

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: P477411

Luminaire Tested: **IFLD-S-SA2B-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477411
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

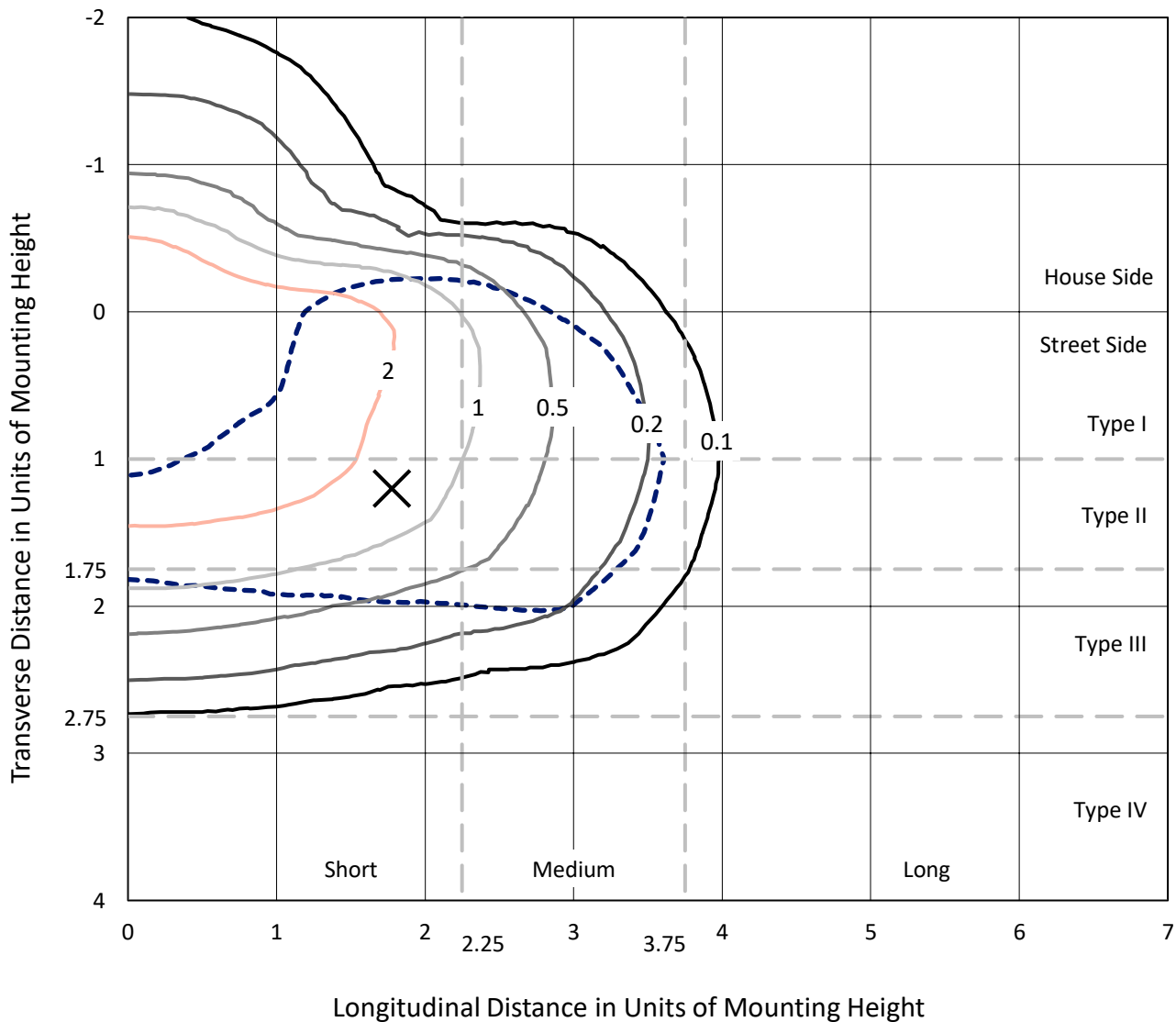
Lumens per Lamp: N/A
Luminaire Lumens: 11895.5 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

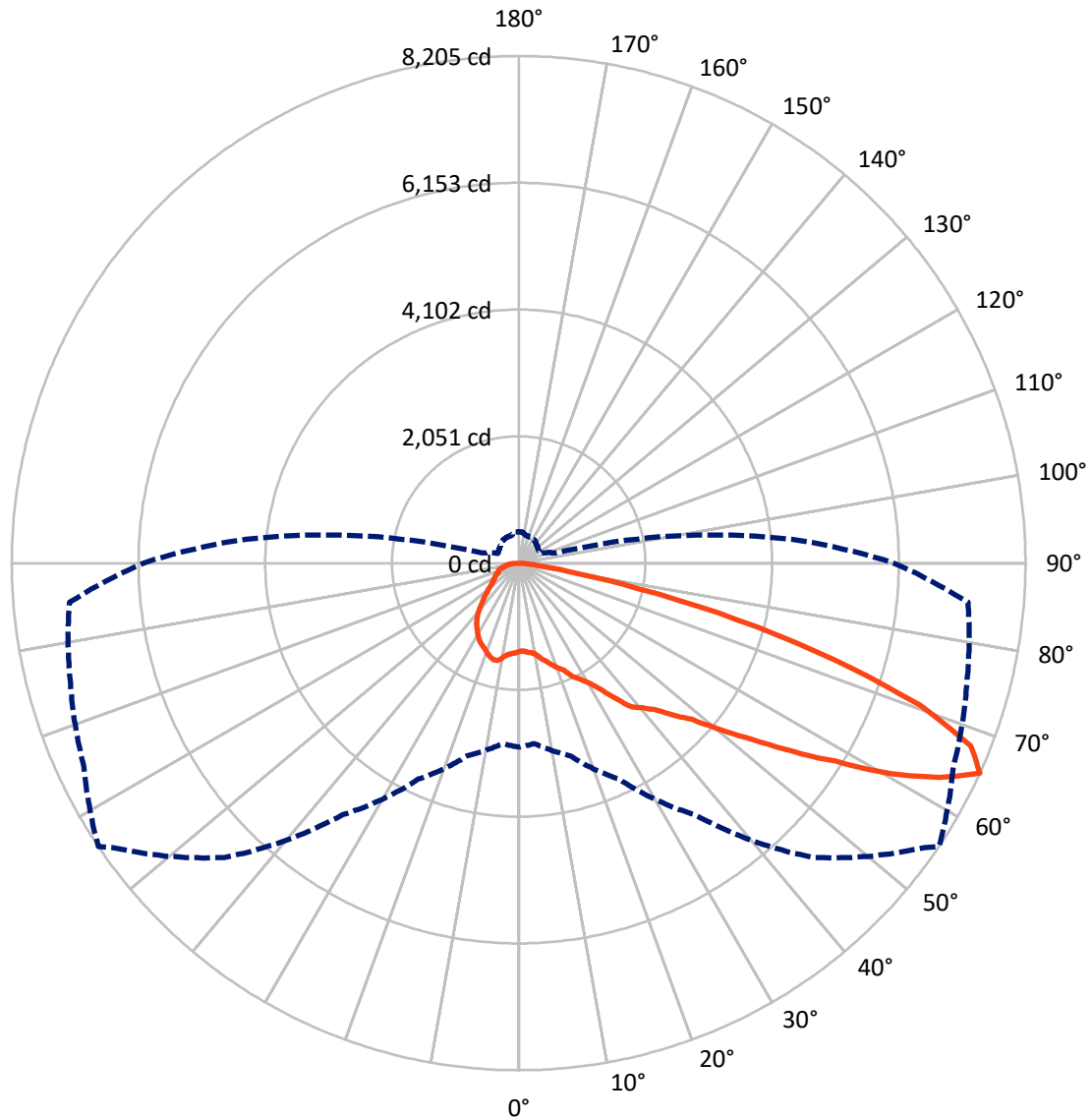
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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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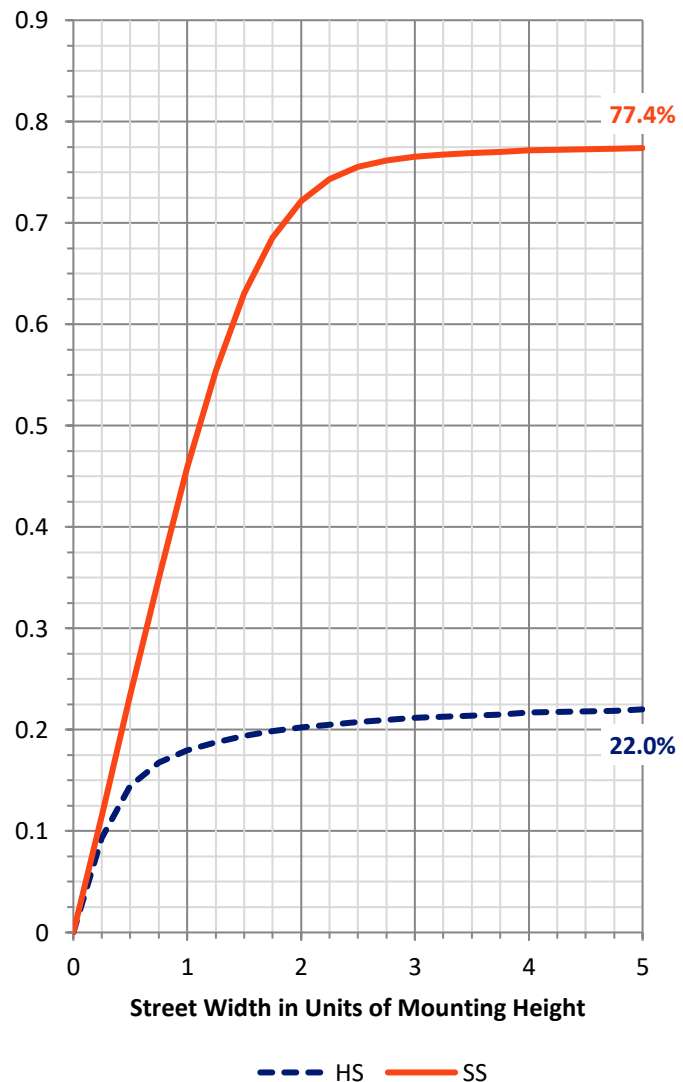
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2667.8	0.0	2667.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9227.8	0.0	9227.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	11895.5	0.0	11895.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.2
10°-20°	459.4	3.9
20°-30°	818.1	6.9
30°-40°	1225.0	10.3
40°-50°	1815.0	15.3
50°-60°	2796.7	23.5
60°-70°	3166.2	26.6
70°-80°	1314.0	11.0
80°-90°	159.6	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°	11895.5	100.0
0°-180°	11895.5	100.0

Coefficient of Utilization

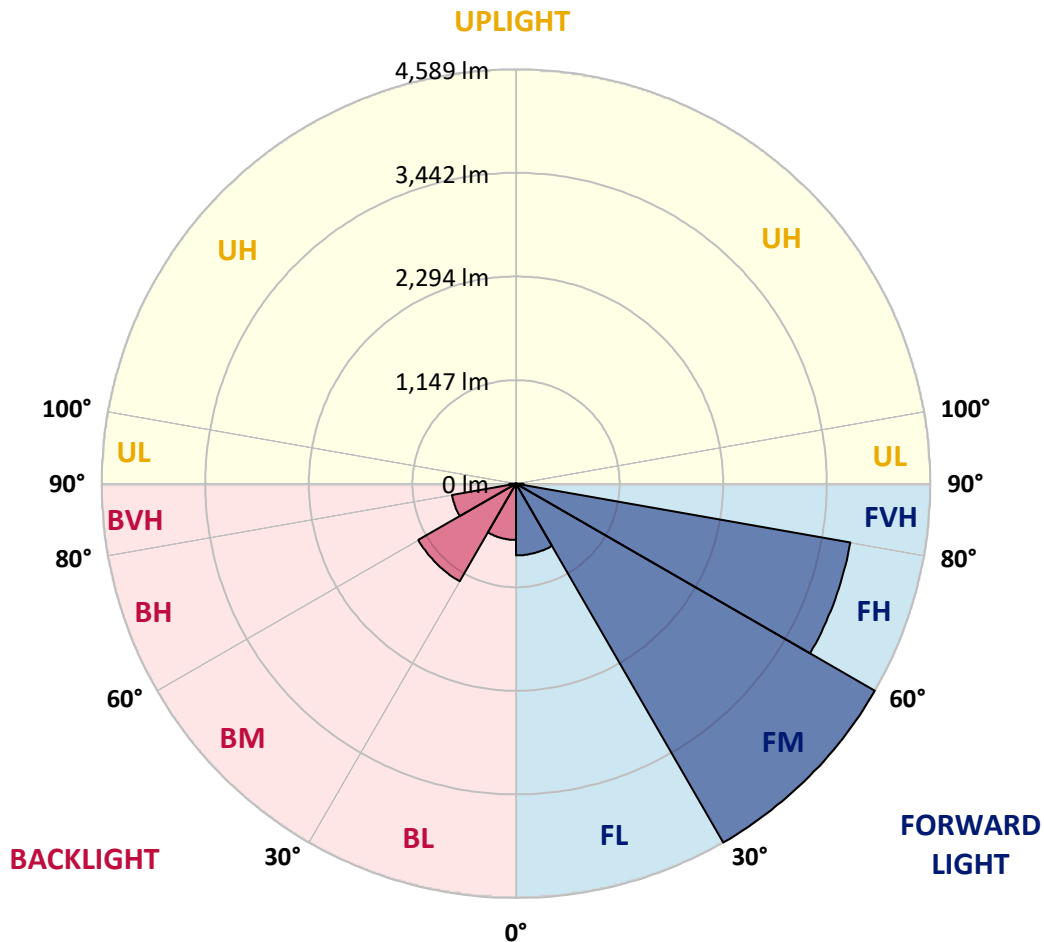


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.0	6.7			
FM (30°-60°)	4588.8	38.6			
FH (60°-80°)	3759.8	31.6			G2/5000
FVH (80°-90°)	84.2	0.7			G1/100
BL (0°-30°)	624.0	5.2	B2/1000		
BM (30°-60°)	1247.9	10.5	B2/2500		
BH (60°-80°)	720.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	75.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8
2.5°	1390.5	1397.9	1392.9	1407.9	1420.3	1420.3	1430.3	1422.8	1432.8	1446.5
5°	1436.5	1406.6	1422.8	1430.3	1426.6	1432.8	1422.8	1447.7	1431.5	1457.7
7.5°	1447.7	1458.9	1472.6	1460.2	1471.4	1465.1	1466.4	1462.7	1453.9	1475.1
10°	1529.9	1513.7	1544.8	1526.1	1523.7	1521.2	1516.2	1497.5	1518.7	1519.9
12.5°	1624.5	1609.5	1608.3	1593.4	1613.3	1577.2	1584.7	1574.7	1578.4	1583.4
15°	1693.0	1686.7	1715.4	1697.9	1671.8	1655.6	1673.0	1645.6	1659.3	1656.9
17.5°	1828.6	1827.4	1806.2	1777.6	1762.7	1739.0	1735.3	1724.1	1734.0	1729.0
20°	1923.2	1936.9	1940.7	1907.1	1849.8	1823.7	1817.4	1808.7	1819.9	1816.2
22.5°	2067.6	2046.5	2062.7	2004.2	1983.0	1920.8	1898.3	1885.9	1939.4	1925.7
25°	2159.8	2182.2	2166.0	2146.1	2098.8	2021.6	2005.4	2032.8	2053.9	2039.0
27.5°	2367.6	2345.2	2330.3	2270.5	2239.4	2158.5	2139.8	2129.9	2134.9	2143.6
30°	2525.7	2538.2	2504.6	2462.2	2383.8	2301.7	2258.1	2249.4	2232.0	2217.0
32.5°	2751.0	2732.4	2712.5	2685.1	2617.8	2509.5	2467.2	2434.9	2382.6	2312.9
35°	2859.3	2912.9	2897.9	2824.5	2773.5	2732.4	2719.9	2670.1	2626.6	2517.0
37.5°	3039.8	3062.2	3041.1	3017.4	2993.8	2950.2	2935.3	2949.0	2863.1	2682.6
40°	3156.9	3204.2	3247.7	3181.8	3176.8	3185.5	3093.4	3077.2	2900.4	2805.8
42.5°	3395.9	3415.8	3424.5	3422.0	3450.6	3450.6	3275.1	3240.3	3114.5	3037.4
45°	3712.0	3728.2	3759.3	3781.8	3749.4	3765.6	3515.4	3501.7	3389.6	3374.7
47.5°	3985.9	4024.5	4094.2	4160.2	4202.5	4147.7	3873.9	3776.8	3748.1	3837.8
50°	4224.9	4178.8	4341.9	4409.1	4594.6	4685.5	4269.7	4231.1	4185.1	4356.9
52.5°	4248.6	4310.8	4541.1	4675.5	5057.7	5225.7	4755.2	4739.0	4683.0	4880.9
55°	4417.9	4410.4	4641.9	4933.2	5387.6	5670.1	5387.6	5377.6	5255.6	5443.6
57.5°	4389.2	4465.2	4648.1	5055.2	5685.1	6146.9	6120.8	6052.3	5881.8	6034.9
60°	4292.1	4312.0	4534.9	5051.5	5858.1	6636.1	6912.5	6926.2	6577.6	6699.6
62.5°	3741.9	3788.0	4070.5	4654.4	5734.9	6973.5	7685.5	7636.9	7358.1	7218.7
65°	2976.4	2930.3	3224.1	3855.2	4968.1	6734.5	8024.1	8204.6	7766.4	7511.2
67.5°	1824.9	1813.7	2096.3	2652.7	3717.0	5731.1	7754.0	7894.6	7653.1	7449.0
70°	939.8	911.2	1088.0	1480.1	2336.5	4205.0	6748.1	6886.3	7116.6	6680.9
72.5°	438.2	432.0	526.6	728.2	1190.0	2472.2	5225.7	5325.3	5810.8	5632.8
75°	257.7	261.4	314.9	380.9	580.1	1165.1	3468.1	3661.0	4187.6	4059.3
77.5°	192.9	192.9	224.1	265.1	338.6	450.6	1711.6	1966.8	2448.6	2202.1
80°	141.9	144.4	171.8	199.2	235.3	232.8	679.7	796.7	1122.8	959.8
82.5°	110.8	114.5	133.2	148.1	165.6	140.7	278.8	300.0	461.8	367.2
85°	77.2	79.7	104.6	100.8	100.8	78.4	115.8	122.0	183.0	174.3
87.5°	18.7	21.2	51.0	56.0	42.3	23.7	36.1	41.1	66.0	75.9
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°
1427.8	0°	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8	1427.8
1452.7	2.5°	1434.0	1439.0	1460.2	1449.0	1455.2	1429.0	1450.2	1432.8	1447.7	1440.3
1463.9	5°	1473.9	1462.7	1475.1	1466.4	1466.4	1476.4	1491.3	1480.1	1502.5	1492.5
1472.6	7.5°	1490.0	1491.3	1498.8	1500.0	1493.8	1524.9	1526.1	1522.4	1543.6	1538.6
1532.4	10°	1529.9	1531.1	1544.8	1552.3	1546.1	1557.3	1544.8	1534.9	1533.6	1528.6
1579.7	12.5°	1593.4	1605.8	1603.3	1609.5	1610.8	1563.5	1534.9	1486.3	1480.1	1486.3
1649.4	15°	1651.9	1646.9	1649.4	1661.8	1609.5	1533.6	1482.6	1441.5	1444.0	1445.2
1740.3	17.5°	1721.6	1725.3	1729.0	1671.8	1575.9	1486.3	1441.5	1441.5	1429.0	1434.0
1803.7	20°	1801.2	1786.3	1753.9	1673.0	1517.4	1431.5	1417.8	1417.8	1402.9	1392.9
1872.2	22.5°	1863.5	1833.6	1785.1	1634.4	1465.1	1410.4	1376.8	1353.1	1335.7	1315.8
1948.1	25°	1903.3	1887.1	1792.5	1594.6	1426.6	1354.4	1304.6	1268.5	1246.1	1219.9
2007.9	27.5°	1964.3	1933.2	1813.7	1548.6	1384.2	1298.3	1221.2	1165.1	1122.8	1095.4
2098.8	30°	2046.5	2001.7	1798.8	1482.6	1319.5	1201.2	1110.4	1038.2	989.6	967.2
2184.7	32.5°	2113.7	2055.2	1786.3	1422.8	1247.3	1102.9	982.2	908.7	881.3	852.7
2329.1	35°	2241.9	2126.1	1777.6	1389.2	1182.6	1004.6	877.6	814.1	779.3	736.9
2414.9	37.5°	2340.3	2249.4	1756.4	1319.5	1099.2	908.7	797.9	740.7	688.4	643.6
2614.1	40°	2494.6	2421.2	1757.7	1221.2	1000.8	826.6	735.7	675.9	610.0	571.4
2909.1	42.5°	2784.7	2590.5	1765.1	1142.7	890.0	759.3	679.7	608.7	542.7	510.4
3245.2	45°	3140.7	2823.2	1719.1	1071.8	776.8	695.9	612.4	541.5	499.2	475.5
3702.1	47.5°	3550.2	3051.0	1656.9	938.6	682.2	628.6	550.2	509.1	478.0	464.3
4290.9	50°	4008.3	3377.2	1639.4	816.6	608.7	571.4	520.3	489.2	468.1	451.9
4954.4	52.5°	4598.4	3756.9	1604.6	690.9	545.2	525.3	509.1	488.0	469.3	455.6
5573.0	55°	5162.3	4177.6	1567.2	587.6	500.4	502.9	511.6	492.9	476.8	455.6
6266.4	57.5°	5797.1	4607.1	1429.0	511.6	466.8	491.7	509.1	488.0	471.8	455.6
6976.0	60°	6189.2	4848.6	1158.9	445.6	436.9	470.5	494.2	471.8	454.4	460.6
7302.1	62.5°	6348.6	4721.6	873.9	404.6	415.8	441.9	470.5	461.8	449.4	473.0
7298.4	65°	6077.2	4429.1	624.9	369.7	387.1	413.3	449.4	459.3	463.1	509.1
6703.3	67.5°	5407.5	3856.4	459.3	341.1	357.3	395.9	464.3	480.5	478.0	535.3
5625.3	70°	4327.0	3016.2	358.5	317.4	346.1	409.5	485.5	485.5	468.1	535.3
4290.9	72.5°	3148.1	2126.1	308.7	290.0	317.4	375.9	483.0	481.7	459.3	489.2
2732.4	75°	1905.8	1237.3	272.6	262.7	272.6	322.4	461.8	454.4	423.2	420.7
1314.5	77.5°	949.8	622.4	222.8	232.8	237.8	270.1	405.8	417.0	374.7	364.7
519.1	80°	400.8	271.4	185.5	200.4	200.4	227.8	337.3	344.8	311.2	292.5
205.4	82.5°	183.0	155.6	158.1	174.3	163.1	176.8	267.6	276.3	252.7	221.6
87.1	85°	77.2	88.4	120.7	136.9	120.7	114.5	184.2	194.2	164.3	136.9
37.3	87.5°	34.9	48.5	75.9	99.6	61.0	53.5	98.3	102.1	82.2	61.0
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>
1427.8
1426.6
1478.8
1531.1
1528.6
1488.8
1462.7
1435.3
1378.0
1304.6
1224.9
1107.9
979.7
851.5
733.2
644.8
575.1
512.9
480.5
461.8
454.4
454.4
454.4
454.4
455.6
466.8
509.1
539.0
524.1
471.8
415.8
358.5
286.3
216.6
138.2
57.3
0.0

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