

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: P477605

Luminaire Tested: **IFLD-S-SA2A-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477605
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

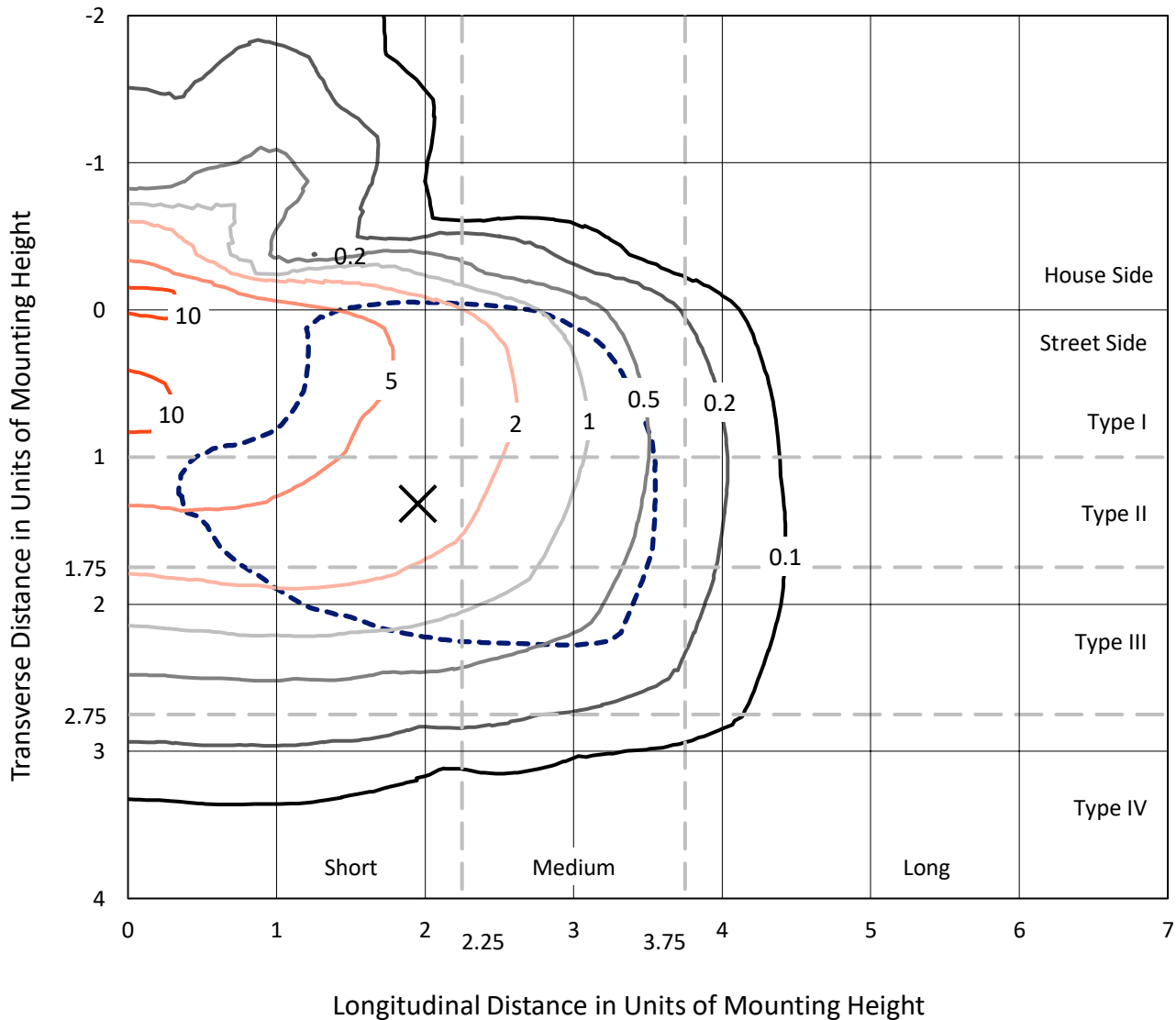
Lumens per Lamp: N/A
Luminaire Lumens: 6680.1 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

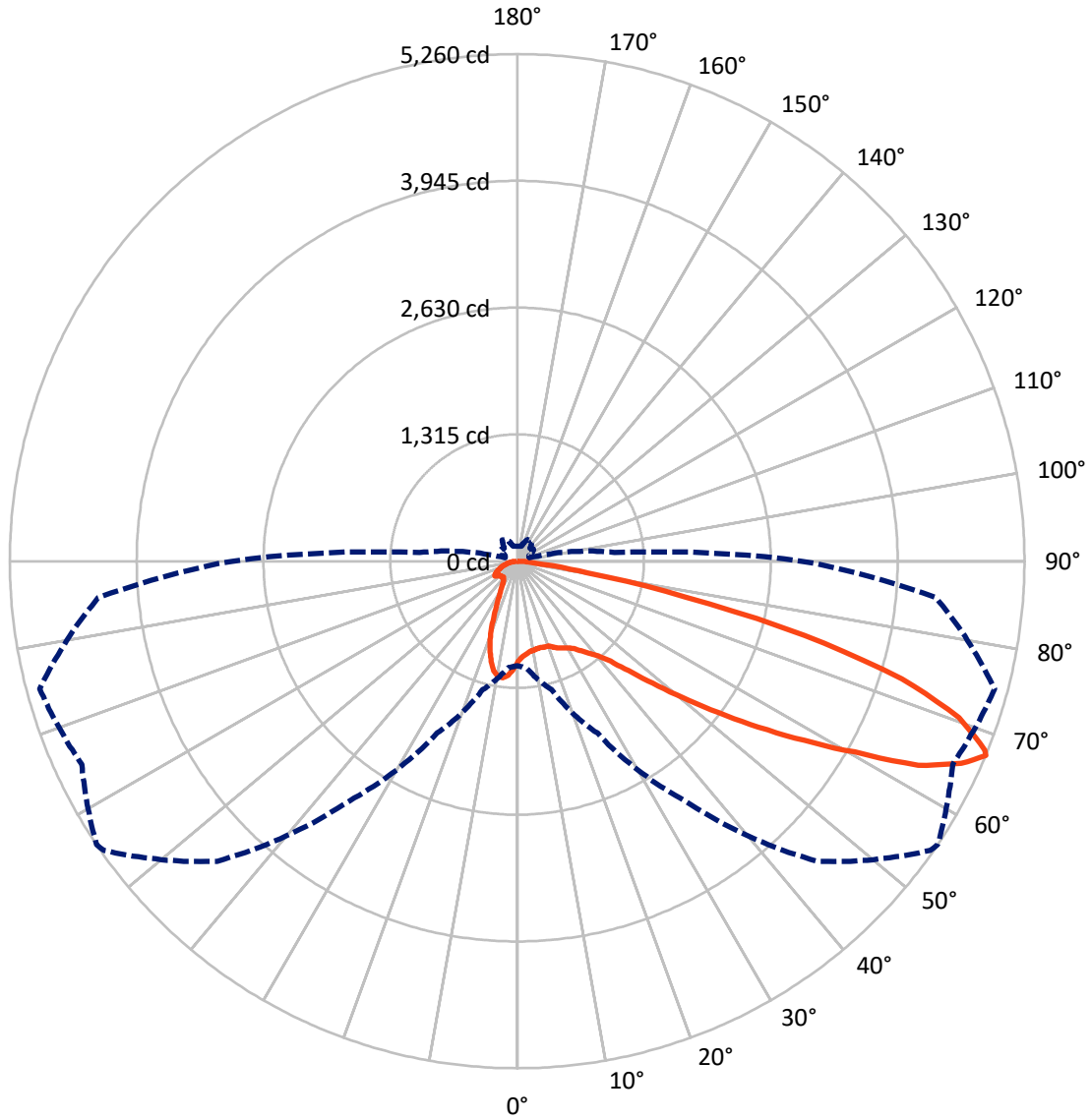
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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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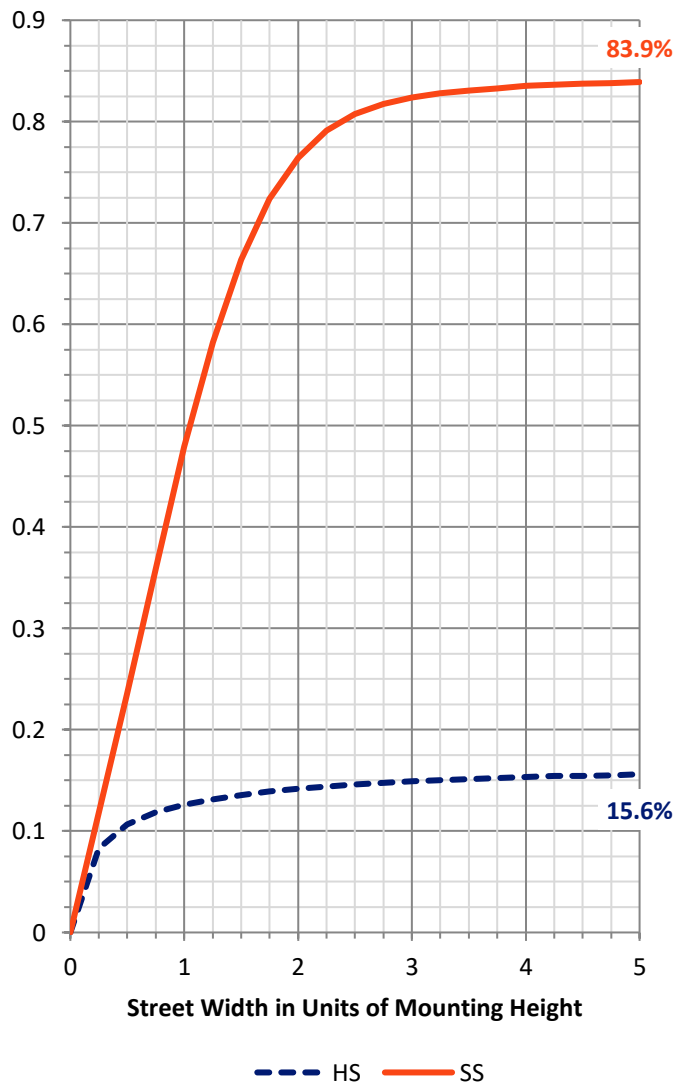
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1057.5	0.0	1057.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	5622.5	0.0	5622.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	6680.1	0.0	6680.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.5
10°-20°	273.2	4.1
20°-30°	428.4	6.4
30°-40°	611.6	9.2
40°-50°	923.0	13.8
50°-60°	1469.3	22.0
60°-70°	1878.4	28.1
70°-80°	915.9	13.7
80°-90°	80.1	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°	6680.1	100.0
0°-180°	6680.1	100.0

Coefficient of Utilization

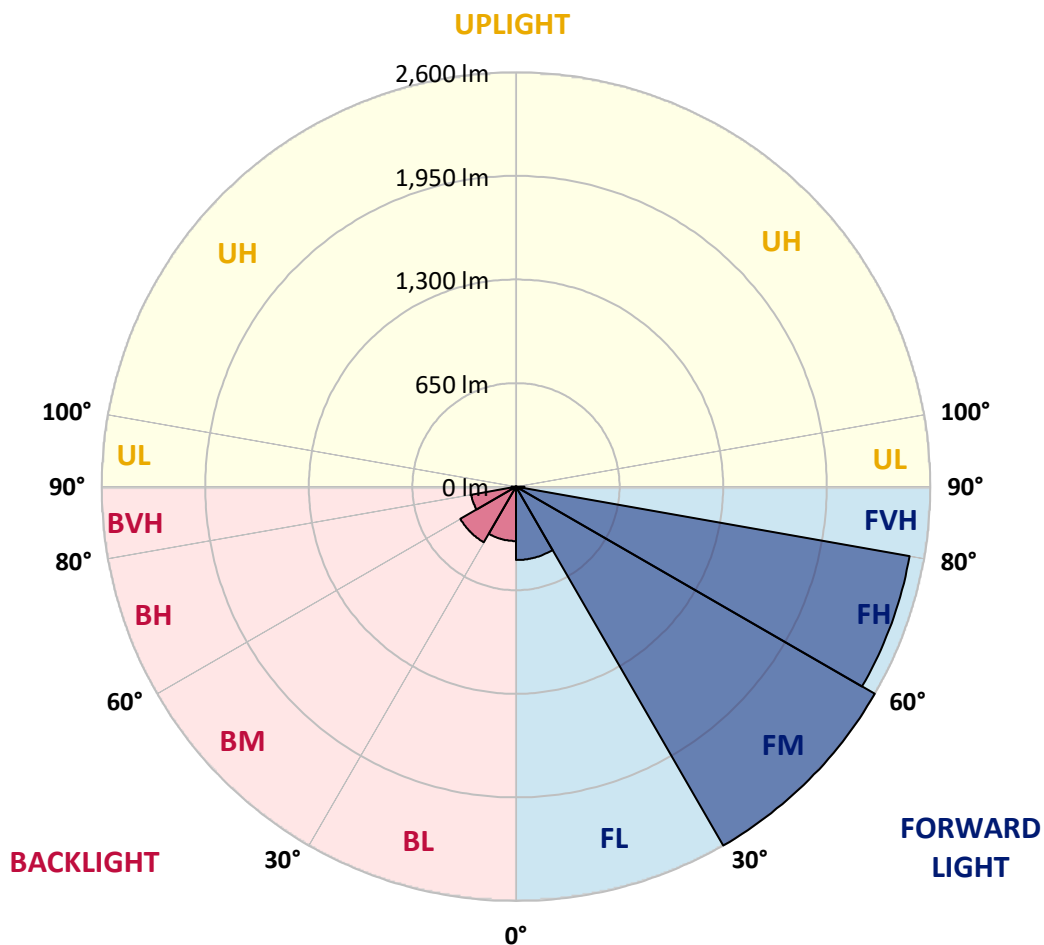


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.3	6.9			
FM (30°-60°)	2600.5	38.9			
FH (60°-80°)	2508.5	37.6			G2/5000
FVH (80°-90°)	53.2	0.8			G1/100
BL (0°-30°)	341.4	5.1	B1/500		
BM (30°-60°)	403.5	6.0	B1/1000		
BH (60°-80°)	285.8	4.3	B1/500		G1/500
BVH (80°-90°)	26.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	954.8	950.9	955.6	950.9	972.0	984.6	988.5	994.0	1013.6	1032.4
5°	914.9	897.6	916.4	922.7	924.3	945.4	967.3	971.3	981.4	1012.0
7.5°	848.3	867.9	860.8	879.6	899.2	920.3	956.4	946.2	983.8	1012.8
10°	834.2	835.7	843.6	850.6	867.9	895.3	945.4	939.1	977.5	1039.4
12.5°	848.3	848.3	845.9	840.4	860.0	886.7	926.6	929.7	990.1	1047.2
15°	897.6	907.0	882.0	885.9	878.0	886.7	921.9	929.0	994.8	1053.5
17.5°	1018.3	1015.1	985.4	943.8	909.4	903.9	928.2	936.0	990.1	1071.5
20°	1135.7	1129.5	1077.8	1034.7	966.6	934.4	938.4	939.1	997.9	1083.3
22.5°	1266.5	1283.0	1226.6	1138.9	1054.3	974.4	958.7	971.3	1015.9	1089.5
25°	1471.8	1436.5	1388.0	1272.8	1136.5	1036.3	992.4	998.7	1033.1	1105.2
27.5°	1619.8	1605.7	1529.7	1436.5	1251.7	1084.8	1010.4	1022.2	1064.5	1104.4
30°	1762.4	1762.4	1716.1	1576.7	1373.1	1166.3	1048.8	1043.3	1049.6	1102.8
32.5°	1929.2	1906.5	1839.9	1747.5	1525.8	1240.7	1079.3	1080.9	1080.9	1131.8
35°	2016.9	2053.7	2009.1	1858.7	1642.5	1364.5	1153.0	1141.2	1132.6	1163.9
37.5°	2145.4	2167.3	2120.3	2031.8	1787.4	1464.7	1218.0	1208.6	1158.5	1189.0
40°	2222.9	2219.0	2217.4	2176.7	1979.3	1583.0	1313.5	1289.3	1221.9	1277.5
42.5°	2266.8	2259.0	2355.3	2330.2	2160.3	1756.9	1433.4	1420.1	1345.7	1435.0
45°	2316.1	2374.1	2453.2	2523.7	2371.0	2001.3	1636.3	1617.5	1550.9	1664.5
47.5°	2359.2	2430.5	2531.5	2606.7	2561.3	2266.8	1886.9	1891.6	1847.7	1964.4
50°	2431.3	2438.3	2575.4	2727.3	2762.6	2511.9	2223.7	2215.9	2196.3	2360.0
52.5°	2409.3	2430.5	2603.6	2797.8	2855.8	2771.2	2585.6	2609.1	2583.2	2789.2
55°	2052.2	2115.6	2586.4	2872.3	3076.7	3064.2	3050.8	3035.2	3033.6	3271.7
57.5°	1890.0	1941.7	2278.5	2954.5	3313.2	3405.7	3491.8	3509.1	3508.3	3795.7
60°	1783.5	1836.8	2154.0	2909.9	3514.5	3852.9	4018.2	4020.5	4015.8	4355.8
62.5°	1575.2	1626.9	1938.6	2665.5	3570.1	4265.7	4633.8	4664.4	4449.0	4838.3
65°	1324.5	1366.8	1641.7	2291.8	3422.1	4528.1	5096.7	5060.7	4814.0	5114.0
67°	1083.3	1111.5	1379.3	1967.6	3035.2	4402.0	5230.7	5260.4	4982.4	5125.7
67.5°	1014.3	1040.2	1293.2	1857.1	2887.9	4306.4	5235.4	5230.7	4985.5	5128.1
70°	704.2	715.1	881.2	1277.5	2127.4	3638.3	4853.1	4864.1	4776.4	4850.0
72.5°	466.8	483.3	589.0	805.2	1254.0	2647.5	4056.6	4174.0	4118.4	3976.7
75°	300.8	310.2	385.4	479.4	617.2	1507.8	2996.8	3075.1	2947.4	2459.5
77.5°	168.4	178.6	232.6	291.4	300.8	627.4	1683.2	1780.4	1508.6	1044.9
80°	105.0	118.3	175.5	173.1	143.3	230.3	694.0	743.3	603.1	359.5
82.5°	79.1	89.3	135.5	121.4	80.7	102.6	260.0	278.8	220.9	138.6
85°	54.0	68.1	97.9	75.2	42.3	49.3	103.4	111.2	101.0	67.4
87.5°	19.6	29.0	50.9	37.6	18.8	14.9	33.7	37.6	36.0	30.5
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°
1039.4	0°	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4
1048.8	2.5°	1063.7	1074.6	1080.1	1112.2	1125.6	1123.2	1126.3	1131.0	1135.7	1142.0
1062.1	5°	1072.3	1106.0	1124.0	1161.6	1186.7	1175.7	1189.8	1185.9	1180.4	1179.6
1086.4	7.5°	1100.5	1143.6	1197.6	1207.8	1218.8	1191.4	1167.9	1135.7	1127.9	1100.5
1106.8	10°	1150.6	1185.9	1251.7	1255.6	1207.0	1136.5	1084.0	1017.5	1016.7	976.7
1138.1	12.5°	1198.4	1238.4	1291.6	1268.9	1153.0	1056.6	971.3	898.4	867.9	847.5
1156.9	15°	1228.2	1294.0	1322.2	1224.3	1058.2	928.2	817.7	739.4	708.1	693.2
1180.4	17.5°	1255.6	1347.2	1334.7	1145.9	941.5	795.8	664.2	596.1	587.5	576.5
1218.0	20°	1293.2	1366.8	1290.0	1044.1	809.1	625.0	541.2	508.3	516.2	520.9
1221.9	22.5°	1328.4	1377.0	1233.7	932.9	639.1	495.0	453.5	460.6	472.3	488.0
1231.3	25°	1344.1	1393.4	1157.7	779.4	486.4	416.7	407.3	419.0	438.6	439.4
1244.6	27.5°	1354.3	1381.7	1066.0	629.7	384.6	364.2	378.3	386.9	389.3	398.7
1272.8	30°	1372.3	1357.4	950.1	450.4	322.7	323.5	341.5	341.5	341.5	348.6
1301.0	32.5°	1403.6	1341.0	814.6	329.0	278.1	303.1	298.4	296.9	293.7	285.1
1337.0	35°	1423.2	1296.3	643.1	243.6	249.9	278.1	276.5	252.2	211.5	191.1
1428.7	37.5°	1463.9	1273.6	473.1	188.0	233.4	265.5	256.9	198.2	153.5	133.9
1542.3	40°	1551.7	1258.7	327.4	164.5	222.4	259.3	229.5	169.2	117.5	83.0
1717.7	42.5°	1659.0	1259.5	222.4	155.1	223.2	272.6	220.9	144.9	83.0	66.6
1951.9	45°	1803.1	1247.8	152.7	155.1	237.3	294.5	226.4	131.6	80.7	84.6
2245.6	47.5°	1958.2	1257.9	113.6	141.0	239.7	295.3	206.8	129.2	77.5	97.9
2565.2	50°	2139.1	1268.1	94.0	130.0	240.5	285.9	190.3	126.1	80.7	103.4
2931.8	52.5°	2325.5	1300.2	79.9	123.0	249.9	282.0	190.3	130.8	80.7	90.1
3398.6	55°	2603.6	1382.5	115.1	153.5	284.3	307.8	234.2	183.3	112.8	115.9
3845.9	57.5°	2910.6	1467.1	128.5	161.4	292.2	277.3	252.2	202.1	119.1	119.8
4193.6	60°	3112.7	1470.2	127.7	157.4	273.4	239.7	246.7	213.0	121.4	102.6
4409.0	62.5°	3193.4	1374.6	133.2	157.4	254.6	224.0	253.0	229.5	125.3	128.5
4470.1	65°	3101.8	1177.3	128.5	141.0	224.0	200.5	254.6	232.6	137.1	129.2
4360.5	67°	2958.4	1014.3	130.8	133.9	208.3	190.3	267.9	244.4	159.0	155.1
4303.3	67.5°	2917.7	971.3	130.0	130.0	202.9	187.2	271.0	244.4	162.1	160.6
3798.1	70°	2571.5	787.2	133.2	128.5	179.4	177.8	288.2	257.7	186.4	188.0
2790.0	72.5°	1957.4	596.9	132.4	128.5	155.9	170.0	290.6	266.3	202.9	188.0
1562.6	75°	1112.2	357.2	116.7	112.0	123.0	148.0	271.8	253.8	197.4	168.4
624.3	77.5°	459.8	184.1	107.3	101.0	101.8	120.6	226.4	236.5	188.0	143.3
208.3	80°	171.5	110.4	86.2	80.7	78.3	88.5	161.4	188.8	160.6	117.5
91.6	82.5°	89.3	68.9	58.7	58.7	53.3	56.4	86.9	125.3	121.4	80.7
36.8	85°	45.4	39.2	33.7	32.9	29.8	26.6	43.9	74.4	69.7	44.6
16.4	87.5°	24.3	21.9	14.1	13.3	11.0	7.0	7.8	14.9	24.3	19.6
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>
1039.4
1148.3
1186.7
1109.9
975.2
842.8
690.1
582.0
515.4
479.4
447.2
407.3
356.4
280.4
200.5
133.2
80.7
65.0
86.2
108.9
119.8
92.4
122.2
115.9
105.7
130.0
126.9
152.7
157.4
173.9
166.8
150.4
135.5
107.3
63.4
36.8
14.1
0.0

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