

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: P477372

Luminaire Tested: **IFLD-S-SA2B-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477372
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

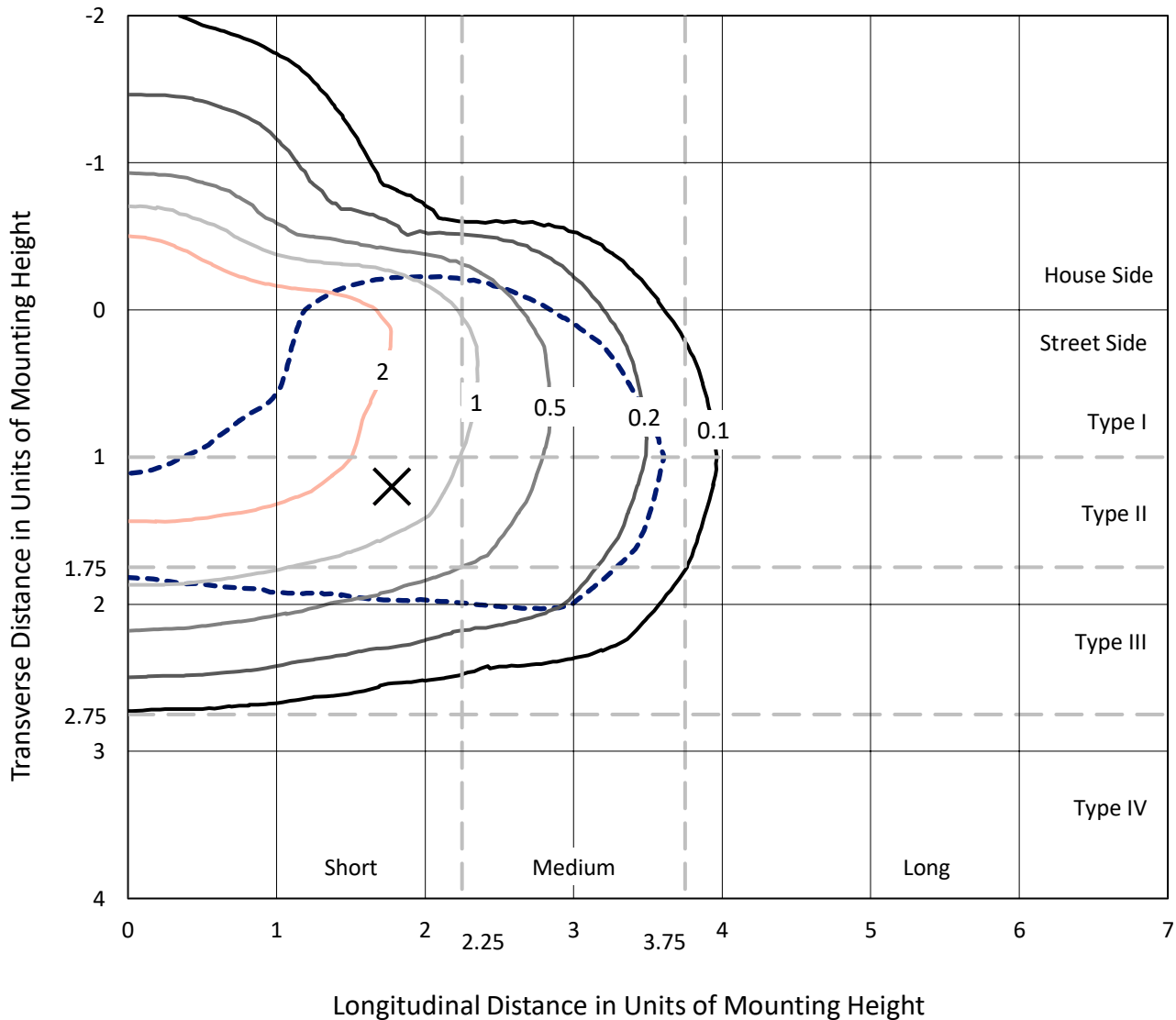
Lumens per Lamp: N/A
Luminaire Lumens: 11629.2 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

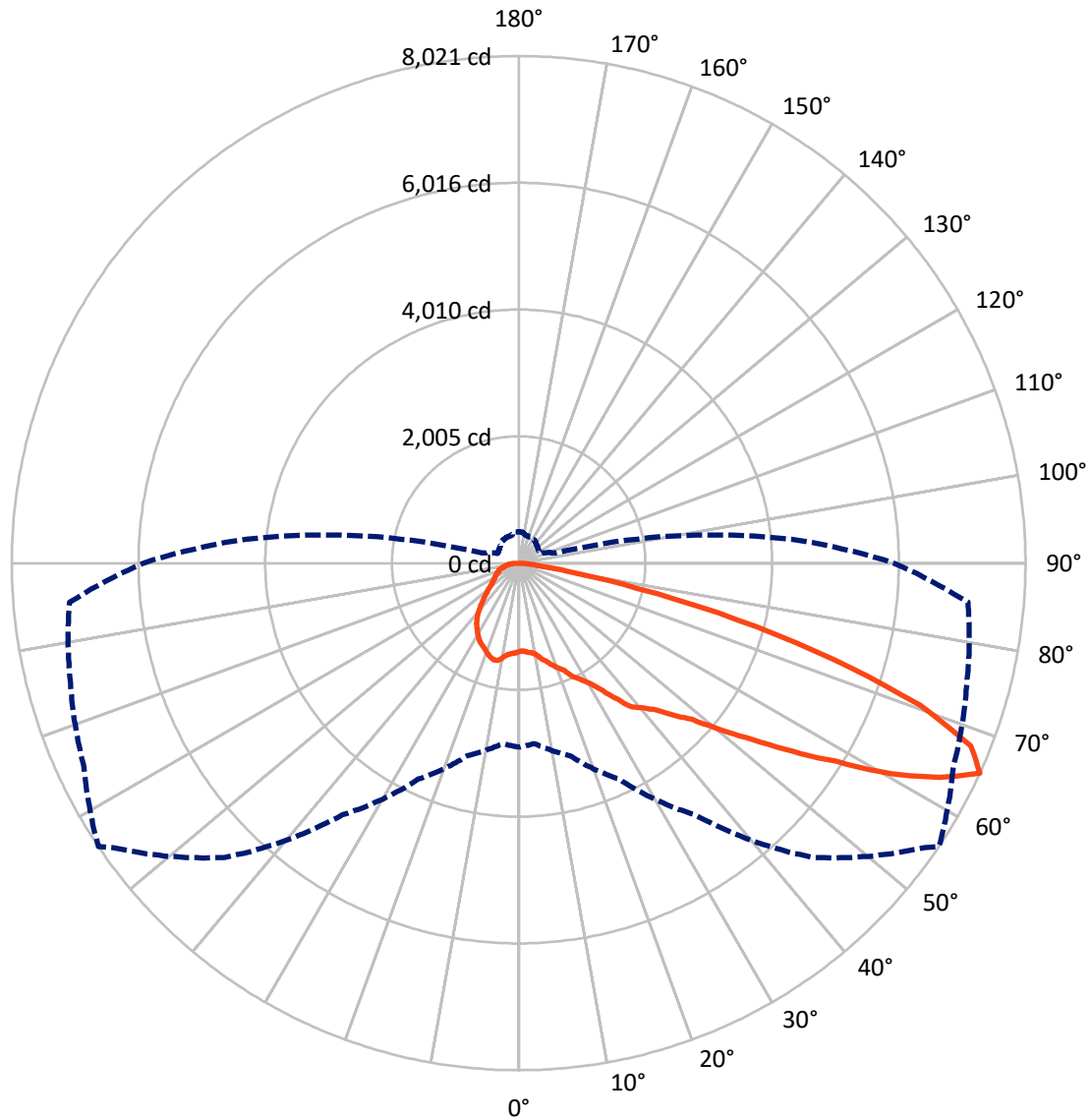
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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	2608.1	0.0	2608.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9021.2	0.0	9021.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	11629.2	0.0	11629.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.2
10°-20°	449.2	3.9
20°-30°	799.7	6.9
30°-40°	1197.6	10.3
40°-50°	1774.4	15.3
50°-60°	2734.1	23.5
60°-70°	3095.3	26.6
70°-80°	1284.6	11.0
80°-90°	156.1	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°	11629.2	100.0
0°-180°	11629.2	100.0

Coefficient of Utilization

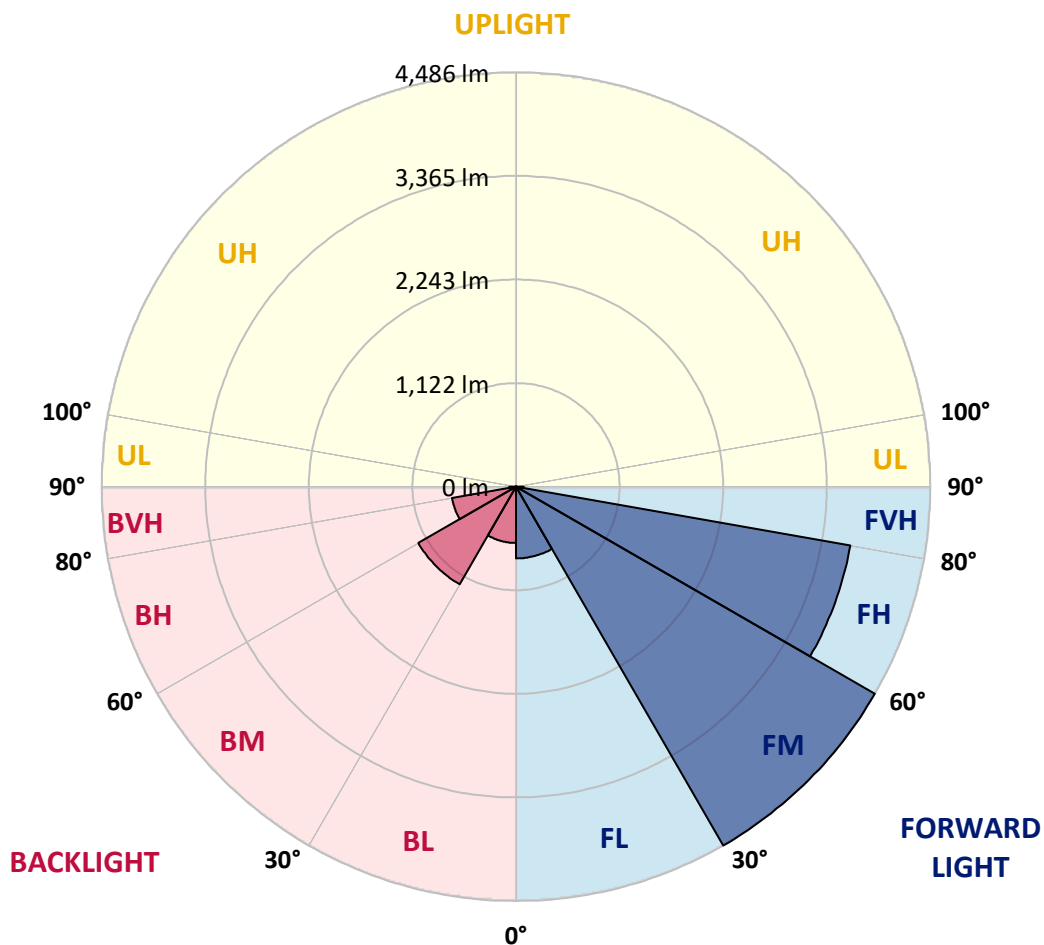


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.2	6.7			
FM (30°-60°)	4486.1	38.6			
FH (60°-80°)	3675.6	31.6			G2/5000
FVH (80°-90°)	82.3	0.7			G1/100
BL (0°-30°)	610.0	5.2	B2/1000		
BM (30°-60°)	1220.0	10.5	B2/2500		
BH (60°-80°)	704.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	73.7	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°	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8
2.5°	1359.3	1366.6	1361.8	1376.4	1388.5	1388.5	1398.3	1391.0	1400.7	1414.1
5°	1404.4	1375.2	1391.0	1398.3	1394.6	1400.7	1391.0	1415.3	1399.5	1425.0
7.5°	1415.3	1426.3	1439.6	1427.5	1438.4	1432.3	1433.6	1429.9	1421.4	1442.1
10°	1495.6	1479.8	1510.2	1492.0	1489.5	1487.1	1482.2	1464.0	1484.7	1485.9
12.5°	1588.1	1573.5	1572.3	1557.7	1577.2	1541.9	1549.2	1539.4	1543.1	1548.0
15°	1655.0	1649.0	1677.0	1659.9	1634.4	1618.5	1635.6	1608.8	1622.2	1619.8
17.5°	1787.7	1786.5	1765.8	1737.8	1723.2	1700.1	1696.4	1685.5	1695.2	1690.3
20°	1880.2	1893.6	1897.2	1864.4	1808.4	1782.8	1776.7	1768.2	1779.2	1775.5
22.5°	2021.4	2000.7	2016.5	1959.3	1938.6	1877.8	1855.8	1843.7	1896.0	1882.6
25°	2111.4	2133.3	2117.5	2098.0	2051.8	1976.3	1960.5	1987.3	2008.0	1993.4
27.5°	2314.6	2292.7	2278.1	2219.7	2189.3	2110.2	2091.9	2082.2	2087.1	2095.6
30°	2469.2	2481.4	2448.5	2407.1	2330.5	2250.1	2207.5	2199.0	2182.0	2167.4
32.5°	2689.5	2671.2	2651.7	2625.0	2559.2	2453.4	2412.0	2380.4	2329.2	2261.1
35°	2795.3	2847.7	2833.1	2761.3	2711.4	2671.2	2659.0	2610.4	2567.8	2460.7
37.5°	2971.8	2993.7	2973.0	2949.9	2926.8	2884.2	2869.6	2883.0	2799.0	2622.5
40°	3086.2	3132.4	3175.0	3110.5	3105.7	3114.2	3024.1	3008.3	2835.5	2743.0
42.5°	3319.8	3339.3	3347.8	3345.4	3373.4	3373.4	3201.8	3167.7	3044.8	2969.4
45°	3628.9	3644.8	3675.2	3697.1	3665.4	3681.3	3436.7	3423.3	3313.8	3299.1
47.5°	3896.7	3934.4	4002.5	4067.0	4108.4	4054.9	3787.1	3692.2	3664.2	3751.9
50°	4130.3	4085.3	4244.7	4310.4	4491.8	4580.6	4174.1	4136.4	4091.4	4259.3
52.5°	4153.4	4214.3	4439.4	4570.9	4944.5	5108.7	4648.7	4632.9	4578.2	4771.7
55°	4318.9	4311.6	4538.0	4822.8	5267.0	5543.2	5267.0	5257.2	5138.0	5321.7
57.5°	4291.0	4365.2	4544.1	4942.0	5557.8	6009.3	5983.7	5916.8	5750.1	5899.8
60°	4196.0	4215.5	4433.3	4938.4	5727.0	6487.6	6757.7	6771.1	6430.4	6549.6
62.5°	3658.1	3703.2	3979.4	4550.2	5606.5	6817.3	7513.4	7466.0	7193.4	7057.1
65°	2909.7	2864.7	3151.9	3768.9	4856.8	6583.7	7844.4	8020.9	7592.5	7343.1
67.5°	1784.0	1773.1	2049.3	2593.3	3633.8	5602.8	7580.4	7717.9	7481.8	7282.2
70°	918.8	890.8	1063.6	1447.0	2284.2	4110.9	6597.1	6732.2	6957.3	6531.4
72.5°	428.4	422.3	514.8	711.9	1163.4	2416.9	5108.7	5206.1	5680.7	5506.7
75°	251.9	255.6	307.9	372.4	567.1	1139.1	3390.4	3579.0	4093.8	3968.5
77.5°	188.6	188.6	219.1	259.2	331.0	440.5	1673.3	1922.8	2393.7	2152.8
80°	138.7	141.2	167.9	194.7	230.0	227.6	664.5	778.8	1097.7	938.3
82.5°	108.3	112.0	130.2	144.8	161.9	137.5	272.6	293.3	451.5	359.0
85°	75.5	77.9	102.2	98.6	98.6	76.7	113.2	119.3	178.9	170.4
87.5°	18.3	20.7	49.9	54.8	41.4	23.1	35.3	40.2	64.5	74.2
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°
1395.8	0°	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8	1395.8
1420.2	2.5°	1401.9	1406.8	1427.5	1416.5	1422.6	1397.1	1417.7	1400.7	1415.3	1408.0
1431.1	5°	1440.9	1429.9	1442.1	1433.6	1433.6	1443.3	1457.9	1447.0	1468.9	1459.1
1439.6	7.5°	1456.7	1457.9	1465.2	1466.4	1460.3	1490.8	1492.0	1488.3	1509.0	1504.1
1498.1	10°	1495.6	1496.8	1510.2	1517.5	1511.4	1522.4	1510.2	1500.5	1499.3	1494.4
1544.3	12.5°	1557.7	1569.9	1567.4	1573.5	1574.7	1528.5	1500.5	1453.0	1447.0	1453.0
1612.5	15°	1614.9	1610.0	1612.5	1624.6	1573.5	1499.3	1449.4	1409.2	1411.7	1412.9
1701.3	17.5°	1683.0	1686.7	1690.3	1634.4	1540.7	1453.0	1409.2	1409.2	1397.1	1401.9
1763.4	20°	1760.9	1746.3	1714.7	1635.6	1483.5	1399.5	1386.1	1386.1	1371.5	1361.8
1830.3	22.5°	1821.8	1792.6	1745.1	1597.9	1432.3	1378.8	1345.9	1322.8	1305.8	1286.3
1904.5	25°	1860.7	1844.9	1752.4	1558.9	1394.6	1324.0	1275.4	1240.1	1218.2	1192.6
1962.9	27.5°	1920.3	1889.9	1773.1	1513.9	1353.2	1269.3	1193.8	1139.1	1097.7	1070.9
2051.8	30°	2000.7	1956.9	1758.5	1449.4	1290.0	1174.4	1085.5	1014.9	967.5	945.6
2135.7	32.5°	2066.4	2009.2	1746.3	1391.0	1219.4	1078.2	960.2	888.4	861.6	833.6
2276.9	35°	2191.7	2078.5	1737.8	1358.1	1156.1	982.1	857.9	795.9	761.8	720.4
2360.9	37.5°	2287.9	2199.0	1717.1	1290.0	1074.6	888.4	780.1	724.1	673.0	629.2
2555.6	40°	2438.8	2367.0	1718.3	1193.8	978.4	808.1	719.2	660.8	596.3	558.6
2844.0	42.5°	2722.3	2532.5	1725.6	1117.2	870.1	742.3	664.5	595.1	530.6	498.9
3172.6	45°	3070.4	2760.0	1680.6	1047.8	759.4	680.3	598.7	529.4	488.0	464.9
3619.2	47.5°	3470.7	2982.7	1619.8	917.6	666.9	614.6	537.9	497.7	467.3	453.9
4194.8	50°	3918.6	3301.6	1602.7	798.3	595.1	558.6	508.7	478.3	457.6	441.8
4843.5	52.5°	4495.4	3672.7	1568.6	675.4	533.0	513.6	497.7	477.0	458.8	445.4
5448.3	55°	5046.7	4084.1	1532.1	574.4	489.2	491.6	500.2	481.9	466.1	445.4
6126.1	57.5°	5667.3	4503.9	1397.1	500.2	456.4	480.7	497.7	477.0	461.2	445.4
6819.8	60°	6050.7	4740.0	1133.0	435.7	427.1	460.0	483.1	461.2	444.2	450.3
7138.6	62.5°	6206.4	4615.9	854.3	395.5	406.5	432.0	460.0	451.5	439.3	462.4
7135.0	65°	5941.1	4329.9	610.9	361.4	378.5	404.0	439.3	449.1	452.7	497.7
6553.3	67.5°	5286.4	3770.1	449.1	333.4	349.3	387.0	453.9	469.7	467.3	523.3
5499.4	70°	4230.1	2948.7	350.5	310.3	338.3	400.4	474.6	474.6	457.6	523.3
4194.8	72.5°	3077.7	2078.5	301.8	283.5	310.3	367.5	472.2	471.0	449.1	478.3
2671.2	75°	1863.1	1209.6	266.5	256.8	266.5	315.2	451.5	444.2	413.8	411.3
1285.1	77.5°	928.5	608.5	217.8	227.6	232.4	264.1	396.7	407.7	366.3	356.6
507.5	80°	391.9	265.3	181.3	195.9	195.9	222.7	329.8	337.1	304.2	286.0
200.8	82.5°	178.9	152.1	154.6	170.4	159.4	172.8	261.6	270.2	247.0	216.6
85.2	85°	75.5	86.4	118.0	133.9	118.0	112.0	180.1	189.8	160.6	133.9
36.5	87.5°	34.1	47.5	74.2	97.4	59.6	52.3	96.1	99.8	80.3	59.6
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>
1395.8
1394.6
1445.7
1496.8
1494.4
1455.5
1429.9
1403.1
1347.2
1275.4
1197.5
1083.1
957.7
832.4
716.8
630.4
562.2
501.4
469.7
451.5
444.2
444.2
444.2
444.2
445.4
456.4
497.7
526.9
512.3
461.2
406.5
350.5
279.9
211.7
135.1
56.0
0.0

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