

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: P477784

Luminaire Tested: **IFLD-S-SA6D-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477784
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

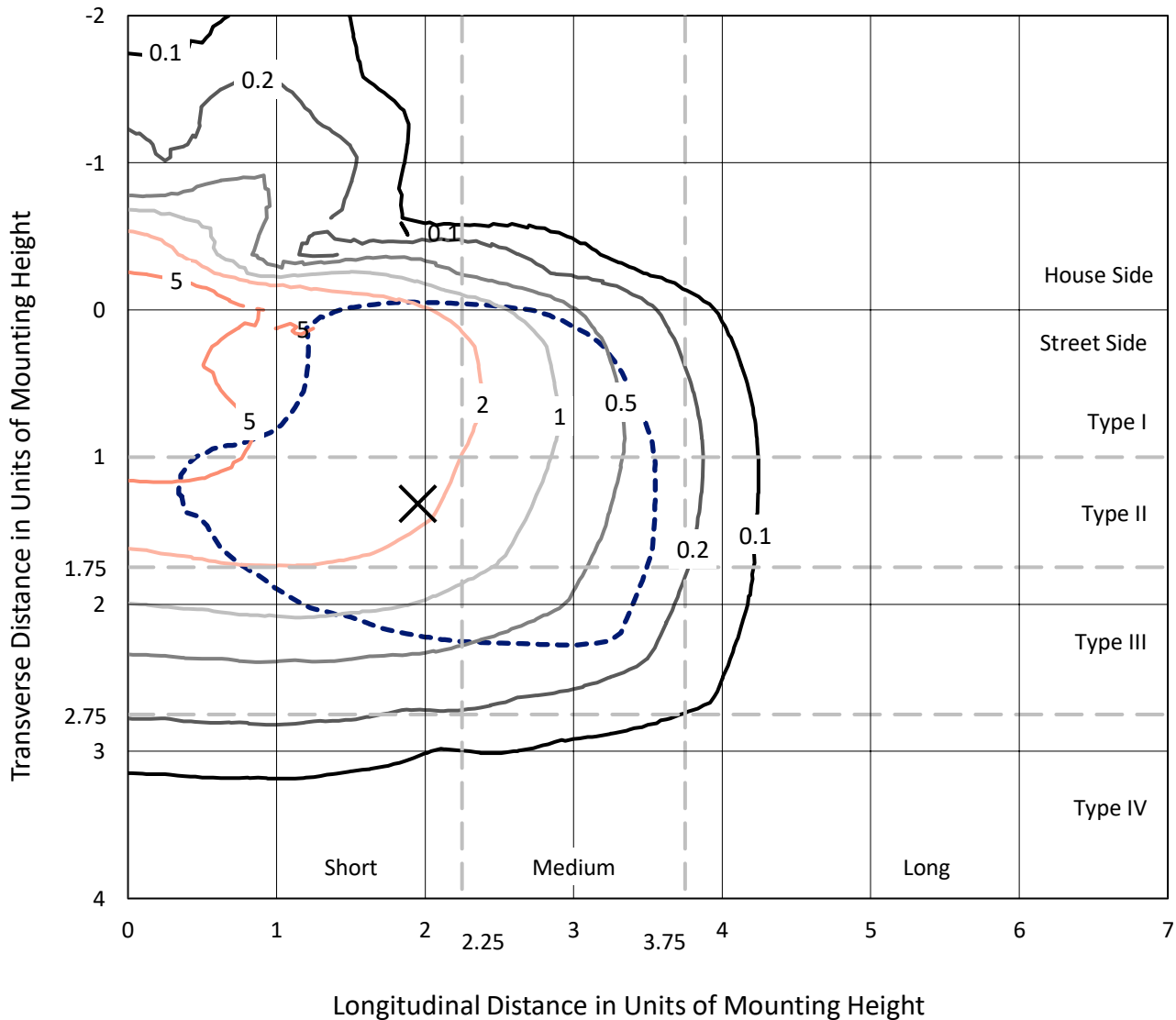
Lumens per Lamp: N/A
Luminaire Lumens: 44912.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

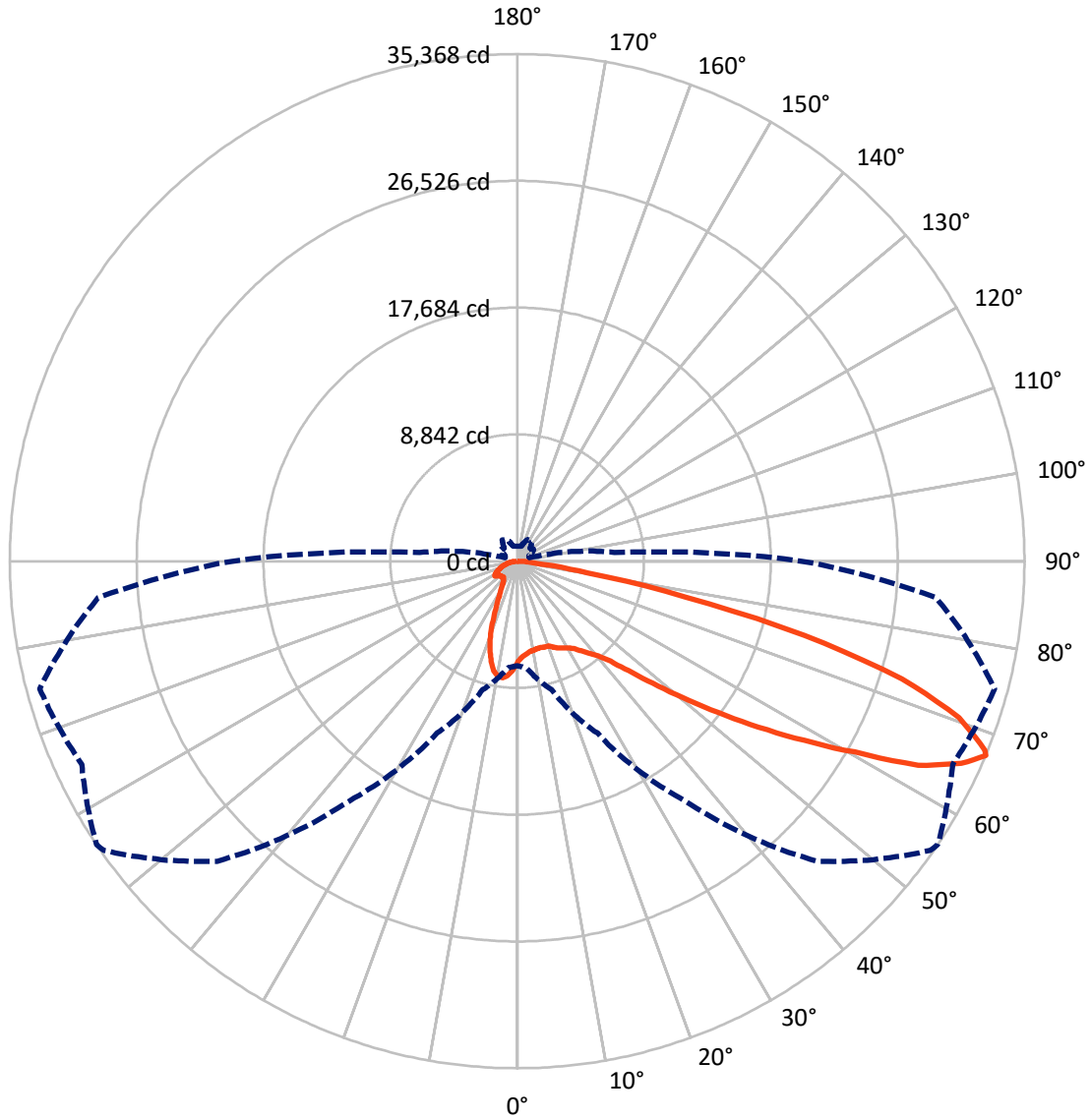
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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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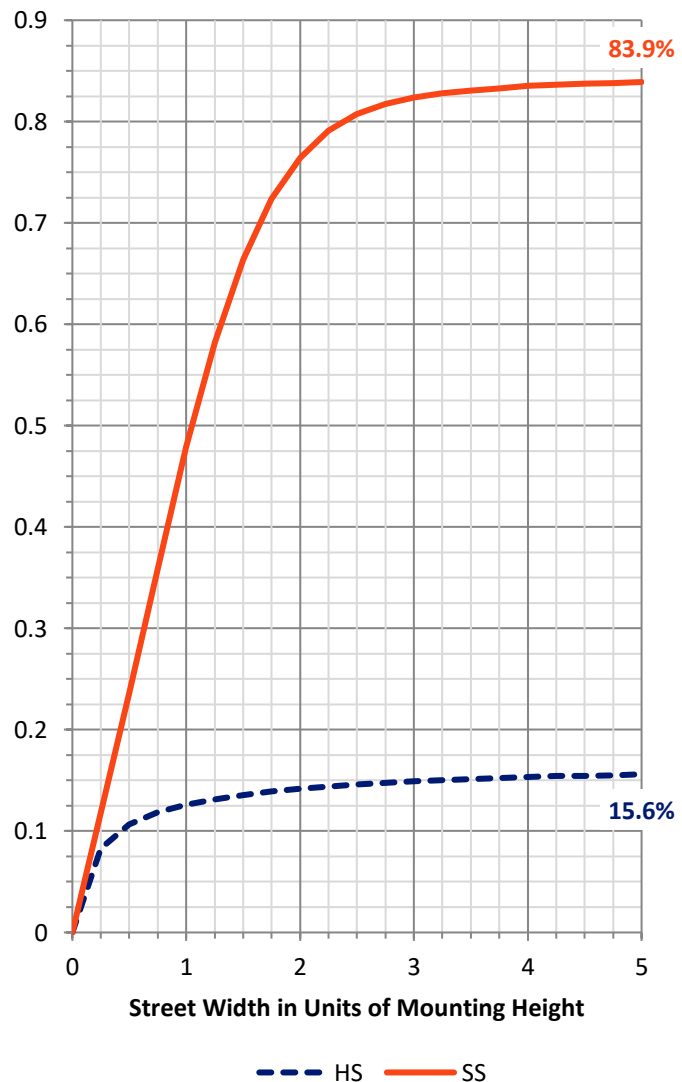
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7110.1	0.0	7110.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	37802.3	0.0	37802.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	44912.4	0.0	44912.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.2	1.5
10°-20°	1836.7	4.1
20°-30°	2880.4	6.4
30°-40°	4111.8	9.2
40°-50°	6205.9	13.8
50°-60°	9878.8	22.0
60°-70°	12629.3	28.1
70°-80°	6157.6	13.7
80°-90°	538.7	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°	44912.4	100.0
0°-180°	44912.4	100.0

Coefficient of Utilization

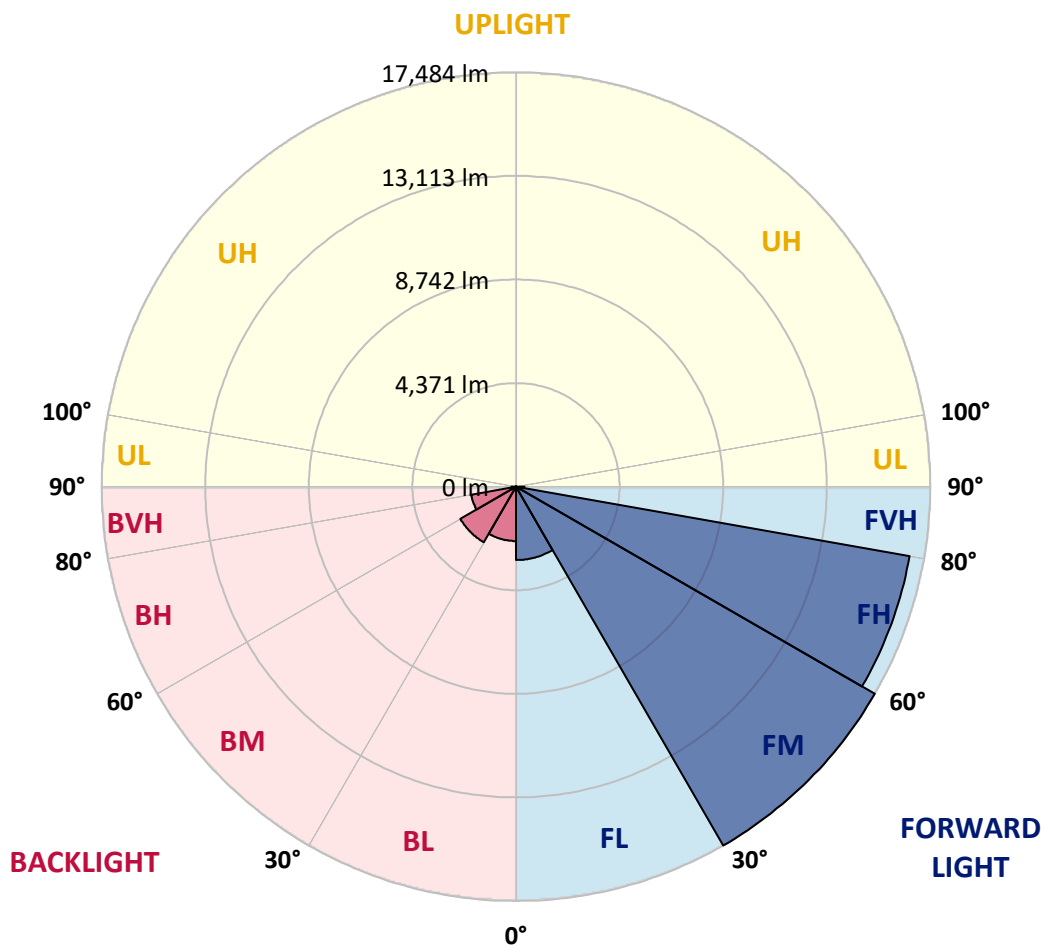


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3095.0	6.9			
FM (30°-60°)	17484.0	38.9			
FH (60°-80°)	16865.6	37.6			G5
FVH (80°-90°)	357.7	0.8			G3/500
BL (0°-30°)	2295.3	5.1	B3/2500		
BM (30°-60°)	2712.6	6.0	B3/5000		
BH (60°-80°)	1921.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	180.9	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°	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3
2.5°	6419.5	6393.2	6424.8	6393.2	6535.4	6619.6	6646.0	6682.8	6814.5	6940.9
5°	6150.9	6035.1	6161.5	6203.6	6214.1	6356.3	6503.8	6530.1	6598.6	6803.9
7.5°	5703.3	5835.0	5787.6	5913.9	6045.6	6187.8	6430.0	6361.6	6614.4	6809.2
10°	5608.5	5619.0	5671.7	5719.1	5835.0	6019.3	6356.3	6314.2	6572.2	6988.3
12.5°	5703.3	5703.3	5687.5	5650.6	5782.3	5961.3	6229.9	6251.0	6656.5	7040.9
15°	6035.1	6098.3	5929.7	5956.1	5903.4	5961.3	6198.3	6245.7	6688.1	7083.0
17.5°	6846.1	6825.0	6624.9	6345.8	6114.1	6077.2	6240.5	6293.1	6656.5	7204.2
20°	7636.0	7593.9	7246.3	6956.7	6498.5	6282.6	6308.9	6314.2	6709.1	7283.2
22.5°	8515.5	8626.0	8246.9	7657.1	7088.3	6551.2	6445.8	6530.1	6830.3	7325.3
25°	9895.2	9658.2	9331.7	8557.6	7641.3	6967.2	6672.3	6714.4	6946.1	7430.6
27.5°	10890.5	10795.7	10284.9	9658.2	8415.4	7293.7	6793.4	6872.4	7156.8	7425.3
30°	11849.0	11849.0	11538.3	10600.9	9231.7	7841.4	7051.4	7014.6	7056.7	7414.8
32.5°	12970.7	12817.9	12370.3	11748.9	10258.6	8341.7	7256.8	7267.4	7267.4	7609.7
35°	13560.5	13808.0	13507.8	12496.7	11043.2	9173.7	7751.9	7672.9	7614.9	7825.6
37.5°	14424.1	14571.6	14255.6	13660.5	12017.5	9847.8	8188.9	8125.8	7788.7	7994.1
40°	14945.5	14919.2	14908.6	14634.8	13307.7	10643.0	8831.4	8668.2	8215.3	8589.2
42.5°	15240.4	15187.7	15835.5	15667.0	14524.2	11812.1	9637.2	9547.6	9047.3	9647.7
45°	15572.2	15961.9	16493.8	16967.7	15940.8	13455.2	11001.1	10874.7	10427.1	11190.7
47.5°	15861.8	16341.0	17020.4	17525.9	17220.5	15240.4	12686.3	12717.9	12423.0	13207.6
50°	16346.3	16393.7	17315.3	18336.9	18573.9	16888.7	14950.8	14898.1	14766.4	15867.1
52.5°	16198.8	16341.0	17504.9	18810.9	19200.6	18631.8	17383.7	17541.7	17367.9	18753.0
55°	13797.5	14224.0	17389.0	19311.2	20685.7	20601.4	20511.9	20406.5	20396.0	21996.9
57.5°	12707.4	13054.9	15319.4	19864.1	22276.0	22897.5	23476.7	23592.6	23587.3	25520.0
60°	11991.1	12349.2	14482.1	19563.9	23629.5	25904.5	27015.6	27031.4	26999.8	29285.4
62.5°	10590.3	10937.9	13033.9	17920.9	24003.4	28679.7	31154.9	31360.2	29912.0	32529.3
65°	8905.2	9189.5	11038.0	15408.9	23008.0	30443.9	34267.2	34024.9	32366.1	34383.0
67°	7283.2	7472.7	9273.8	13228.7	20406.5	29596.1	35167.7	35367.8	33498.3	34462.0
67.5°	6819.7	6993.5	8694.5	12486.2	19416.5	28953.6	35199.3	35167.7	33519.4	34477.8
70°	4734.3	4808.0	5924.5	8589.2	14303.0	24461.5	32629.4	32703.1	32113.3	32608.3
72.5°	3138.7	3249.2	3960.2	5413.7	8431.2	17799.8	27273.7	28063.6	27689.7	26736.5
75°	2022.2	2085.4	2591.0	3222.9	4149.8	10137.4	20148.5	20675.1	19816.7	16535.9
77.5°	1132.2	1200.7	1564.1	1959.0	2022.2	4218.2	11317.1	11970.1	10142.7	7025.1
80°	705.7	795.2	1179.6	1163.8	963.7	1548.3	4665.9	4997.6	4055.0	2417.2
82.5°	531.9	600.3	911.1	816.3	542.4	689.9	1748.4	1874.8	1485.1	932.1
85°	363.4	458.2	658.3	505.6	284.4	331.8	695.1	747.8	679.3	452.9
87.5°	131.7	194.8	342.3	252.8	126.4	100.1	226.4	252.8	242.2	205.4
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°
6988.3	0°	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3	6988.3
7051.4	2.5°	7151.5	7225.2	7262.1	7478.0	7567.5	7551.7	7572.8	7604.4	7636.0	7678.1
7141.0	5°	7209.4	7435.9	7557.0	7809.8	7978.3	7904.6	7999.4	7973.0	7936.2	7930.9
7304.2	7.5°	7399.0	7688.7	8052.0	8120.5	8194.2	8009.9	7851.9	7636.0	7583.3	7399.0
7441.1	10°	7736.1	7973.0	8415.4	8441.7	8115.2	7641.3	7288.4	6840.8	6835.5	6567.0
7651.8	12.5°	8057.3	8325.9	8684.0	8531.3	7751.9	7104.1	6530.1	6040.3	5835.0	5698.0
7778.2	15°	8257.4	8699.8	8889.4	8231.1	7114.6	6240.5	5497.9	4971.3	4760.6	4660.6
7936.2	17.5°	8441.7	9057.9	8973.6	7704.5	6330.0	5350.5	4465.7	4007.6	3949.7	3875.9
8188.9	20°	8694.5	9189.5	8673.4	7019.9	5440.0	4202.4	3638.9	3417.8	3470.4	3502.0
8215.3	22.5°	8931.5	9258.0	8294.3	6272.0	4297.2	3328.2	3049.1	3096.5	3175.5	3280.8
8278.5	25°	9036.8	9368.6	7783.5	5239.9	3270.3	2801.6	2738.4	2817.4	2949.1	2954.3
8368.0	27.5°	9105.3	9289.6	7167.3	4234.0	2585.7	2448.8	2543.6	2601.5	2617.3	2680.5
8557.6	30°	9226.4	9126.3	6387.9	3028.1	2169.7	2174.9	2296.1	2296.1	2296.1	2343.5
8747.2	32.5°	9437.0	9015.7	5476.9	2211.8	1869.5	2038.0	2006.4	1995.9	1974.8	1916.9
8989.4	35°	9568.7	8715.6	4323.6	1637.8	1679.9	1869.5	1859.0	1695.7	1421.9	1285.0
9605.6	37.5°	9842.5	8562.8	3180.8	1263.9	1569.3	1785.2	1727.3	1332.3	1032.2	900.5
10369.2	40°	10432.4	8462.8	2201.3	1105.9	1495.6	1743.1	1543.0	1137.5	789.9	558.2
11548.8	42.5°	11153.8	8468.1	1495.6	1042.7	1500.9	1832.6	1485.1	974.2	558.2	447.6
13123.4	45°	12122.8	8389.1	1026.9	1042.7	1595.7	1980.1	1521.9	884.7	542.4	568.8
15098.2	47.5°	13165.5	8457.5	763.6	947.9	1611.5	1985.4	1390.3	868.9	521.4	658.3
17246.8	50°	14382.0	8526.0	631.9	874.2	1616.7	1922.2	1279.7	847.9	542.4	695.1
19711.4	52.5°	15635.4	8741.9	537.2	826.8	1679.9	1895.8	1279.7	879.5	542.4	605.6
22850.1	55°	17504.9	9294.9	774.1	1032.2	1911.6	2069.6	1574.6	1232.3	758.3	779.4
25857.1	57.5°	19569.2	9863.6	863.7	1084.8	1964.3	1864.2	1695.7	1358.7	800.5	805.7
28195.3	60°	20927.9	9884.7	858.4	1058.5	1837.9	1611.5	1658.9	1432.4	816.3	689.9
29643.5	62.5°	21470.3	9242.2	895.3	1058.5	1711.5	1506.1	1701.0	1543.0	842.6	863.7
30054.2	65°	20854.2	7915.1	863.7	947.9	1506.1	1348.1	1711.5	1564.1	921.6	868.9
29317.0	67°	19890.5	6819.7	879.5	900.5	1400.8	1279.7	1801.0	1643.1	1069.0	1042.7
28932.5	67.5°	19616.6	6530.1	874.2	874.2	1363.9	1258.6	1822.1	1643.1	1090.1	1079.6
25535.8	70°	17288.9	5292.5	895.3	863.7	1206.0	1195.4	1938.0	1732.6	1253.4	1263.9
18758.2	72.5°	13160.2	4012.8	890.0	863.7	1048.0	1142.8	1953.8	1790.5	1363.9	1263.9
10506.1	75°	7478.0	2401.4	784.7	753.1	826.8	995.3	1827.4	1706.3	1327.1	1132.2
4197.2	77.5°	3091.3	1237.6	721.5	679.3	684.6	811.0	1521.9	1590.4	1263.9	963.7
1400.8	80°	1153.3	742.5	579.3	542.4	526.6	595.1	1084.8	1269.2	1079.6	789.9
616.1	82.5°	600.3	463.4	395.0	395.0	358.1	379.2	584.5	842.6	816.3	542.4
247.5	85°	305.4	263.3	226.4	221.2	200.1	179.1	294.9	500.3	468.7	300.2
110.6	87.5°	163.3	147.5	94.8	89.5	73.7	47.4	52.7	100.1	163.3	131.7
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>
6988.3
7720.3
7978.3
7462.2
6556.4
5666.4
4639.5
3912.8
3465.2
3222.9
3007.0
2738.4
2396.1
1885.3
1348.1
895.3
542.4
437.1
579.3
732.0
805.7
621.4
821.5
779.4
710.9
874.2
853.1
1026.9
1058.5
1169.1
1121.7
1011.1
911.1
721.5
426.6
247.5
94.8
0.0

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