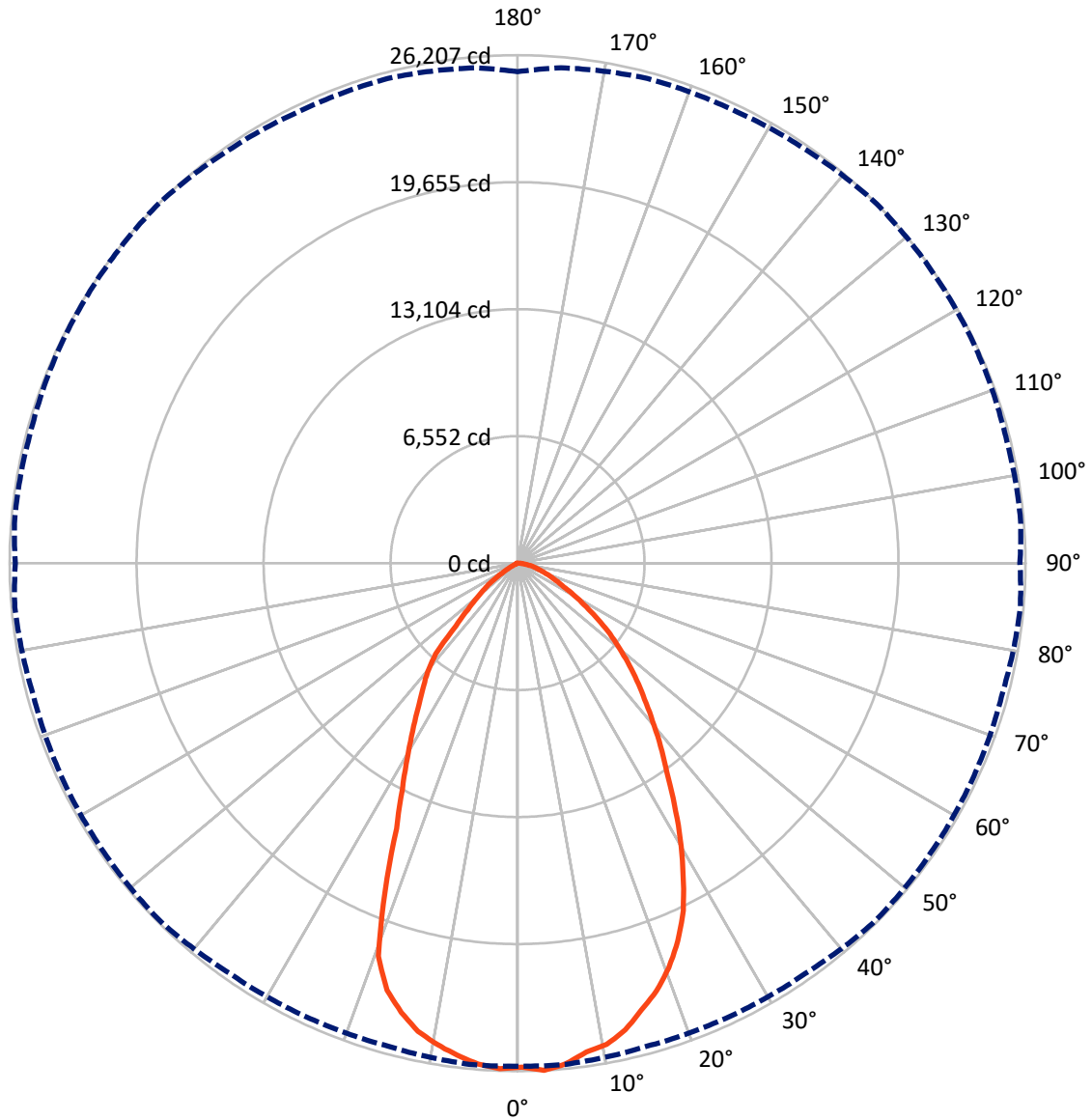
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 65 fc
 Type I - Short - N/A

REPORT NUMBER: P638123
CATALOG NUMBER: IFLD-L-SA7D-730-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638123

CATALOG NUMBER: IFLD-L-SA7D-730-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20234.7	0.0	20234.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13931.1	0.0	13931.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	34165.8	0.0	34165.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2438.4	7.1
10°-20°	6538.7	19.1
20°-30°	7974.3	23.3
30°-40°	7280.5	21.3
40°-50°	5261.4	15.4
50°-60°	2872.8	8.4
60°-70°	1187.8	3.5
70°-80°	481.1	1.4
80°-90°	130.9	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°	34165.8	100.0
0°-180°	34165.8	100.0



REPORT NUMBER: P638123

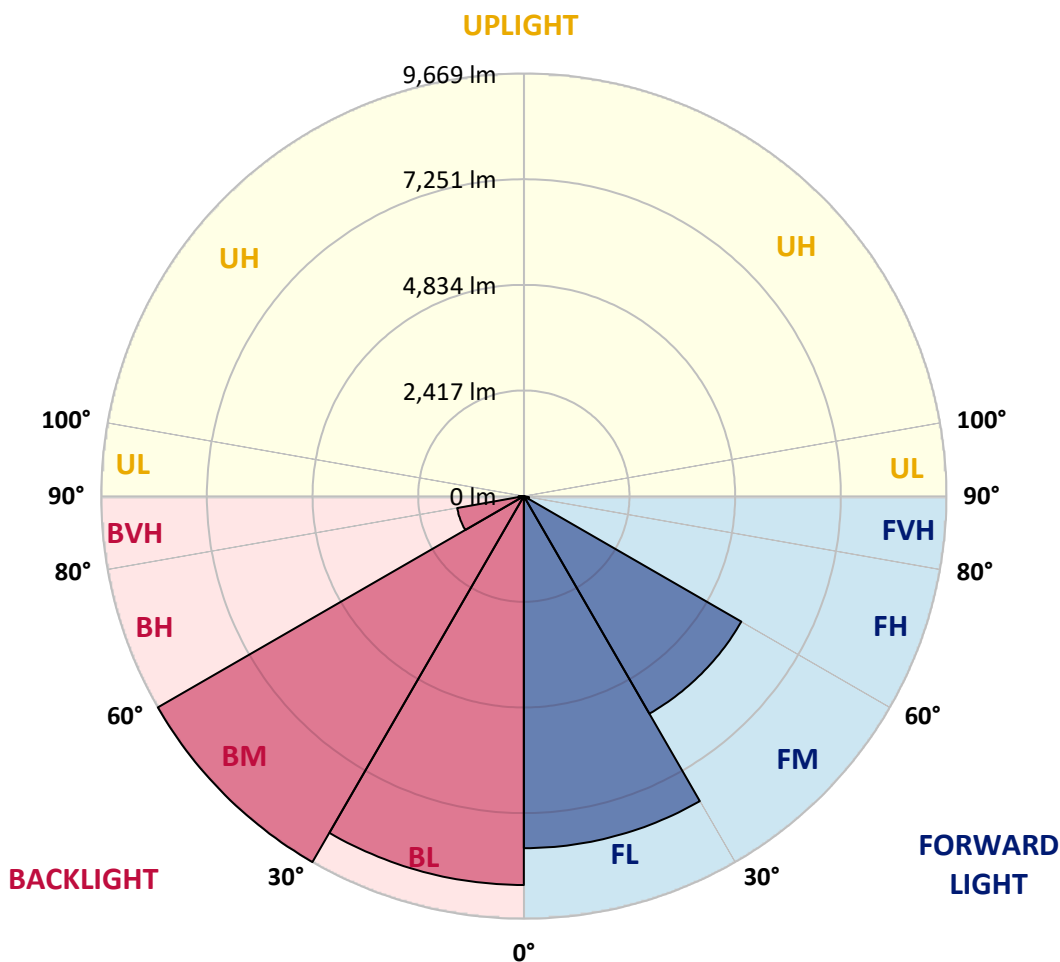
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8054.1	23.6			
FM (30°-60°)	5746.1	16.8			
FH (60°-80°)	120.4	0.4			G0/660
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	8897.3	26.0	B5		
BM (30°-60°)	9668.6	28.3	B5		
BH (60°-80°)	1548.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	120.4	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





REPORT NUMBER: P638123
 CATALOG NUMBER: IFLD-L-SA7D-730-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1
2.5°	25952.0	25985.6	25802.8	25822.1	25855.7	26101.1	26038.6	25980.8	25899.0	26038.6
5°	25918.3	25937.5	25745.1	25677.7	25706.6	25927.9	25725.8	25725.8	25706.6	25682.5
7.5°	25658.5	25668.1	25518.9	25398.7	25475.6	25576.7	25427.5	25499.7	25393.8	25475.6
10°	25268.8	25206.2	25028.2	24994.5	25081.1	25177.3	25076.3	25143.7	25047.4	25110.0
12.5°	24696.2	24600.0	24455.7	24412.4	24561.5	24691.4	24609.6	24571.1	24446.0	24600.0
15°	22487.8	22415.7	22742.8	23315.4	23830.2	23940.8	23854.2	23892.7	23632.9	23676.2
17.5°	18508.9	18374.2	18725.4	20082.2	22016.3	23036.3	22959.3	22709.2	22324.3	22410.9
20°	16820.2	16781.7	16743.2	17065.6	18417.5	21511.2	21617.0	20981.9	20433.4	20313.2
22.5°	15867.5	15853.1	15814.6	15886.8	16242.8	18229.9	19442.3	18855.3	18489.7	18456.0
25°	14996.7	14972.7	14857.2	14948.6	14948.6	15064.1	16618.1	16974.1	16651.8	16613.3
27.5°	14111.4	14068.1	14048.9	14092.2	13870.9	13091.4	13486.0	15222.8	15054.4	15064.1
30°	13154.0	13139.6	13086.6	13178.1	12494.9	11527.8	11277.6	13635.1	13668.8	13659.2
32.5°	11729.9	11792.4	12033.0	12134.0	11008.2	10209.5	9790.9	11797.2	12485.2	12470.8
35°	8520.7	8520.7	9305.0	10762.8	9646.6	9045.2	8819.0	10002.6	11316.1	11364.2
37.5°	7005.2	7029.3	7183.2	7847.2	8323.5	8111.8	8044.4	8419.7	9815.0	9892.0
40°	6302.8	6302.8	6302.8	6028.5	6014.1	7308.3	7269.8	7149.5	8477.4	8645.8
42.5°	5662.9	5677.3	5686.9	4994.1	4609.2	6317.2	6230.6	6047.8	7279.4	7476.7
45°	5003.7	5027.8	5056.6	4176.2	4007.8	4546.6	5273.1	5071.1	6095.9	6350.9
47.5°	3055.2	3093.6	3748.0	3541.1	3560.3	3507.4	4301.3	4267.6	4998.9	5359.7
50°	2064.0	2078.5	2141.0	2246.9	3055.2	2756.9	3045.5	3531.5	3796.1	4344.6
52.5°	1732.1	1756.1	1602.2	1457.8	2006.3	2155.4	2126.6	2622.1	2728.0	3406.4
55°	1217.2	1294.2	1222.1	1207.6	1140.3	1674.3	1611.8	2015.9	2083.3	2588.5
57.5°	125.1	144.3	250.2	899.7	745.7	947.8	1149.9	1477.1	1544.4	1910.1
60°	9.6	9.6	24.1	125.1	543.7	567.7	793.9	909.3	1039.2	1332.7
62.5°	0.0	4.8	9.6	19.2	86.6	303.1	399.3	476.3	625.5	861.2
65°	0.0	0.0	4.8	14.4	19.2	115.5	154.0	250.2	341.6	534.1
67.5°	0.0	0.0	4.8	9.6	14.4	28.9	52.9	91.4	182.8	303.1
70°	0.0	0.0	4.8	9.6	14.4	24.1	38.5	57.7	81.8	163.6
72.5°	0.0	0.0	4.8	4.8	9.6	24.1	28.9	38.5	57.7	81.8
75°	0.0	0.0	4.8	4.8	14.4	28.9	24.1	28.9	38.5	52.9
77.5°	0.0	0.0	4.8	9.6	14.4	28.9	24.1	28.9	28.9	33.7
80°	0.0	0.0	4.8	9.6	19.2	33.7	28.9	28.9	24.1	24.1
82.5°	0.0	0.0	4.8	14.4	19.2	43.3	43.3	38.5	19.2	14.4
85°	0.0	0.0	9.6	19.2	28.9	48.1	48.1	38.5	14.4	9.6
87.5°	0.0	0.0	9.6	14.4	24.1	33.7	48.1	38.5	14.4	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638123
 CATALOG NUMBER: IFLD-L-SA7D-730-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
26000.1	0°	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1	26000.1
25918.3	2.5°	26048.2	26019.3	26115.5	26154.0	26207.0	26004.9	25879.8	25884.6	25653.7
25624.8	5°	25778.7	25783.6	25908.7	25899.0	25952.0	25841.3	25793.2	25711.4	25509.3
25254.3	7.5°	25437.1	25393.8	25514.1	25605.5	25470.8	25547.8	25437.1	25475.6	25355.4
24927.2	10°	25172.5	25071.5	25182.2	25244.7	25249.5	25172.5	25066.7	24965.6	24922.3
24417.2	12.5°	24585.6	24455.7	24643.3	24729.9	24715.5	24566.3	24446.0	24470.1	24330.6
23522.3	15°	23777.3	23782.1	23916.8	23998.6	23921.6	23887.9	23897.5	23839.8	23719.5
22285.8	17.5°	22540.8	22612.9	22969.0	23166.2	23209.5	23142.2	23108.5	23041.1	22920.9
20313.2	20°	20481.5	20914.6	21549.6	22160.7	22281.0	22261.7	22141.4	22112.6	22045.2
18359.8	22.5°	18672.5	18994.9	19731.0	20683.6	21174.4	21222.5	21078.1	21034.8	20962.7
16613.3	25°	16800.9	17147.3	17811.3	18845.7	19860.9	20067.8	20043.7	19913.8	19836.8
15064.1	27.5°	15222.8	15569.2	16170.7	17104.0	18191.4	18855.3	18917.9	18711.0	18706.2
13683.2	30°	13798.7	14275.0	14732.1	15492.3	16545.9	17541.9	17647.7	17503.4	17517.8
12417.9	32.5°	12682.5	13077.0	13466.7	13976.7	14852.4	16011.9	16425.7	16290.9	16238.0
11364.2	35°	11542.2	11811.7	12211.0	12677.7	13274.3	14424.2	15141.0	15040.0	14987.1
9940.1	37.5°	10243.2	10705.1	10993.7	11518.2	11984.9	12899.0	13909.4	13894.9	13784.3
8727.6	40°	8910.5	9396.4	9834.2	10363.5	10724.3	11450.8	12571.8	12567.0	12581.5
7471.9	42.5°	7702.8	8150.3	8679.5	9256.9	9603.3	10132.5	11335.3	11402.7	11484.5
6437.5	45°	6610.7	7014.8	7505.6	8208.0	8626.6	8929.7	9997.8	10305.7	10300.9
5513.7	47.5°	5629.2	6009.3	6423.0	7106.2	7640.3	7914.5	8799.8	9237.6	9208.8
4522.6	50°	4724.7	5061.4	5494.5	5990.0	6706.9	6947.5	7606.6	8184.0	8140.7
3603.6	52.5°	3800.9	4267.6	4633.2	5085.5	5840.9	6076.6	6586.6	7149.5	7115.9
2703.9	55°	2963.7	3416.0	3858.6	4248.3	4883.4	5234.7	5600.3	6177.7	6168.0
2117.0	57.5°	2242.0	2737.6	3156.2	3526.7	4031.8	4464.9	4758.3	5282.8	5350.1
1448.2	60°	1659.9	2040.0	2492.2	2906.0	3305.3	3752.8	3950.0	4464.9	4493.7
991.1	62.5°	1130.6	1549.2	1991.9	2367.1	2665.4	3127.3	3305.3	3728.7	3781.7
635.1	65°	784.2	1053.7	1558.8	1828.3	2193.9	2588.5	2766.5	3103.3	3209.1
365.7	67.5°	519.6	750.6	1217.2	1462.6	1823.5	2092.9	2319.0	2593.3	2708.7
230.9	70°	283.9	553.3	870.8	1154.7	1467.4	1727.2	1948.6	2169.9	2270.9
105.8	72.5°	192.5	370.5	606.2	914.1	1183.6	1438.6	1635.8	1799.4	1804.2
62.5	75°	96.2	250.2	461.9	707.3	923.8	1173.9	1352.0	1448.2	1332.7
38.5	77.5°	57.7	182.8	375.3	567.7	750.6	947.8	1048.9	1101.8	914.1
28.9	80°	33.7	129.9	293.5	452.3	519.6	697.6	793.9	808.3	611.0
19.2	82.5°	24.1	96.2	230.9	332.0	317.5	490.7	596.6	577.4	389.7
14.4	85°	14.4	67.4	144.3	206.9	192.5	322.4	346.4	356.0	226.1
9.6	87.5°	9.6	38.5	77.0	110.7	91.4	139.5	139.5	168.4	110.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26000.1
25355.4
25461.2
25153.3
24729.9
24210.3
23599.2
22867.9
21891.2
20943.4
19755.0
18696.6
17445.6
16242.8
14914.9
13875.7
12581.5
11441.2
10310.5
9218.4
8179.1
7188.0
6192.1
5321.3
4537.0
3791.3
3185.1
2694.3
2232.4
1760.9
1246.1
880.5
572.5
360.8
206.9
96.2
0.0

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