

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: P477324

Luminaire Tested: **IFLD-L-SA7B-730-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477324
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

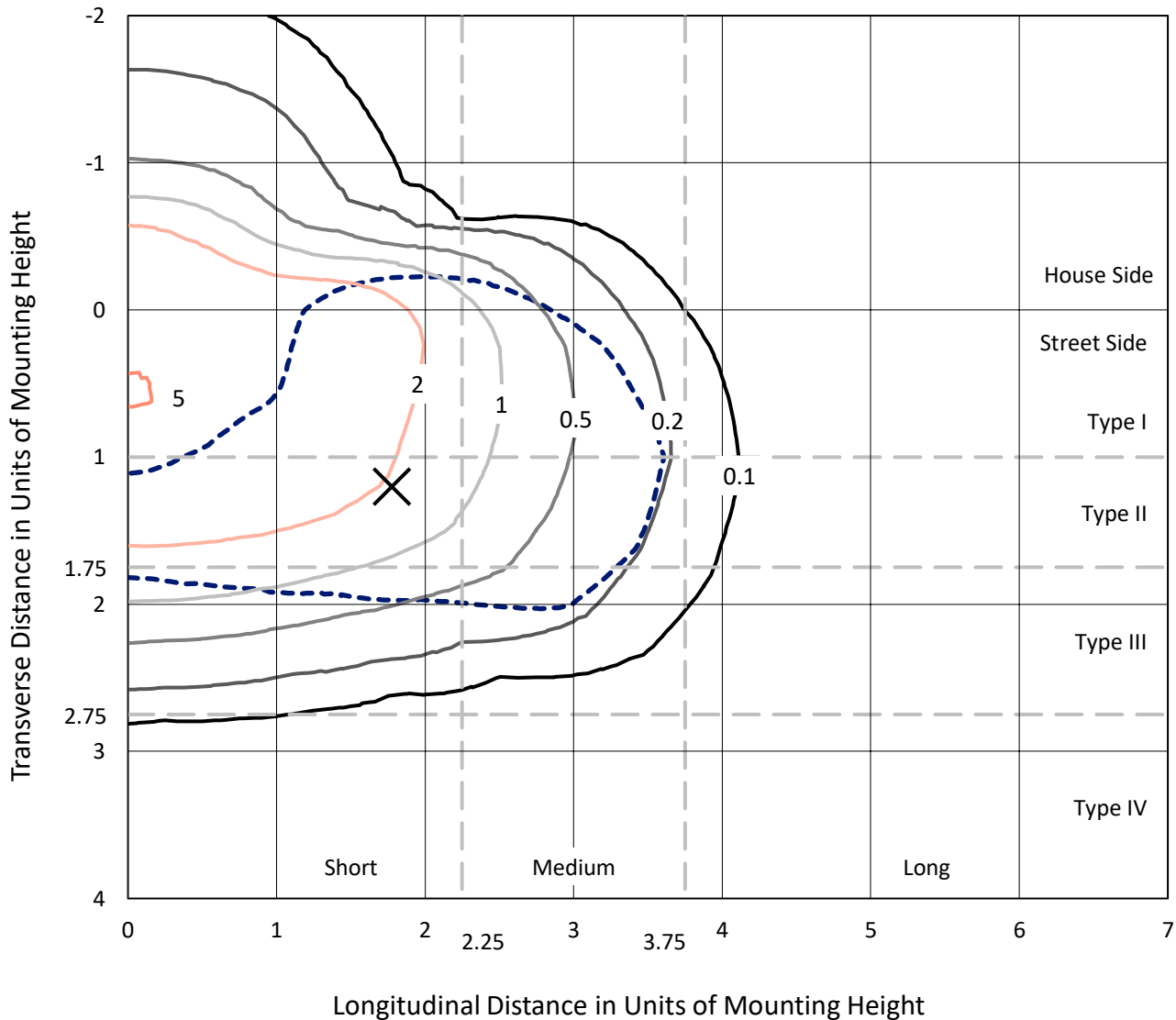
Lumens per Lamp: N/A
Luminaire Lumens: 33028.9 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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: 24 FT

REPORT NUMBER: P477324
 CATALOG NUMBER: IFLD-L-SA7B-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

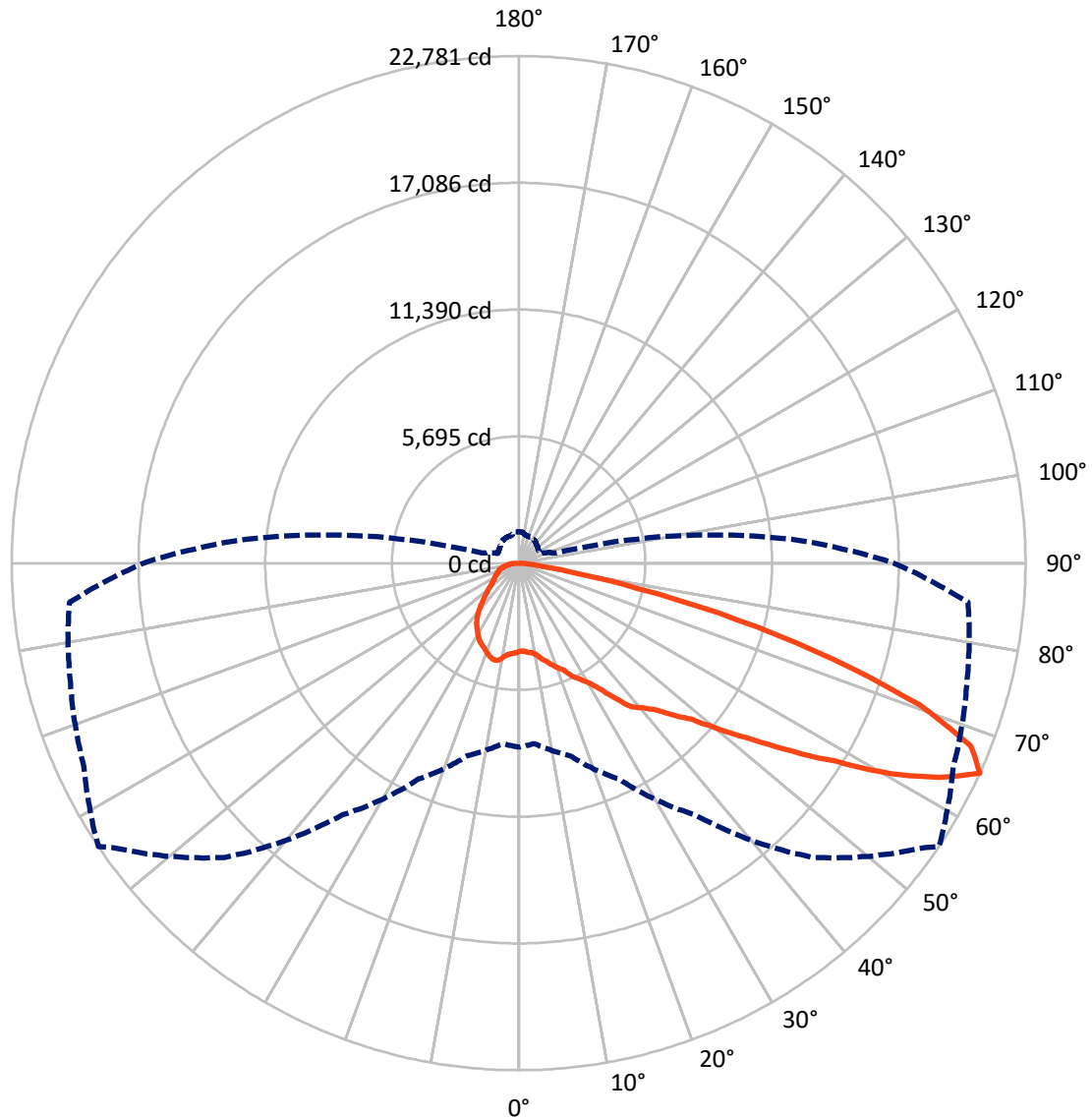
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P477324
CATALOG NUMBER: IFLD-L-SA7B-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P477324

CATALOG NUMBER: IFLD-L-SA7B-730-U-T3

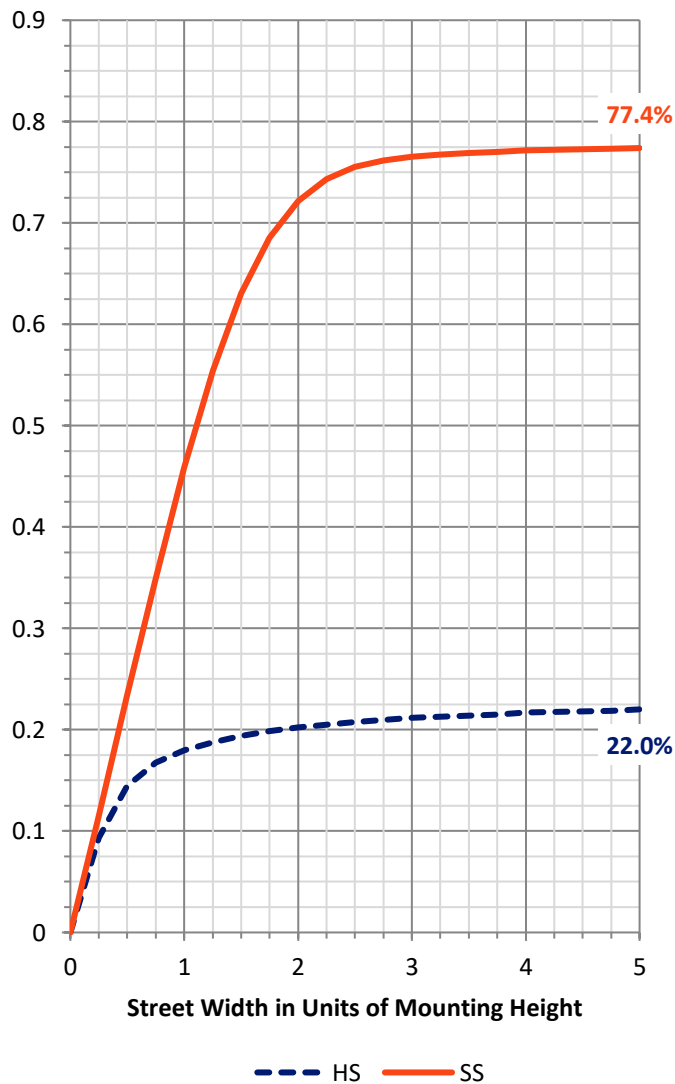
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7407.3	0.0	7407.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	25621.6	0.0	25621.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	33028.9	0.0	33028.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	1.2
10°-20°	1275.7	3.9
20°-30°	2271.4	6.9
30°-40°	3401.4	10.3
40°-50°	5039.5	15.3
50°-60°	7765.2	23.5
60°-70°	8791.2	26.6
70°-80°	3648.4	11.0
80°-90°	443.2	1.3
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°	33028.9	100.0
0°-180°	33028.9	100.0

Coefficient of Utilization



REPORT NUMBER: P477324

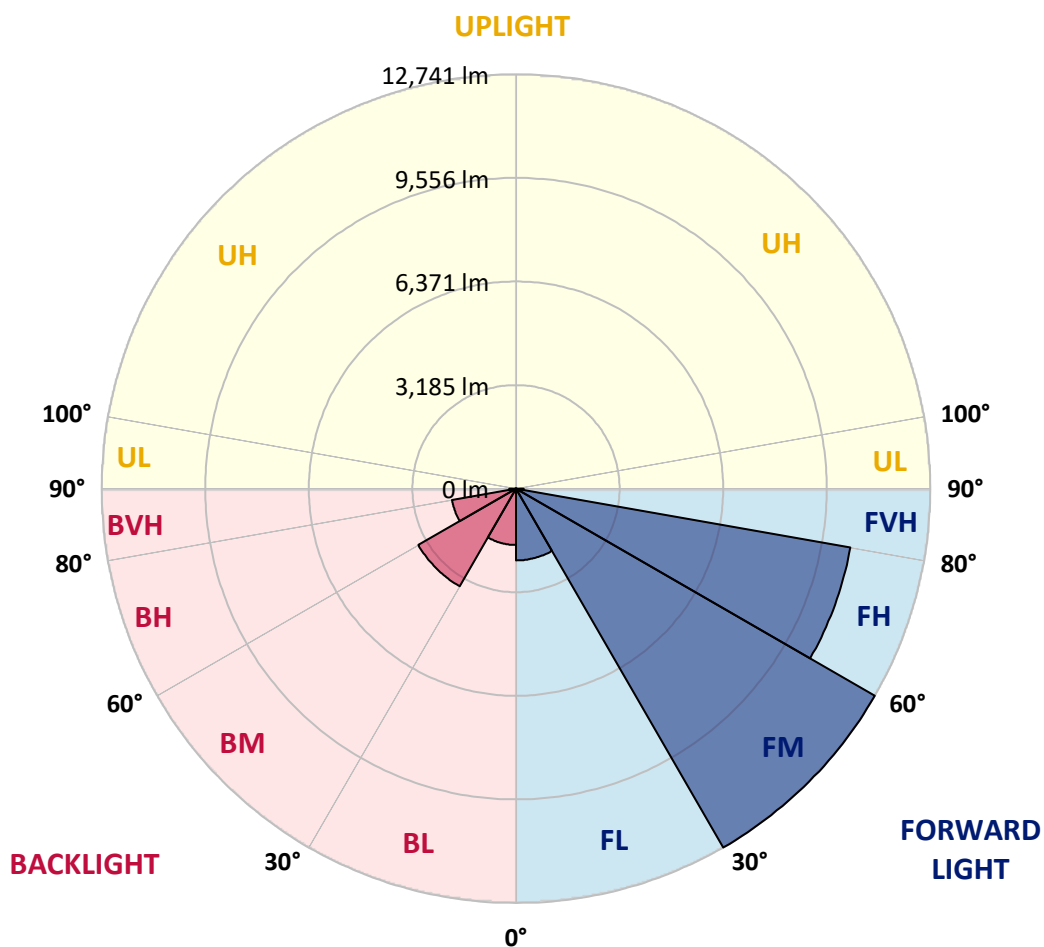
CATALOG NUMBER: IFLD-L-SA7B-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2207.3	6.7			
FM (30°-60°)	12741.1	38.6			
FH (60°-80°)	10439.4	31.6			G4/12000
FVH (80°-90°)	233.8	0.7			G3/500
BL (0°-30°)	1732.6	5.2	B3/2500		
BM (30°-60°)	3465.0	10.5	B3/5000		
BH (60°-80°)	2000.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	209.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P477324
 CATALOG NUMBER: IFLD-L-SA7B-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4
2.5°	3860.7	3881.5	3867.6	3909.1	3943.7	3943.7	3971.3	3950.6	3978.2	4016.3
5°	3988.6	3905.7	3950.6	3971.3	3961.0	3978.2	3950.6	4019.7	3974.8	4047.4
7.5°	4019.7	4050.8	4088.8	4054.3	4085.4	4068.1	4071.6	4061.2	4037.0	4095.8
10°	4247.8	4202.9	4289.3	4237.5	4230.6	4223.6	4209.8	4158.0	4216.7	4220.2
12.5°	4510.5	4469.0	4465.6	4424.1	4479.4	4379.2	4399.9	4372.3	4382.6	4396.5
15°	4700.6	4683.3	4762.8	4714.4	4641.9	4596.9	4645.3	4569.3	4607.3	4600.4
17.5°	5077.4	5073.9	5015.1	4935.6	4894.2	4828.5	4818.1	4787.0	4814.7	4800.8
20°	5340.0	5378.1	5388.4	5295.1	5136.1	5063.5	5046.2	5022.1	5053.2	5042.8
22.5°	5741.0	5682.2	5727.1	5564.7	5505.9	5333.1	5270.9	5236.3	5385.0	5346.9
25°	5996.7	6059.0	6014.0	5958.7	5827.4	5613.1	5568.2	5644.2	5703.0	5661.5
27.5°	6573.9	6511.7	6470.3	6304.4	6217.9	5993.3	5941.4	5913.8	5927.6	5951.8
30°	7012.9	7047.5	6954.1	6836.6	6618.9	6390.8	6269.8	6245.6	6197.2	6155.7
32.5°	7638.5	7586.7	7531.4	7455.3	7268.7	6968.0	6850.5	6760.6	6615.4	6421.9
35°	7939.2	8087.8	8046.3	7842.4	7700.7	7586.7	7552.1	7413.8	7292.9	6988.7
37.5°	8440.4	8502.6	8443.8	8378.2	8312.5	8191.5	8150.0	8188.1	7949.6	7448.4
40°	8765.3	8896.6	9017.6	8834.4	8820.6	8844.8	8589.0	8544.1	8053.3	7790.6
42.5°	9428.9	9484.2	9508.4	9501.5	9581.0	9581.0	9093.6	8996.8	8647.7	8433.5
45°	10306.8	10351.7	10438.1	10500.3	10410.5	10455.4	9760.7	9722.7	9411.6	9370.1
47.5°	11067.2	11174.3	11367.9	11551.1	11668.6	11516.5	10756.1	10486.5	10407.0	10655.9
50°	11730.8	11602.9	12055.7	12242.3	12757.3	13009.6	11855.2	11748.1	11620.2	12097.2
52.5°	11796.5	11969.3	12608.7	12982.0	14043.1	14509.7	13203.2	13158.3	13002.7	13552.3
55°	12266.5	12245.8	12888.7	13697.5	14959.0	15743.6	14959.0	14931.4	14592.6	15114.6
57.5°	12187.0	12397.9	12906.0	14036.2	15785.1	17067.4	16994.8	16804.7	16331.2	16756.3
60°	11917.4	11972.7	12591.4	14025.8	16265.5	18425.7	19193.0	19231.0	18263.3	18602.0
62.5°	10389.7	10517.6	11302.2	12923.2	15923.3	19362.4	21339.4	21204.6	20430.4	20043.3
65°	8264.1	8136.2	8951.9	10704.3	13794.2	18698.8	22279.5	22780.7	21564.1	20855.5
67.5°	5067.0	5035.9	5820.5	7365.4	10320.6	15913.0	21529.5	21920.1	21249.5	20682.7
70°	2609.5	2530.0	3020.8	4109.6	6487.5	11675.5	18736.8	19120.4	19759.9	18550.1
72.5°	1216.6	1199.3	1462.0	2022.0	3304.3	6864.3	14509.7	14786.2	16134.2	15639.9
75°	715.5	725.8	874.5	1057.6	1610.7	3235.1	9629.3	10165.1	11627.1	11271.1
77.5°	535.7	535.7	622.1	736.2	940.1	1251.2	4752.5	5461.0	6798.6	6114.3
80°	394.0	400.9	477.0	553.0	653.2	646.3	1887.2	2212.1	3117.6	2664.8
82.5°	307.6	318.0	369.8	411.3	459.7	390.6	774.2	833.0	1282.3	1019.6
85°	214.3	221.2	290.3	280.0	280.0	217.7	321.4	338.7	508.1	483.9
87.5°	51.8	58.8	141.7	155.5	117.5	65.7	100.2	114.1	183.2	210.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477324
 CATALOG NUMBER: IFLD-L-SA7B-730-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3964.4	0°	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4
4033.5	2.5°	3981.7	3995.5	4054.3	4023.2	4040.5	3967.9	4026.6	3978.2	4019.7	3999.0
4064.6	5°	4092.3	4061.2	4095.8	4071.6	4071.6	4099.2	4140.7	4109.6	4171.8	4144.1
4088.8	7.5°	4137.2	4140.7	4161.4	4164.9	4147.6	4234.0	4237.5	4227.1	4285.9	4272.0
4254.7	10°	4247.8	4251.3	4289.3	4310.0	4292.8	4323.9	4289.3	4261.7	4258.2	4244.4
4386.1	12.5°	4424.1	4458.7	4451.8	4469.0	4472.5	4341.2	4261.7	4126.9	4109.6	4126.9
4579.6	15°	4586.6	4572.7	4579.6	4614.2	4469.0	4258.2	4116.5	4002.4	4009.3	4012.8
4832.0	17.5°	4780.1	4790.5	4800.8	4641.9	4375.7	4126.9	4002.4	4002.4	3967.9	3981.7
5008.2	20°	5001.3	4959.8	4870.0	4645.3	4213.3	3974.8	3936.8	3936.8	3895.3	3867.6
5198.3	22.5°	5174.1	5091.2	4956.4	4538.2	4068.1	3916.0	3822.7	3757.0	3708.6	3653.3
5409.2	25°	5284.7	5239.8	4977.1	4427.6	3961.0	3760.5	3622.2	3522.0	3459.8	3387.2
5575.1	27.5°	5454.1	5367.7	5035.9	4299.7	3843.4	3605.0	3390.7	3235.1	3117.6	3041.6
5827.4	30°	5682.2	5557.8	4994.4	4116.5	3663.7	3335.4	3083.1	2882.6	2747.8	2685.6
6065.9	32.5°	5868.9	5706.4	4959.8	3950.6	3463.2	3062.3	2727.0	2523.1	2447.1	2367.6
6466.8	35°	6224.9	5903.4	4935.6	3857.3	3283.5	2789.3	2436.7	2260.4	2163.7	2046.2
6705.3	37.5°	6497.9	6245.6	4876.9	3663.7	3051.9	2523.1	2215.5	2056.5	1911.4	1786.9
7258.3	40°	6926.5	6722.6	4880.3	3390.7	2778.9	2295.0	2042.7	1876.8	1693.6	1586.5
8077.5	42.5°	7731.8	7192.6	4901.1	3172.9	2471.3	2108.4	1887.2	1690.1	1507.0	1417.1
9010.7	45°	8720.3	7839.0	4773.2	2975.9	2156.8	1932.1	1700.5	1503.5	1386.0	1320.3
10279.1	47.5°	9857.5	8471.5	4600.4	2606.1	1894.1	1745.4	1527.7	1413.6	1327.2	1289.2
11914.0	50°	11129.4	9377.0	4552.0	2267.4	1690.1	1586.5	1444.7	1358.3	1299.6	1254.6
13756.2	52.5°	12767.7	10431.2	4455.2	1918.3	1513.9	1458.6	1413.6	1354.9	1303.0	1265.0
15474.0	55°	14333.4	11599.5	4351.5	1631.4	1389.4	1396.4	1420.6	1368.7	1323.8	1265.0
17399.2	57.5°	16096.2	12791.9	3967.9	1420.6	1296.1	1365.3	1413.6	1354.9	1310.0	1265.0
19369.3	60°	17184.9	13462.4	3217.8	1237.4	1213.2	1306.5	1372.2	1310.0	1261.6	1278.8
20274.9	62.5°	17627.3	13109.9	2426.3	1123.3	1154.4	1227.0	1306.5	1282.3	1247.7	1313.4
20264.5	65°	16873.8	12297.6	1735.1	1026.5	1074.9	1147.5	1247.7	1275.4	1285.8	1413.6
18612.4	67.5°	15014.3	10707.7	1275.4	947.0	992.0	1099.1	1289.2	1334.1	1327.2	1486.2
15619.2	70°	12014.2	8374.7	995.4	881.4	960.9	1137.1	1348.0	1348.0	1299.6	1486.2
11914.0	72.5°	8741.1	5903.4	857.2	805.3	881.4	1043.8	1341.1	1337.6	1275.4	1358.3
7586.7	75°	5291.6	3435.6	756.9	729.3	756.9	895.2	1282.3	1261.6	1175.2	1168.2
3649.9	77.5°	2637.2	1728.2	618.7	646.3	660.2	750.0	1126.8	1157.9	1040.4	1012.7
1441.3	80°	1112.9	753.5	515.0	556.5	556.5	632.5	936.7	957.4	864.1	812.2
570.3	82.5°	508.1	432.0	439.0	483.9	452.8	490.8	743.1	767.3	701.6	615.2
241.9	85°	214.3	245.4	335.3	380.2	335.3	318.0	511.5	539.2	456.2	380.2
103.7	87.5°	96.8	134.8	210.8	276.5	169.4	148.6	273.1	283.4	228.1	169.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



<u>180°</u>
3964.4
3961.0
4106.1
4251.3
4244.4
4133.8
4061.2
3985.2
3826.2
3622.2
3401.0
3076.1
2720.1
2364.1
2035.8
1790.4
1596.8
1424.0
1334.1
1282.3
1261.6
1261.6
1261.6
1261.6
1265.0
1296.1
1413.6
1496.6
1455.1
1310.0
1154.4
995.4
795.0
601.4
383.7
159.0
0.0

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