

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: P477941

Luminaire Tested: **IFLD-S-SA6E-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477941
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

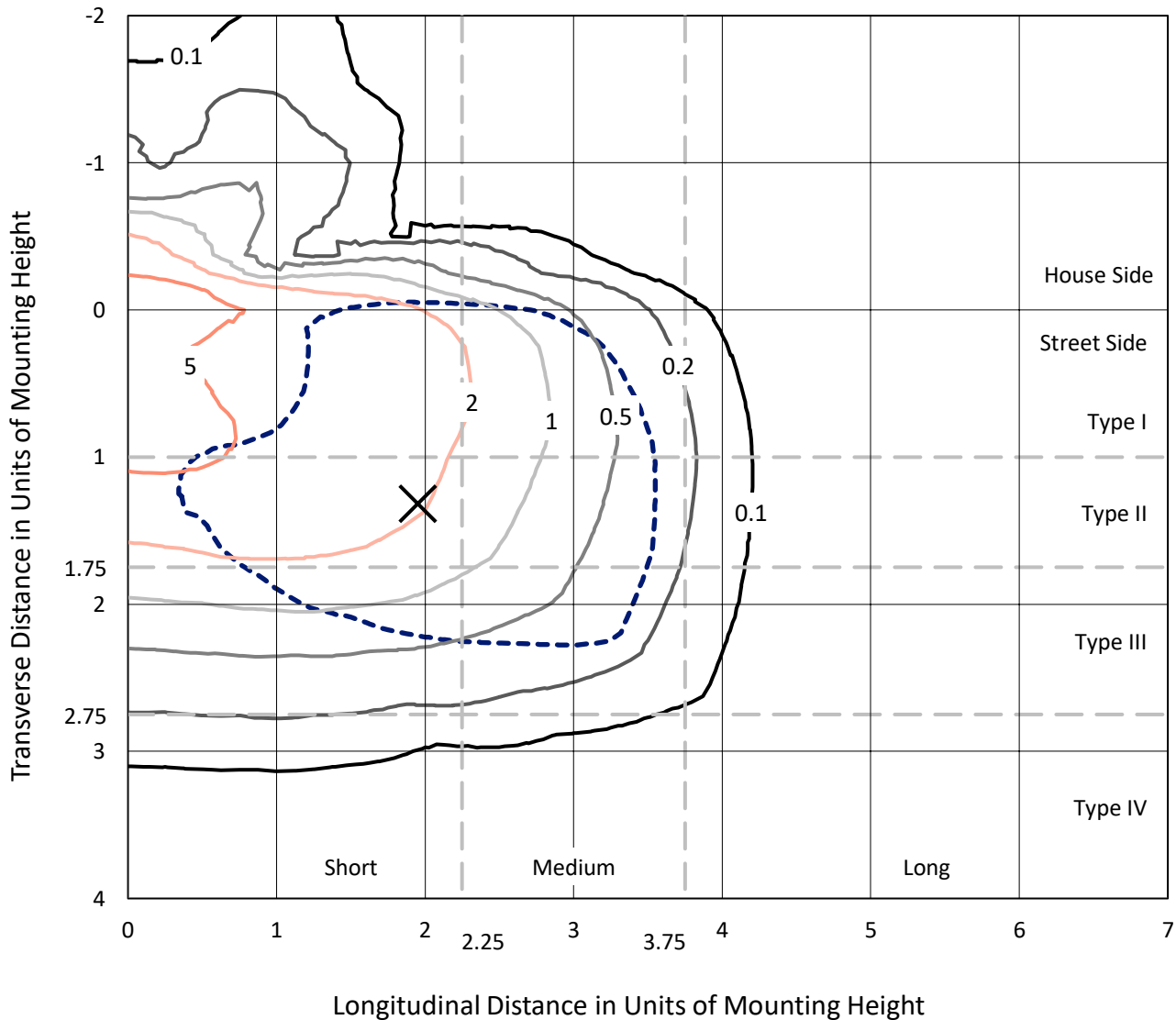
Lumens per Lamp: N/A
Luminaire Lumens: 41300.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (A_{in}): 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

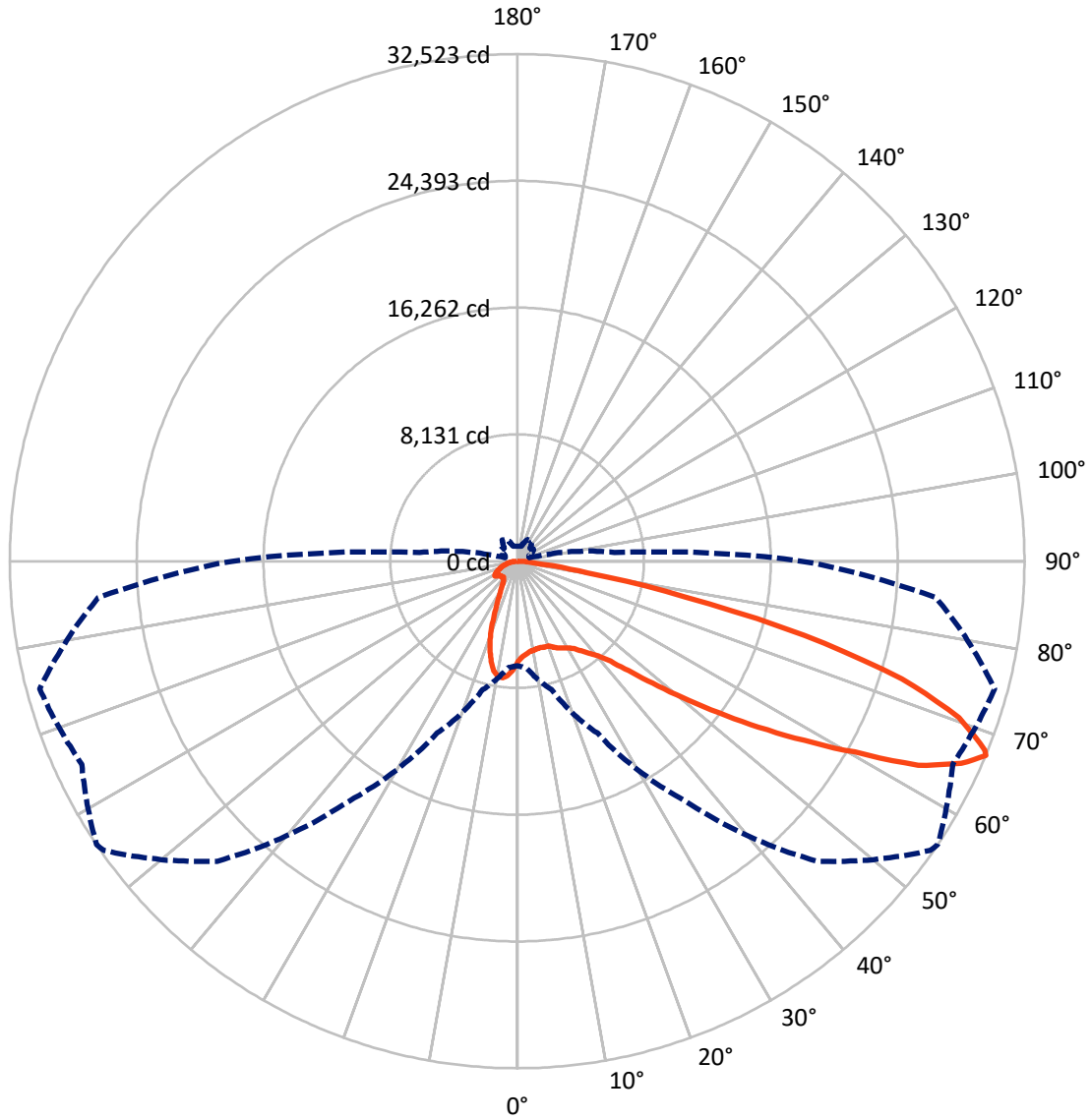
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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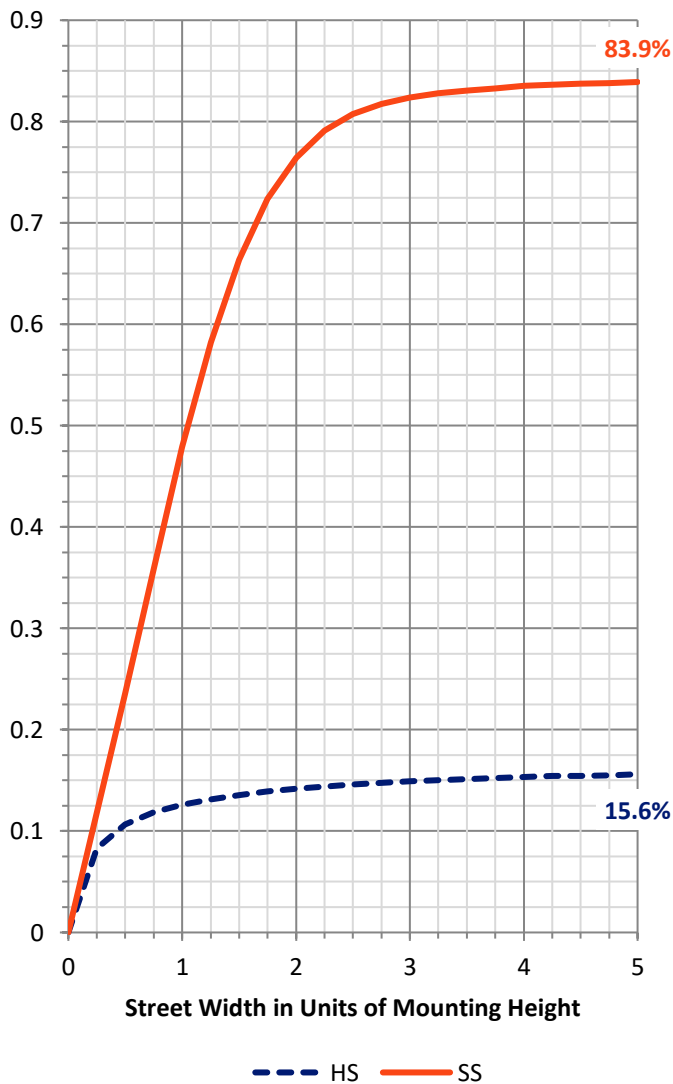
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6538.3	0.0	6538.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	34762.1	0.0	34762.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	41300.3	0.0	41300.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.1	1.5
10°-20°	1688.9	4.1
20°-30°	2648.8	6.4
30°-40°	3781.1	9.2
40°-50°	5706.8	13.8
50°-60°	9084.3	22.0
60°-70°	11613.6	28.1
70°-80°	5662.4	13.7
80°-90°	495.3	1.2
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°	41300.3	100.0
0°-180°	41300.3	100.0

Coefficient of Utilization

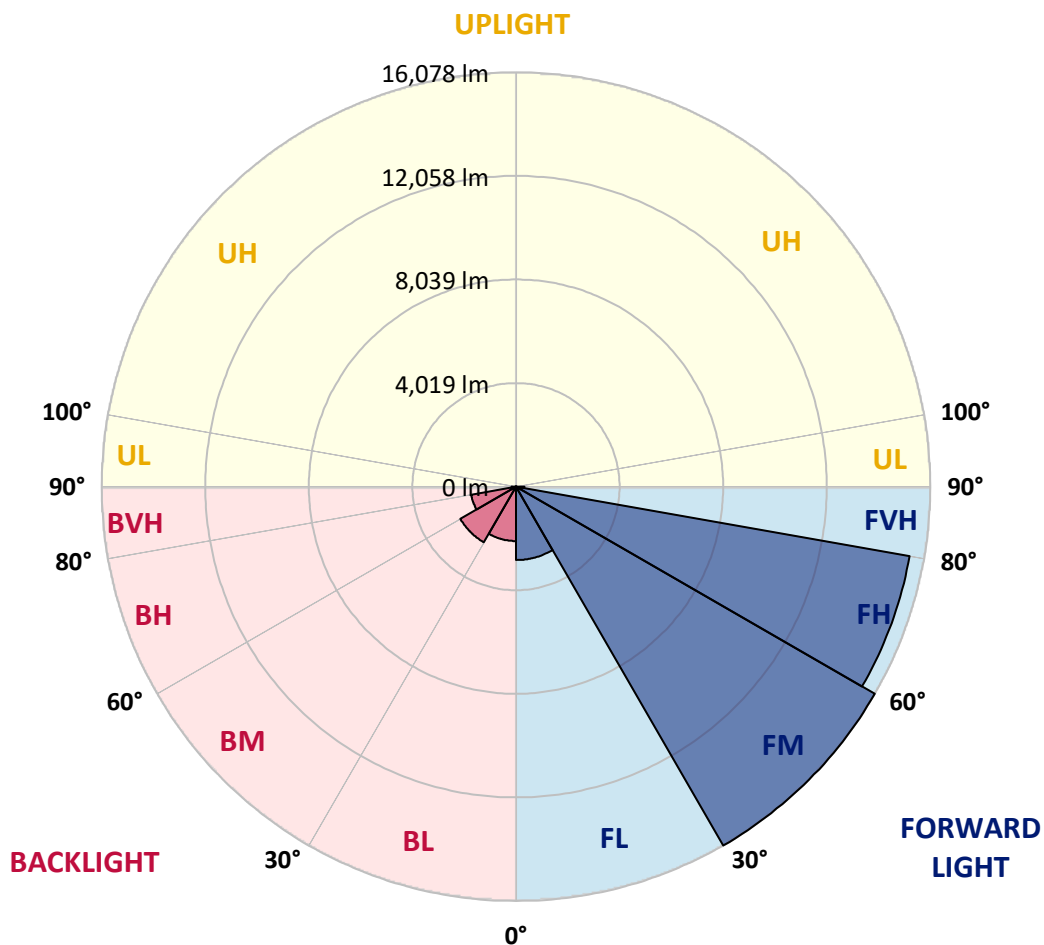


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2846.1	6.9			
FM (30°-60°)	16077.9	38.9			
FH (60°-80°)	15509.2	37.6			G5
FVH (80°-90°)	329.0	0.8			G3/500
BL (0°-30°)	2110.7	5.1	B3/2500		
BM (30°-60°)	2494.4	6.0	B2/2500		
BH (60°-80°)	1766.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	166.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2
2.5°	5903.2	5879.0	5908.1	5879.0	6009.8	6087.2	6111.4	6145.3	6266.4	6382.6
5°	5656.2	5549.7	5665.9	5704.7	5714.3	5845.1	5980.7	6004.9	6067.9	6256.7
7.5°	5244.6	5365.7	5322.1	5438.3	5559.4	5690.1	5912.9	5849.9	6082.4	6261.6
10°	5157.4	5167.1	5215.6	5259.1	5365.7	5535.2	5845.1	5806.4	6043.7	6426.2
12.5°	5244.6	5244.6	5230.1	5196.2	5317.3	5481.9	5728.9	5748.2	6121.1	6474.6
15°	5549.7	5607.8	5452.8	5477.1	5428.6	5481.9	5699.8	5743.4	6150.2	6513.4
17.5°	6295.5	6276.1	6092.1	5835.4	5622.3	5588.4	5738.6	5787.0	6121.1	6624.8
20°	7021.9	6983.1	6663.5	6397.2	5975.9	5777.3	5801.5	5806.4	6169.6	6697.4
22.5°	7830.6	7932.3	7583.6	7041.2	6518.2	6024.3	5927.4	6004.9	6280.9	6736.2
25°	9099.4	8881.5	8581.2	7869.3	7026.7	6406.9	6135.7	6174.4	6387.5	6833.0
27.5°	10014.6	9927.5	9457.7	8881.5	7738.6	6707.1	6247.0	6319.7	6581.2	6828.2
30°	10896.0	10896.0	10610.3	9748.3	8489.2	7210.7	6484.3	6450.4	6489.2	6818.5
32.5°	11927.5	11787.1	11375.4	10804.0	9433.5	7670.8	6673.2	6682.9	6682.9	6997.7
35°	12469.9	12697.5	12421.4	11491.7	10155.1	8435.9	7128.4	7055.8	7002.5	7196.2
37.5°	13264.1	13399.7	13109.1	12561.9	11051.0	9055.8	7530.3	7472.2	7162.3	7351.2
40°	13743.5	13719.3	13709.6	13457.8	12237.4	9787.0	8121.2	7971.0	7554.6	7898.4
42.5°	14014.7	13966.3	14561.9	14406.9	13356.1	10862.1	8862.1	8779.8	8319.7	8871.8
45°	14319.8	14678.1	15167.2	15603.1	14658.8	12373.0	10116.3	10000.1	9588.5	10290.7
47.5°	14586.1	15026.8	15651.5	16116.4	15835.5	14014.7	11666.0	11695.0	11423.9	12145.4
50°	15031.6	15075.2	15922.7	16862.2	17080.1	15530.4	13748.3	13699.9	13578.8	14591.0
52.5°	14896.0	15026.8	16097.0	17298.0	17656.4	17133.4	15985.6	16130.9	15971.1	17244.7
55°	12687.8	13080.0	15990.5	17758.1	19022.0	18944.5	18862.2	18765.3	18755.7	20227.8
57.5°	11685.4	12005.0	14087.3	18266.5	20484.5	21055.9	21588.6	21695.2	21690.3	23467.6
60°	11026.8	11356.1	13317.3	17990.5	21729.1	23821.1	24842.9	24857.4	24828.4	26930.1
62.5°	9738.6	10058.2	11985.6	16479.6	22072.9	26373.2	28649.2	28838.1	27506.4	29913.2
65°	8189.0	8450.5	10150.2	14169.6	21157.6	27995.5	31511.2	31288.5	29763.0	31617.8
67°	6697.4	6871.7	8527.9	12164.8	18765.3	27215.8	32339.3	32523.4	30804.2	31690.4
67.5°	6271.3	6431.1	7995.2	11482.0	17854.9	26625.0	32368.4	32339.3	30823.6	31705.0
70°	4353.6	4421.4	5448.0	7898.4	13152.7	22494.2	30005.2	30073.0	29530.6	29985.8
72.5°	2886.2	2987.9	3641.7	4978.3	7753.1	16368.2	25080.2	25806.6	25462.8	24586.2
75°	1859.6	1917.7	2382.6	2963.7	3816.0	9322.1	18528.1	19012.3	18223.0	15206.0
77.5°	1041.2	1104.1	1438.3	1801.5	1859.6	3879.0	10406.9	11007.4	9327.0	6460.1
80°	648.9	731.2	1084.8	1070.2	886.2	1423.7	4290.6	4595.7	3728.9	2222.8
82.5°	489.1	552.1	837.8	750.6	498.8	634.4	1607.8	1724.0	1365.6	857.2
85°	334.1	421.3	605.3	464.9	261.5	305.1	639.2	687.7	624.7	416.5
87.5°	121.1	179.2	314.8	232.4	116.2	92.0	208.2	232.4	222.8	188.9
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6426.2	0°	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2	6426.2
6484.3	2.5°	6576.3	6644.1	6678.0	6876.6	6958.9	6944.4	6963.8	6992.8	7021.9	7060.6
6566.7	5°	6629.6	6837.8	6949.2	7181.7	7336.6	7268.8	7356.0	7331.8	7297.9	7293.1
6716.8	7.5°	6803.9	7070.3	7404.4	7467.4	7535.2	7365.7	7220.4	7021.9	6973.4	6803.9
6842.7	10°	7113.9	7331.8	7738.6	7762.8	7462.6	7026.7	6702.3	6290.6	6285.8	6038.8
7036.4	12.5°	7409.3	7656.3	7985.6	7845.1	7128.4	6532.8	6004.9	5554.5	5365.7	5239.8
7152.6	15°	7593.3	8000.1	8174.4	7569.1	6542.4	5738.6	5055.7	4571.5	4377.8	4285.8
7297.9	17.5°	7762.8	8329.4	8251.9	7084.8	5820.9	4920.2	4106.6	3685.3	3632.0	3564.2
7530.3	20°	7995.2	8450.5	7975.9	6455.3	5002.5	3864.4	3346.3	3142.9	3191.3	3220.4
7554.6	22.5°	8213.2	8513.4	7627.2	5767.6	3951.6	3060.6	2803.9	2847.5	2920.1	3017.0
7612.7	25°	8310.0	8615.1	7157.5	4818.5	3007.3	2576.3	2518.2	2590.8	2711.9	2716.7
7695.0	27.5°	8373.0	8542.5	6590.9	3893.5	2377.8	2251.8	2339.0	2392.3	2406.8	2464.9
7869.3	30°	8484.4	8392.3	5874.2	2784.5	1995.2	2000.0	2111.4	2111.4	2111.4	2155.0
8043.7	32.5°	8678.1	8290.6	5036.4	2033.9	1719.1	1874.1	1845.1	1835.4	1816.0	1762.7
8266.4	35°	8799.1	8014.6	3975.8	1506.1	1544.8	1719.1	1709.5	1559.3	1307.5	1181.6
8833.0	37.5°	9050.9	7874.2	2925.0	1162.2	1443.1	1641.7	1588.4	1225.2	949.2	828.1
9535.2	40°	9593.3	7782.2	2024.2	1017.0	1375.3	1602.9	1418.9	1046.0	726.4	513.3
10620.0	42.5°	10256.8	7787.0	1375.3	958.8	1380.2	1685.2	1365.6	895.9	513.3	411.6
12067.9	45°	11147.8	7714.4	944.3	958.8	1467.3	1820.8	1399.5	813.6	498.8	523.0
13883.9	47.5°	12106.7	7777.3	702.2	871.7	1481.9	1825.7	1278.5	799.0	479.4	605.3
15859.7	50°	13225.3	7840.3	581.1	803.9	1486.7	1767.6	1176.8	779.7	498.8	639.2
18126.1	52.5°	14377.9	8038.8	494.0	760.3	1544.8	1743.4	1176.8	808.7	498.8	556.9
21012.3	55°	16097.0	8547.3	711.9	949.2	1757.9	1903.2	1448.0	1133.2	697.3	716.7
23777.5	57.5°	17995.4	9070.3	794.2	997.6	1806.3	1714.3	1559.3	1249.4	736.1	740.9
25927.6	60°	19244.8	9089.7	789.4	973.4	1690.1	1481.9	1525.4	1317.2	750.6	634.4
27259.4	62.5°	19743.6	8498.9	823.3	973.4	1573.9	1385.0	1564.2	1418.9	774.8	794.2
27637.1	65°	19177.0	7278.5	794.2	871.7	1385.0	1239.7	1573.9	1438.3	847.5	799.0
26959.1	67°	18290.8	6271.3	808.7	828.1	1288.1	1176.8	1656.2	1510.9	983.1	958.8
26605.6	67.5°	18038.9	6004.9	803.9	803.9	1254.3	1157.4	1675.6	1510.9	1002.4	992.7
23482.1	70°	15898.5	4866.9	823.3	794.2	1109.0	1099.3	1782.1	1593.2	1152.6	1162.2
17249.6	72.5°	12101.8	3690.1	818.4	794.2	963.7	1050.9	1796.6	1646.5	1254.3	1162.2
9661.1	75°	6876.6	2208.3	721.6	692.5	760.3	915.3	1680.4	1569.0	1220.4	1041.2
3859.6	77.5°	2842.6	1138.0	663.4	624.7	629.5	745.8	1399.5	1462.5	1162.2	886.2
1288.1	80°	1060.5	682.8	532.7	498.8	484.3	547.2	997.6	1167.1	992.7	726.4
566.6	82.5°	552.1	426.2	363.2	363.2	329.3	348.7	537.5	774.8	750.6	498.8
227.6	85°	280.9	242.1	208.2	203.4	184.0	164.7	271.2	460.1	431.0	276.0
101.7	87.5°	150.1	135.6	87.2	82.3	67.8	43.6	48.4	92.0	150.1	121.1
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>
6426.2
7099.4
7336.6
6862.1
6029.1
5210.7
4266.4
3598.1
3186.5
2963.7
2765.2
2518.2
2203.4
1733.7
1239.7
823.3
498.8
401.9
532.7
673.1
740.9
571.4
755.5
716.7
653.8
803.9
784.5
944.3
973.4
1075.1
1031.5
929.8
837.8
663.4
392.3
227.6
87.2
0.0

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