

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: P477511

Luminaire Tested: **IFLD-S-SA6D-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477511
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

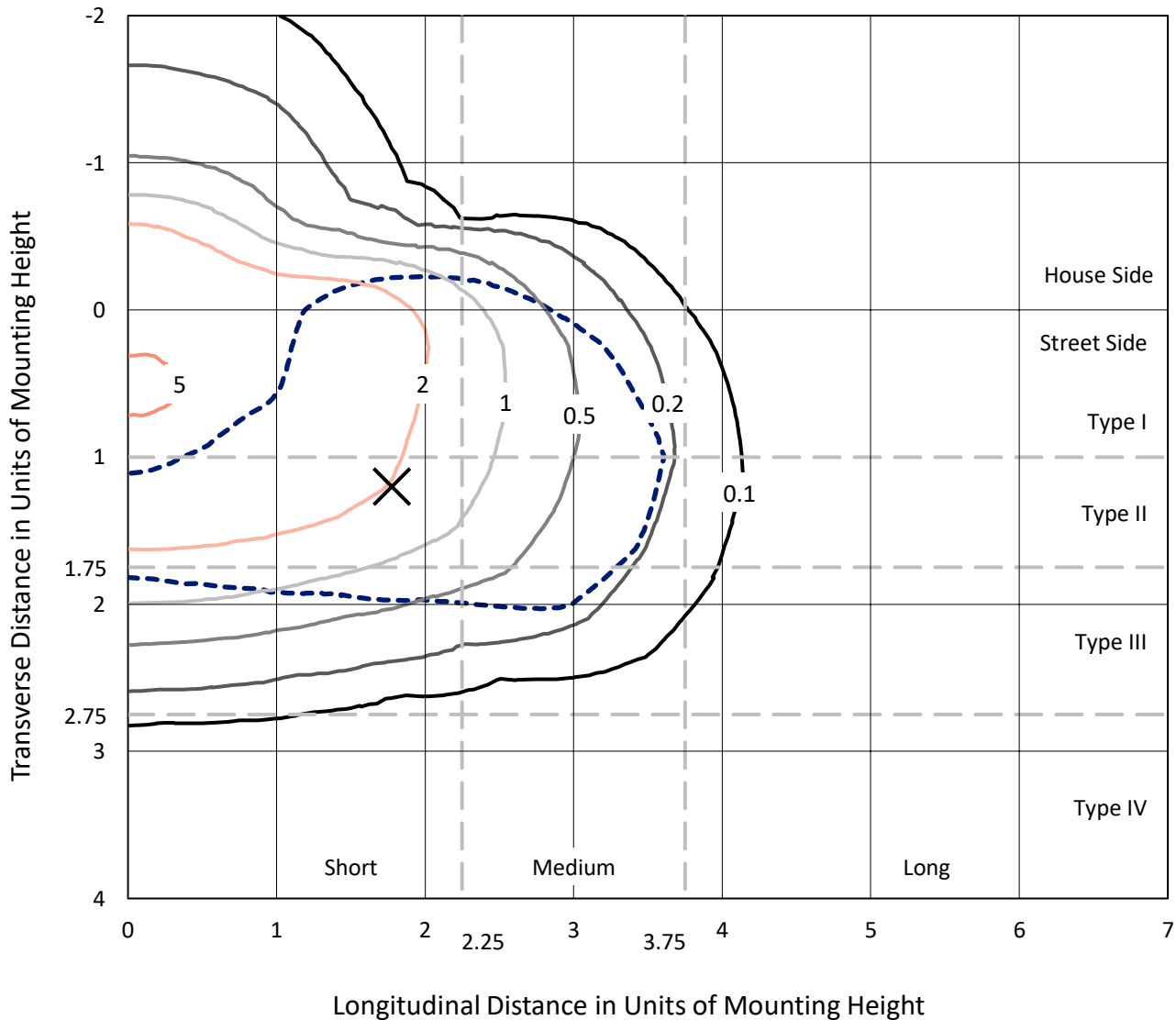
Lumens per Lamp: N/A
Luminaire Lumens: 34232.6 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

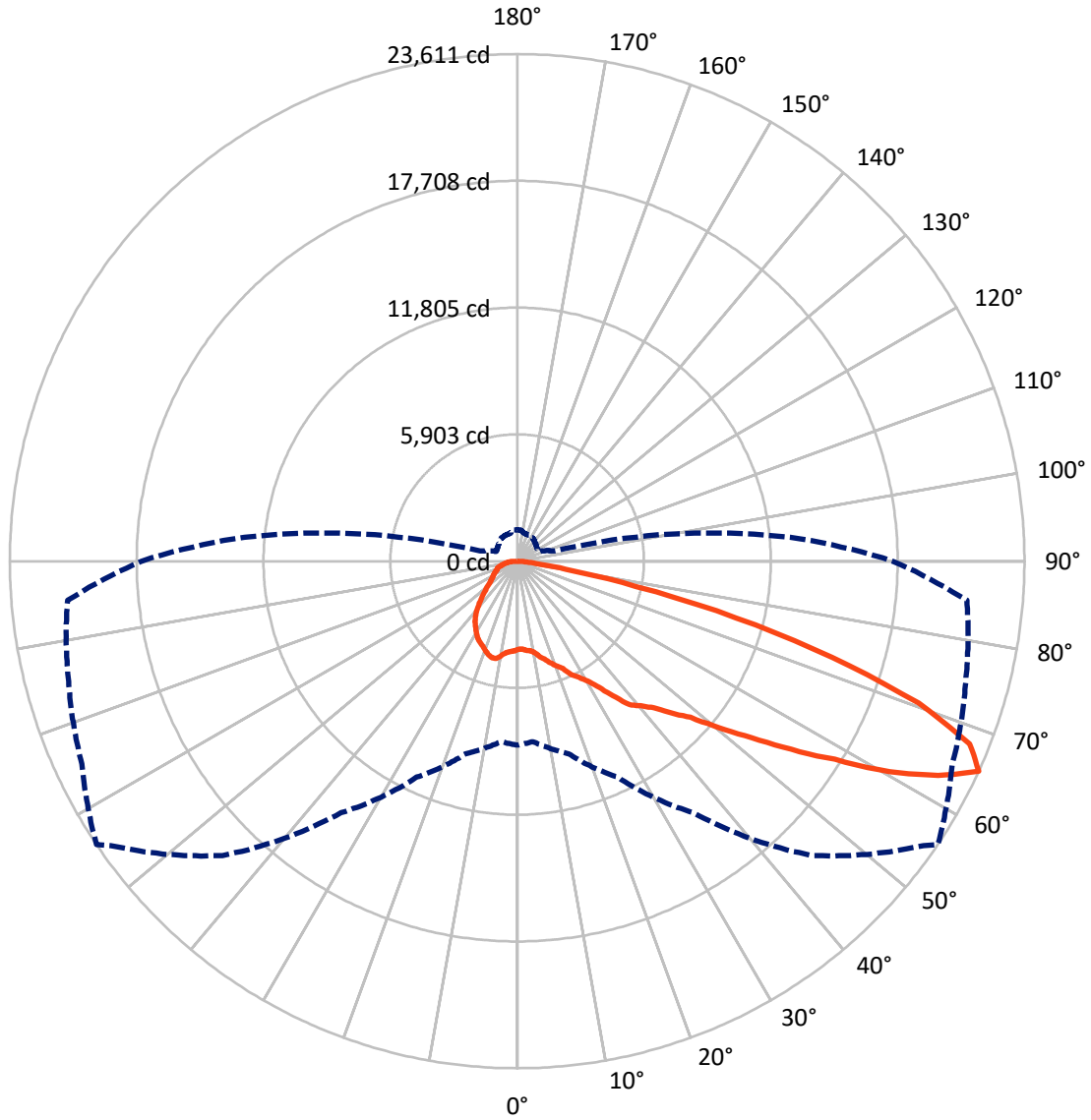
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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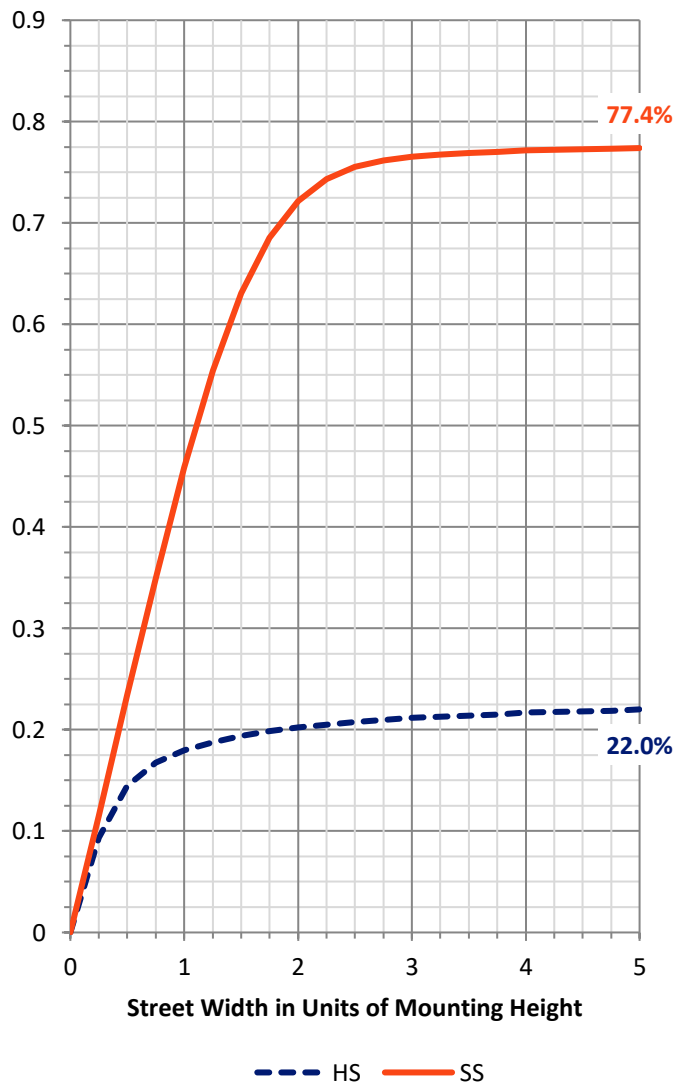
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7677.3	0.0	7677.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	26555.3	0.0	26555.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	34232.6	0.0	34232.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.2	1.2
10°-20°	1322.2	3.9
20°-30°	2354.2	6.9
30°-40°	3525.3	10.3
40°-50°	5223.2	15.3
50°-60°	8048.2	23.5
60°-70°	9111.6	26.6
70°-80°	3781.4	11.0
80°-90°	459.4	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°	34232.6	100.0
0°-180°	34232.6	100.0

Coefficient of Utilization



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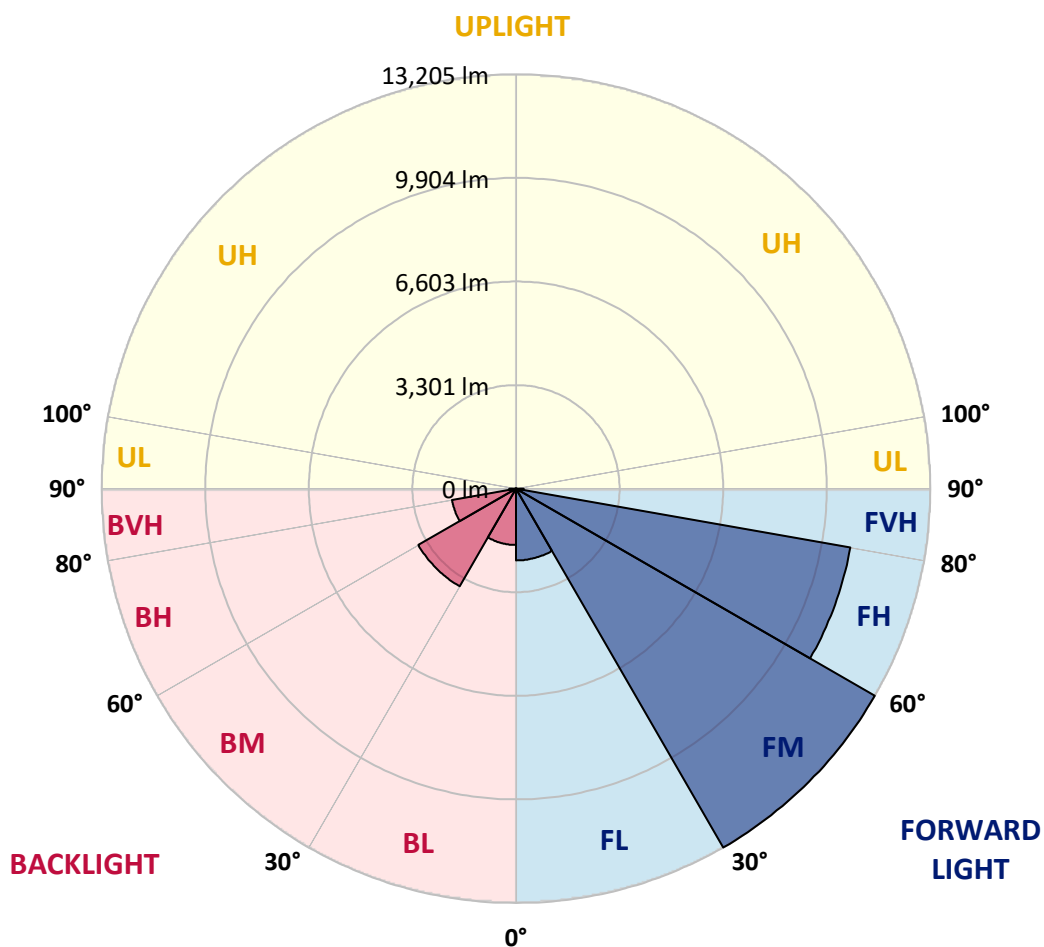
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2287.7	6.7			
FM (30°-60°)	13205.4	38.6			
FH (60°-80°)	10819.8	31.6			G4/12000
FVH (80°-90°)	242.3	0.7			G3/500
BL (0°-30°)	1795.8	5.2	B3/2500		
BM (30°-60°)	3591.3	10.5	B3/5000		
BH (60°-80°)	2073.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	217.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9
2.5°	4001.4	4022.9	4008.6	4051.6	4087.4	4087.4	4116.1	4094.6	4123.2	4162.6
5°	4134.0	4048.0	4094.6	4116.1	4105.3	4123.2	4094.6	4166.2	4119.6	4194.9
7.5°	4166.2	4198.4	4237.9	4202.0	4234.3	4216.4	4219.9	4209.2	4184.1	4245.0
10°	4402.6	4356.1	4445.6	4391.9	4384.7	4377.6	4363.2	4309.5	4370.4	4374.0
12.5°	4674.9	4631.9	4628.3	4585.3	4642.6	4538.8	4560.3	4531.6	4542.3	4556.7
15°	4871.9	4854.0	4936.4	4886.2	4811.0	4764.4	4814.6	4735.8	4775.2	4768.0
17.5°	5262.4	5258.8	5197.9	5115.5	5072.5	5004.5	4993.7	4961.5	4990.1	4975.8
20°	5534.6	5574.0	5584.8	5488.1	5323.3	5248.1	5230.1	5205.1	5237.3	5226.6
22.5°	5950.2	5889.3	5935.9	5767.5	5706.6	5527.5	5463.0	5427.2	5581.2	5541.8
25°	6215.3	6279.8	6233.2	6175.9	6039.7	5817.6	5771.1	5849.9	5910.8	5867.8
27.5°	6813.5	6749.0	6706.0	6534.1	6444.5	6211.7	6158.0	6129.3	6143.6	6168.7
30°	7268.5	7304.3	7207.6	7085.8	6860.1	6623.7	6498.3	6473.2	6423.0	6380.1
32.5°	7916.9	7863.1	7805.8	7727.0	7533.6	7221.9	7100.1	7007.0	6856.5	6655.9
35°	8228.5	8382.6	8339.6	8128.2	7981.3	7863.1	7827.3	7684.0	7558.6	7243.4
37.5°	8748.0	8812.4	8751.5	8683.5	8615.4	8490.0	8447.0	8486.4	8239.3	7719.8
40°	9084.7	9220.8	9346.2	9156.3	9142.0	9167.1	8902.0	8855.4	8346.7	8074.5
42.5°	9772.5	9829.8	9854.9	9847.7	9930.1	9930.1	9425.0	9324.7	8962.9	8740.8
45°	10682.4	10729.0	10818.5	10883.0	10789.9	10836.4	10116.4	10077.0	9754.6	9711.6
47.5°	11470.5	11581.5	11782.2	11972.0	12093.8	11936.2	11148.1	10868.7	10786.3	11044.2
50°	12158.3	12025.8	12495.0	12688.5	13222.2	13483.7	12287.3	12176.2	12043.7	12538.0
52.5°	12226.4	12405.5	13068.2	13455.1	14554.9	15038.5	13684.4	13637.8	13476.6	14046.2
55°	12713.6	12692.1	13358.4	14196.6	15504.2	16317.3	15504.2	15475.5	15124.4	15665.4
57.5°	12631.2	12849.7	13376.3	14547.7	16360.3	17689.4	17614.1	17417.1	16926.3	17366.9
60°	12351.7	12409.1	13050.3	14536.9	16858.3	19097.2	19892.5	19931.9	18928.8	19279.9
62.5°	10768.4	10900.9	11714.1	13394.2	16503.6	20068.0	22117.1	21977.4	21174.9	20773.7
65°	8565.3	8432.7	9278.1	11094.4	14296.9	19380.2	23091.5	23610.9	22349.9	21615.5
67.5°	5251.6	5219.4	6032.6	7633.9	10696.7	16492.9	22314.1	22718.9	22023.9	21436.4
70°	2704.6	2622.2	3130.9	4259.3	6724.0	12101.0	19419.6	19817.2	20480.0	19226.2
72.5°	1261.0	1243.1	1515.3	2095.6	3424.7	7114.4	15038.5	15325.0	16722.1	16209.9
75°	741.5	752.3	906.3	1096.2	1669.3	3353.0	9980.3	10535.5	12050.8	11681.9
77.5°	555.3	555.3	644.8	763.0	974.4	1296.8	4925.7	5660.0	7046.4	6337.1
80°	408.4	415.5	494.4	573.2	677.1	669.9	1955.9	2292.7	3231.2	2761.9
82.5°	318.8	329.6	383.3	426.3	476.4	404.8	802.4	863.3	1329.0	1056.8
85°	222.1	229.3	300.9	290.2	290.2	225.7	333.2	351.1	526.6	501.5
87.5°	53.7	60.9	146.9	161.2	121.8	68.1	103.9	118.2	189.9	218.5
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4108.9	0°	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9	4108.9
4180.5	2.5°	4126.8	4141.1	4202.0	4169.8	4187.7	4112.5	4173.4	4123.2	4166.2	4144.7
4212.8	5°	4241.4	4209.2	4245.0	4219.9	4219.9	4248.6	4291.6	4259.3	4323.8	4295.2
4237.9	7.5°	4288.0	4291.6	4313.1	4316.7	4298.7	4388.3	4391.9	4381.1	4442.0	4427.7
4409.8	10°	4402.6	4406.2	4445.6	4467.1	4449.2	4481.4	4445.6	4417.0	4413.4	4399.1
4545.9	12.5°	4585.3	4621.2	4614.0	4631.9	4635.5	4499.4	4417.0	4277.3	4259.3	4277.3
4746.5	15°	4753.7	4739.4	4746.5	4782.4	4631.9	4413.4	4266.5	4148.3	4155.5	4159.0
5008.0	17.5°	4954.3	4965.1	4975.8	4811.0	4535.2	4277.3	4148.3	4148.3	4112.5	4126.8
5190.7	20°	5183.6	5140.6	5047.4	4814.6	4366.8	4119.6	4080.2	4080.2	4037.2	4008.6
5387.8	22.5°	5362.7	5276.7	5137.0	4703.5	4216.4	4058.7	3962.0	3894.0	3843.8	3786.5
5606.3	25°	5477.3	5430.8	5158.5	4588.9	4105.3	3897.5	3754.2	3650.4	3585.9	3510.6
5778.2	27.5°	5652.9	5563.3	5219.4	4456.4	3983.5	3736.3	3514.2	3353.0	3231.2	3152.4
6039.7	30°	5889.3	5760.3	5176.4	4266.5	3797.2	3456.9	3195.4	2987.6	2847.9	2783.4
6286.9	32.5°	6082.7	5914.4	5140.6	4094.6	3589.5	3173.9	2826.4	2615.1	2536.3	2453.9
6702.5	35°	6451.7	6118.6	5115.5	3997.8	3403.2	2890.9	2525.5	2342.8	2242.5	2120.7
6949.6	37.5°	6734.7	6473.2	5054.6	3797.2	3163.2	2615.1	2296.2	2131.5	1981.0	1852.0
7522.8	40°	7178.9	6967.6	5058.2	3514.2	2880.2	2378.6	2117.1	1945.2	1755.3	1644.3
8371.8	42.5°	8013.6	7454.7	5079.7	3288.5	2561.3	2185.2	1955.9	1751.7	1561.9	1468.7
9339.0	45°	9038.1	8124.6	4947.1	3084.4	2235.3	2002.5	1762.5	1558.3	1436.5	1368.4
10653.7	47.5°	10216.7	8780.2	4768.0	2701.0	1963.1	1809.1	1583.4	1465.2	1375.6	1336.2
12348.2	50°	11535.0	9718.8	4717.9	2350.0	1751.7	1644.3	1497.4	1407.8	1346.9	1300.4
14257.5	52.5°	13233.0	10811.4	4617.6	1988.2	1569.0	1511.7	1465.2	1404.3	1350.5	1311.1
16037.9	55°	14855.8	12022.2	4510.1	1690.8	1440.1	1447.2	1472.3	1418.6	1372.0	1311.1
18033.3	57.5°	16682.7	13258.1	4112.5	1472.3	1343.4	1415.0	1465.2	1404.3	1357.7	1311.1
20075.2	60°	17811.2	13953.0	3335.1	1282.5	1257.4	1354.1	1422.2	1357.7	1307.5	1325.4
21013.7	62.5°	18269.7	13587.6	2514.8	1164.2	1196.5	1271.7	1354.1	1329.0	1293.2	1361.3
21003.0	65°	17488.7	12745.8	1798.3	1063.9	1114.1	1189.3	1293.2	1321.9	1332.6	1465.2
19290.6	67.5°	15561.5	11097.9	1321.9	981.5	1028.1	1139.2	1336.2	1382.8	1375.6	1540.4
16188.4	70°	12452.0	8679.9	1031.7	913.5	995.9	1178.6	1397.1	1397.1	1346.9	1540.4
12348.2	72.5°	9059.6	6118.6	888.4	834.7	913.5	1081.9	1389.9	1386.3	1321.9	1407.8
7863.1	75°	5484.5	3560.8	784.5	755.9	784.5	927.8	1329.0	1307.5	1218.0	1210.8
3782.9	77.5°	2733.3	1791.1	641.2	669.9	684.2	777.4	1167.8	1200.1	1078.3	1049.6
1493.8	80°	1153.5	780.9	533.8	576.7	576.7	655.6	970.8	992.3	895.6	841.8
591.1	82.5°	526.6	447.8	455.0	501.5	469.3	508.7	770.2	795.3	727.2	637.6
250.8	85°	222.1	254.3	347.5	394.1	347.5	329.6	530.2	558.8	472.9	394.1
107.5	87.5°	100.3	139.7	218.5	286.6	175.5	154.0	283.0	293.7	236.4	175.5
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>
4108.9
4105.3
4255.8
4406.2
4399.1
4284.4
4209.2
4130.4
3965.6
3754.2
3525.0
3188.2
2819.3
2450.3
2110.0
1855.6
1655.0
1475.9
1382.8
1329.0
1307.5
1307.5
1307.5
1307.5
1311.1
1343.4
1465.2
1551.1
1508.1
1357.7
1196.5
1031.7
823.9
623.3
397.6
164.8
0.0

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