

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: P477494

Luminaire Tested: **IFLD-S-SA3B-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477494
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

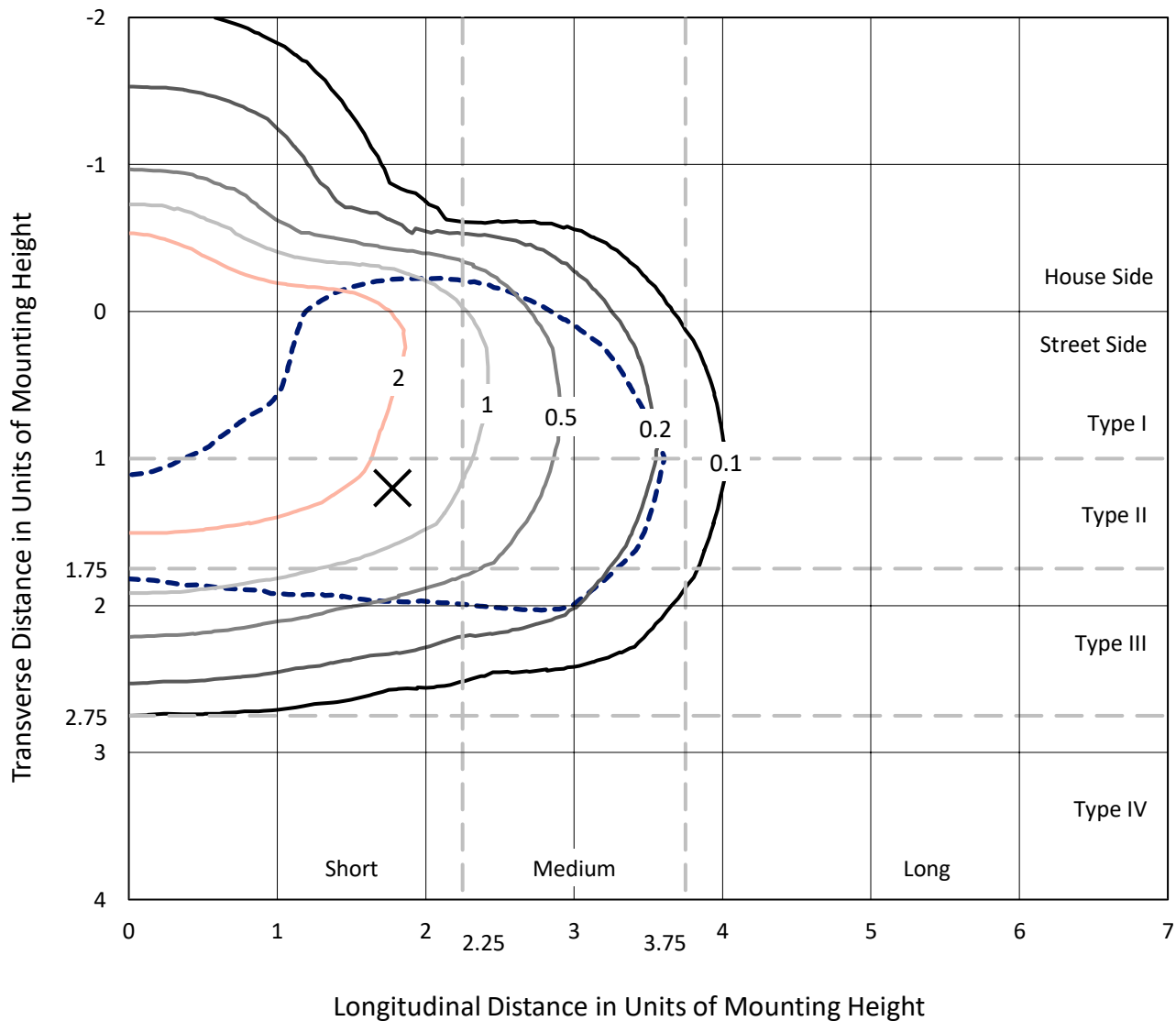
Lumens per Lamp: N/A
Luminaire Lumens: 12740 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

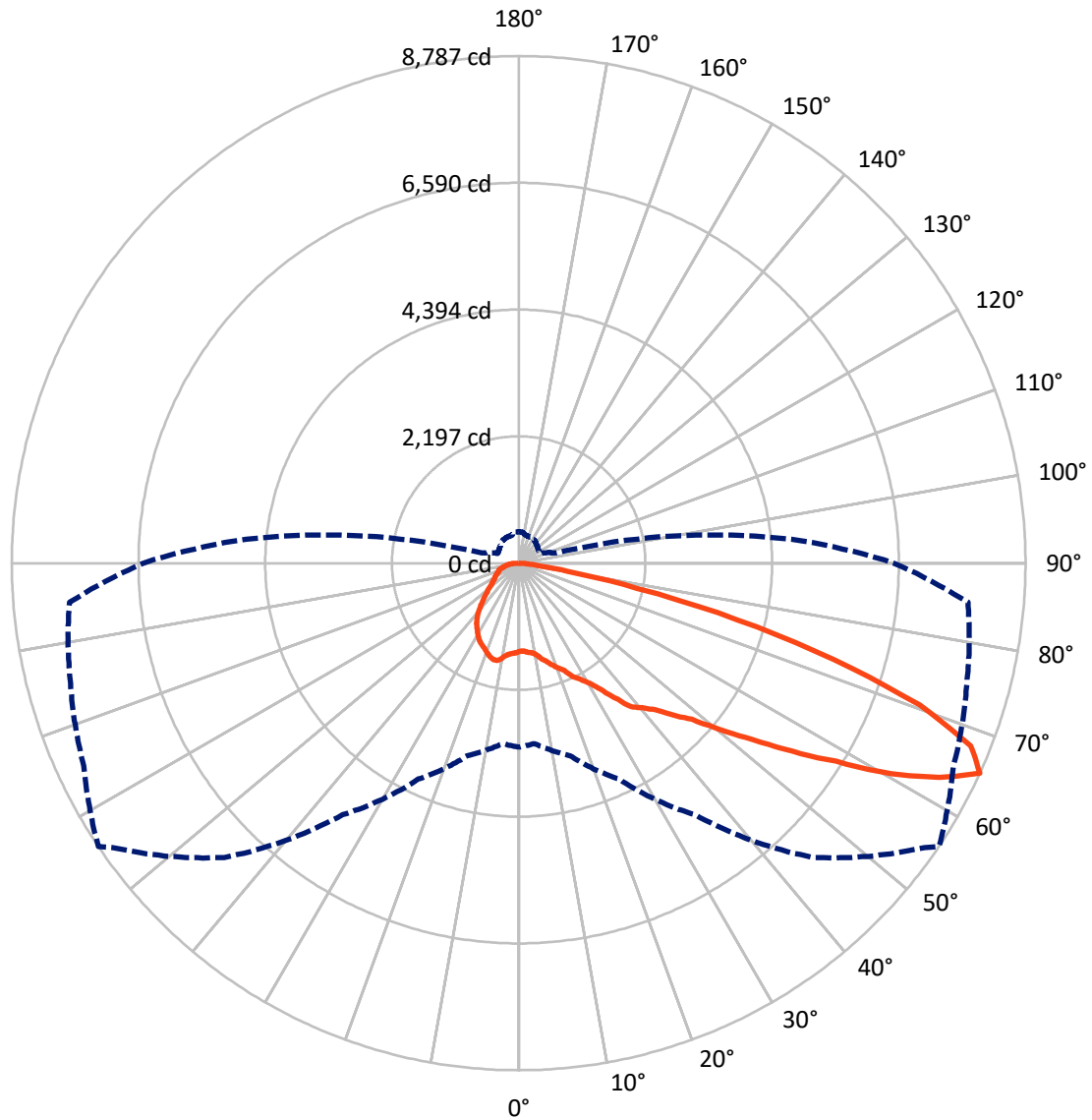
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	2857.2	0.0	2857.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9882.9	0.0	9882.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	12740.0	0.0	12740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.2
10°-20°	492.1	3.9
20°-30°	876.1	6.9
30°-40°	1312.0	10.3
40°-50°	1943.9	15.3
50°-60°	2995.2	23.5
60°-70°	3391.0	26.6
70°-80°	1407.3	11.0
80°-90°	171.0	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°	12740.0	100.0
0°-180°	12740.0	100.0

Coefficient of Utilization

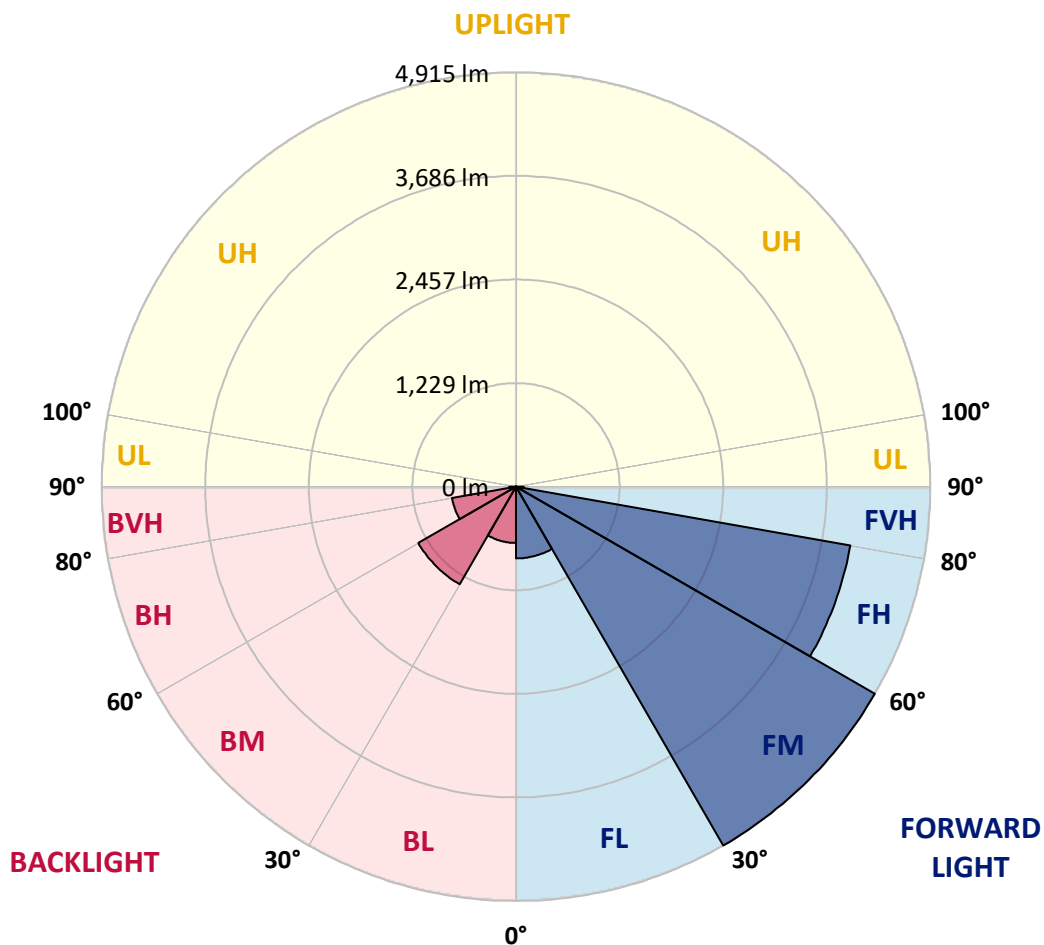


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.4	6.7			
FM (30°-60°)	4914.5	38.6			
FH (60°-80°)	4026.7	31.6			G2/5000
FVH (80°-90°)	90.2	0.7			G1/100
BL (0°-30°)	668.3	5.2	B2/1000		
BM (30°-60°)	1336.5	10.5	B2/2500		
BH (60°-80°)	771.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	80.8	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°	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2
2.5°	1489.2	1497.2	1491.8	1507.8	1521.2	1521.2	1531.8	1523.8	1534.5	1549.2
5°	1538.5	1506.5	1523.8	1531.8	1527.8	1534.5	1523.8	1550.5	1533.2	1561.2
7.5°	1550.5	1562.5	1577.2	1563.8	1575.8	1569.2	1570.5	1566.5	1557.2	1579.8
10°	1638.5	1621.2	1654.5	1634.5	1631.8	1629.2	1623.8	1603.8	1626.5	1627.8
12.5°	1739.8	1723.8	1722.5	1706.5	1727.8	1689.1	1697.1	1686.5	1690.5	1695.8
15°	1813.1	1806.5	1837.1	1818.5	1790.5	1773.1	1791.8	1762.5	1777.1	1774.5
17.5°	1958.5	1957.1	1934.5	1903.8	1887.8	1862.5	1858.5	1846.5	1857.1	1851.8
20°	2059.8	2074.4	2078.4	2042.4	1981.1	1953.1	1946.5	1937.1	1949.1	1945.1
22.5°	2214.4	2191.8	2209.1	2146.4	2123.8	2057.1	2033.1	2019.8	2077.1	2062.4
25°	2313.1	2337.1	2319.7	2298.4	2247.8	2165.1	2147.8	2177.1	2199.8	2183.8
27.5°	2535.7	2511.7	2495.7	2431.7	2398.4	2311.7	2291.7	2281.1	2286.4	2295.7
30°	2705.0	2718.4	2682.4	2637.0	2553.1	2465.1	2418.4	2409.1	2390.4	2374.4
32.5°	2946.3	2926.3	2905.0	2875.7	2803.7	2687.7	2642.4	2607.7	2551.7	2477.1
35°	3062.3	3119.7	3103.7	3025.0	2970.3	2926.3	2913.0	2859.7	2813.0	2695.7
37.5°	3255.6	3279.6	3257.0	3231.6	3206.3	3159.7	3143.7	3158.3	3066.3	2873.0
40°	3381.0	3431.6	3478.3	3407.6	3402.3	3411.6	3313.0	3295.6	3106.3	3005.0
42.5°	3636.9	3658.3	3667.6	3664.9	3695.6	3695.6	3507.6	3470.3	3335.6	3253.0
45°	3975.6	3992.9	4026.2	4050.2	4015.6	4032.9	3764.9	3750.3	3630.3	3614.3
47.5°	4268.9	4310.2	4384.9	4455.5	4500.8	4442.2	4148.9	4044.9	4014.2	4110.2
50°	4524.8	4475.5	4650.2	4722.2	4920.8	5018.1	4572.8	4531.5	4482.2	4666.2
52.5°	4550.2	4616.8	4863.5	5007.5	5416.7	5596.7	5092.8	5075.4	5015.5	5227.4
55°	4731.5	4723.5	4971.5	5283.4	5770.0	6072.7	5770.0	5759.4	5628.7	5830.0
57.5°	4700.8	4782.1	4978.1	5414.1	6088.7	6583.3	6555.3	6482.0	6299.3	6463.3
60°	4596.8	4618.2	4856.8	5410.1	6274.0	7107.2	7403.2	7417.9	7044.6	7175.2
62.5°	4007.6	4056.9	4359.5	4984.8	6142.0	7468.5	8231.1	8179.1	7880.5	7731.2
65°	3187.7	3138.3	3453.0	4128.9	5320.8	7212.5	8593.7	8787.0	8317.8	8044.5
67.5°	1954.5	1942.5	2245.1	2841.0	3980.9	6138.0	8304.4	8455.1	8196.4	7977.8
70°	1006.6	975.9	1165.2	1585.2	2502.4	4503.5	7227.2	7375.2	7621.8	7155.2
72.5°	469.3	462.6	563.9	779.9	1274.5	2647.7	5596.7	5703.4	6223.3	6032.7
75°	276.0	280.0	337.3	408.0	621.3	1247.9	3714.3	3920.9	4484.8	4347.5
77.5°	206.6	206.6	240.0	284.0	362.6	482.6	1833.1	2106.4	2622.4	2358.4
80°	152.0	154.6	184.0	213.3	252.0	249.3	727.9	853.2	1202.5	1027.9
82.5°	118.7	122.7	142.7	158.6	177.3	150.7	298.6	321.3	494.6	393.3
85°	82.7	85.3	112.0	108.0	108.0	84.0	124.0	130.7	196.0	186.6
87.5°	20.0	22.7	54.7	60.0	45.3	25.3	38.7	44.0	70.7	81.3
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°
1529.2	0°	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2
1555.8	2.5°	1535.8	1541.2	1563.8	1551.8	1558.5	1530.5	1553.2	1534.5	1550.5	1542.5
1567.8	5°	1578.5	1566.5	1579.8	1570.5	1570.5	1581.2	1597.2	1585.2	1609.2	1598.5
1577.2	7.5°	1595.8	1597.2	1605.2	1606.5	1599.8	1633.2	1634.5	1630.5	1653.2	1647.8
1641.2	10°	1638.5	1639.8	1654.5	1662.5	1655.8	1667.8	1654.5	1643.8	1642.5	1637.2
1691.8	12.5°	1706.5	1719.8	1717.1	1723.8	1725.1	1674.5	1643.8	1591.8	1585.2	1591.8
1766.5	15°	1769.1	1763.8	1766.5	1779.8	1723.8	1642.5	1587.8	1543.8	1546.5	1547.8
1863.8	17.5°	1843.8	1847.8	1851.8	1790.5	1687.8	1591.8	1543.8	1543.8	1530.5	1535.8
1931.8	20°	1929.1	1913.1	1878.5	1791.8	1625.2	1533.2	1518.5	1518.5	1502.5	1491.8
2005.1	22.5°	1995.8	1963.8	1911.8	1750.5	1569.2	1510.5	1474.5	1449.2	1430.5	1409.2
2086.4	25°	2038.4	2021.1	1919.8	1707.8	1527.8	1450.5	1397.2	1358.5	1334.5	1306.5
2150.4	27.5°	2103.8	2070.4	1942.5	1658.5	1482.5	1390.5	1307.9	1247.9	1202.5	1173.2
2247.8	30°	2191.8	2143.8	1926.5	1587.8	1413.2	1286.5	1189.2	1111.9	1059.9	1035.9
2339.7	32.5°	2263.8	2201.1	1913.1	1523.8	1335.9	1181.2	1051.9	973.2	943.9	913.2
2494.4	35°	2401.1	2277.1	1903.8	1487.8	1266.5	1075.9	939.9	871.9	834.6	789.2
2586.4	37.5°	2506.4	2409.1	1881.1	1413.2	1177.2	973.2	854.6	793.2	737.3	689.3
2799.7	40°	2671.7	2593.0	1882.5	1307.9	1071.9	885.2	787.9	723.9	653.3	611.9
3115.7	42.5°	2982.3	2774.4	1890.5	1223.9	953.2	813.2	727.9	651.9	581.3	546.6
3475.6	45°	3363.6	3023.7	1841.1	1147.9	831.9	745.3	655.9	579.9	534.6	509.3
3964.9	47.5°	3802.3	3267.6	1774.5	1005.2	730.6	673.3	589.3	545.3	511.9	497.3
4595.5	50°	4292.9	3616.9	1755.8	874.6	651.9	611.9	557.3	523.9	501.3	483.9
5306.1	52.5°	4924.8	4023.6	1718.5	739.9	583.9	562.6	545.3	522.6	502.6	487.9
5968.7	55°	5528.7	4474.2	1678.5	629.3	535.9	538.6	547.9	527.9	510.6	487.9
6711.3	57.5°	6208.7	4934.1	1530.5	547.9	499.9	526.6	545.3	522.6	505.3	487.9
7471.2	60°	6628.6	5192.8	1241.2	477.3	467.9	503.9	529.3	505.3	486.6	493.3
7820.5	62.5°	6799.3	5056.8	935.9	433.3	445.3	473.3	503.9	494.6	481.3	506.6
7816.5	65°	6508.6	4743.5	669.3	396.0	414.6	442.6	481.3	491.9	495.9	545.3
7179.2	67.5°	5791.4	4130.2	491.9	365.3	382.6	424.0	497.3	514.6	511.9	573.3
6024.7	70°	4634.2	3230.3	384.0	340.0	370.6	438.6	519.9	519.9	501.3	573.3
4595.5	72.5°	3371.6	2277.1	330.6	310.6	340.0	402.6	517.3	515.9	491.9	523.9
2926.3	75°	2041.1	1325.2	292.0	281.3	292.0	345.3	494.6	486.6	453.3	450.6
1407.8	77.5°	1017.2	666.6	238.6	249.3	254.6	289.3	434.6	446.6	401.3	390.6
555.9	80°	429.3	290.6	198.6	214.6	214.6	244.0	361.3	369.3	333.3	313.3
220.0	82.5°	196.0	166.6	169.3	186.6	174.6	189.3	286.6	296.0	270.6	237.3
93.3	85°	82.7	94.7	129.3	146.7	129.3	122.7	197.3	208.0	176.0	146.7
40.0	87.5°	37.3	52.0	81.3	106.7	65.3	57.3	105.3	109.3	88.0	65.3
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>
1529.2
1527.8
1583.8
1639.8
1637.2
1594.5
1566.5
1537.2
1475.8
1397.2
1311.9
1186.5
1049.2
911.9
785.2
690.6
615.9
549.3
514.6
494.6
486.6
486.6
486.6
486.6
487.9
499.9
545.3
577.3
561.3
505.3
445.3
384.0
306.6
232.0
148.0
61.3
0.0

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