

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: P477561

Luminaire Tested: **IFLD-L-SA7E-830-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477561  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

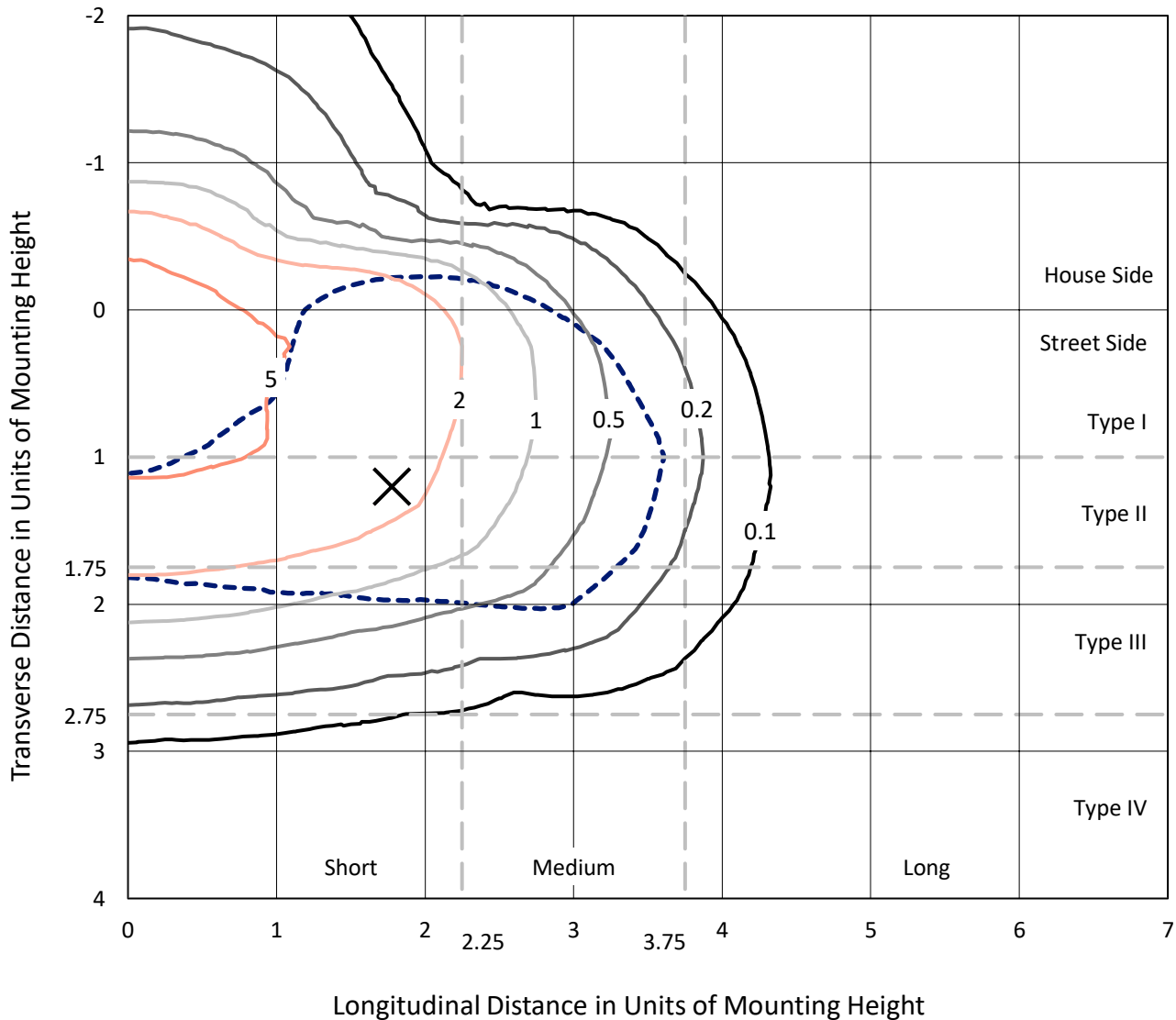
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45687.1 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): 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

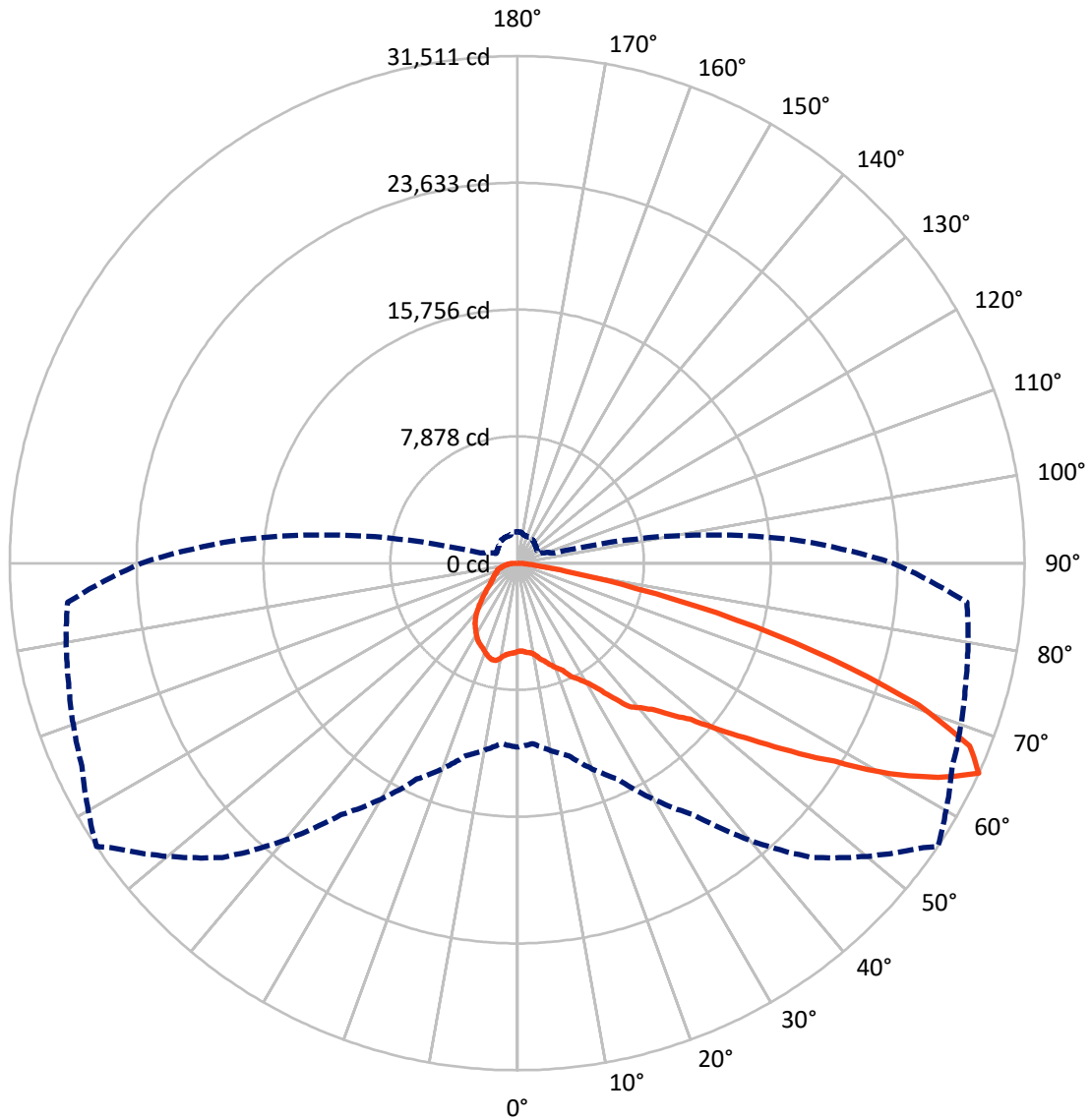
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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
<b>House Side</b>	Lumens	10246.1	0.0	10246.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	35440.9	0.0	35440.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	45687.1	0.0	45687.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.4	1.2
10°-20°	1764.6	3.9
20°-30°	3141.9	6.9
30°-40°	4704.9	10.3
40°-50°	6970.9	15.3
50°-60°	10741.2	23.5
60°-70°	12160.4	26.6
70°-80°	5046.7	11.0
80°-90°	613.1	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°	45687.1	100.0
0°-180°	45687.1	100.0

**Coefficient of Utilization**

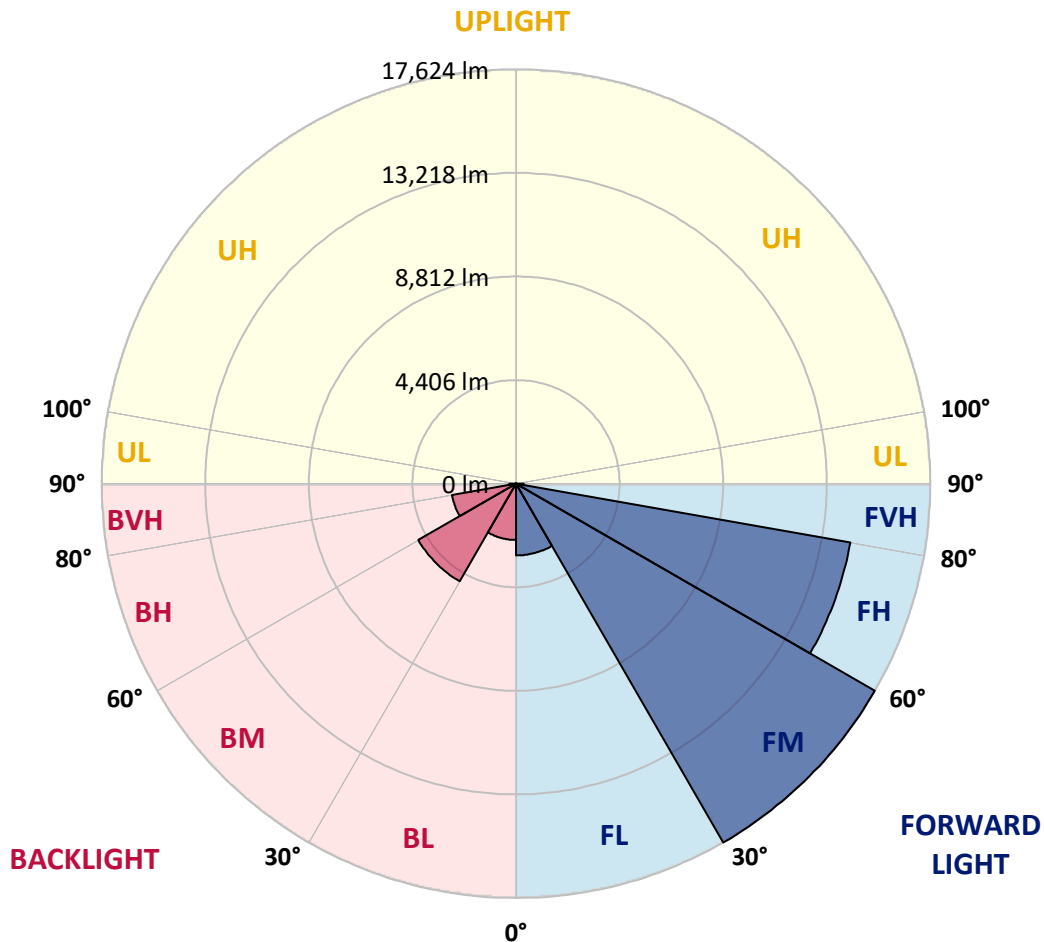


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3053.2	6.7			
FM (30°-60°)	17624.1	38.6			
FH (60°-80°)	14440.2	31.6			G5
FVH (80°-90°)	323.4	0.7			G3/500
BL (0°-30°)	2396.7	5.2	B3/2500		
BM (30°-60°)	4793.0	10.5	B3/5000		
BH (60°-80°)	2766.8	6.1	B4/5000		G4/5000
BVH (80°-90°)	289.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8
2.5°	5340.3	5369.0	5349.9	5407.3	5455.1	5455.1	5493.3	5464.6	5502.9	5555.5
5°	5517.2	5402.5	5464.6	5493.3	5479.0	5502.9	5464.6	5560.2	5498.1	5598.5
7.5°	5560.2	5603.3	5655.9	5608.1	5651.1	5627.2	5632.0	5617.6	5584.2	5665.4
10°	5875.8	5813.6	5933.2	5861.4	5851.9	5842.3	5823.2	5751.5	5832.8	5837.5
12.5°	6239.1	6181.8	6177.0	6119.6	6196.1	6057.5	6086.2	6047.9	6062.2	6081.4
15°	6502.1	6478.2	6588.2	6521.2	6420.8	6358.7	6425.6	6320.4	6373.0	6363.4
17.5°	7023.2	7018.4	6937.2	6827.2	6769.8	6679.0	6664.6	6621.6	6659.9	6640.7
20°	7386.6	7439.2	7453.5	7324.4	7104.5	7004.1	6980.2	6946.7	6989.8	6975.4
22.5°	7941.2	7859.9	7922.0	7697.3	7616.1	7377.0	7291.0	7243.1	7448.7	7396.1
25°	8295.0	8381.0	8318.9	8242.4	8060.7	7764.3	7702.1	7807.3	7888.6	7831.2
27.5°	9093.4	9007.3	8949.9	8720.5	8600.9	8290.2	8218.5	8180.2	8199.3	8232.8
30°	9700.6	9748.4	9619.3	9456.7	9155.5	8840.0	8672.6	8639.2	8572.2	8514.9
32.5°	10565.9	10494.2	10417.7	10312.5	10054.3	9638.4	9475.8	9351.5	9150.7	8883.0
35°	10981.8	11187.4	11130.1	10848.0	10652.0	10494.2	10446.4	10255.1	10087.8	9667.1
37.5°	11675.1	11761.1	11679.9	11589.0	11498.2	11330.9	11273.5	11326.1	10996.2	10303.0
40°	12124.5	12306.2	12473.5	12220.1	12201.0	12234.5	11880.7	11818.5	11139.6	10776.3
42.5°	13042.4	13118.9	13152.4	13142.8	13252.8	13252.8	12578.7	12444.8	11961.9	11665.5
45°	14256.8	14319.0	14438.5	14524.5	14400.2	14462.4	13501.4	13448.8	13018.5	12961.2
47.5°	15308.6	15456.8	15724.6	15977.9	16140.5	15930.1	14878.3	14505.4	14395.4	14739.7
50°	16226.6	16049.7	16676.0	16934.1	17646.5	17995.5	16398.7	16250.5	16073.6	16733.3
52.5°	16317.4	16556.4	17440.9	17957.3	19425.0	20070.4	18263.2	18201.1	17985.9	18746.1
55°	16967.6	16938.9	17828.2	18946.9	20692.0	21777.2	20692.0	20653.7	20185.2	20907.1
57.5°	16857.6	17149.3	17852.1	19415.4	21834.6	23608.3	23507.9	23245.0	22590.0	23178.1
60°	16484.7	16561.2	17417.0	19401.1	22499.2	25487.3	26548.6	26601.2	25262.6	25731.1
62.5°	14371.5	14548.4	15633.7	17876.0	22025.8	26782.9	29517.6	29331.1	28260.2	27724.7
65°	11431.3	11254.4	12382.7	14806.6	19080.8	25865.0	30818.0	31511.3	29828.4	28848.3
67.5°	7008.9	6965.8	8051.1	10188.2	14275.9	22011.5	29780.6	30320.8	29393.3	28609.2
70°	3609.6	3499.7	4178.6	5684.6	8973.8	16150.1	25917.5	26448.2	27332.7	25659.4
72.5°	1682.9	1659.0	2022.3	2796.9	4570.6	9495.0	20070.4	20452.9	22317.5	21633.8
75°	989.7	1004.0	1209.6	1463.0	2227.9	4475.0	13319.7	14060.8	16083.1	15590.7
77.5°	741.0	741.0	860.6	1018.3	1300.4	1730.7	6573.8	7553.9	9404.1	8457.5
80°	545.0	554.6	659.8	765.0	903.6	894.0	2610.4	3059.8	4312.4	3686.1
82.5°	425.5	439.8	511.6	568.9	635.9	540.2	1070.9	1152.2	1773.7	1410.4
85°	296.4	306.0	401.6	387.3	387.3	301.2	444.6	468.5	702.8	669.3
87.5°	71.7	81.3	196.0	215.1	162.6	90.8	138.6	157.8	253.4	291.6
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°
5483.8	0°	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8	5483.8
5579.4	2.5°	5507.7	5526.8	5608.1	5565.0	5588.9	5488.5	5569.8	5502.9	5560.2	5531.6
5622.4	5°	5660.6	5617.6	5665.4	5632.0	5632.0	5670.2	5727.6	5684.6	5770.6	5732.4
5655.9	7.5°	5722.8	5727.6	5756.3	5761.0	5737.1	5856.7	5861.4	5847.1	5928.4	5909.3
5885.4	10°	5875.8	5880.6	5933.2	5961.8	5937.9	5981.0	5933.2	5894.9	5890.1	5871.0
6067.0	12.5°	6119.6	6167.4	6157.9	6181.8	6186.6	6004.9	5894.9	5708.5	5684.6	5708.5
6334.8	15°	6344.3	6325.2	6334.8	6382.6	6181.8	5890.1	5694.1	5536.3	5545.9	5550.7
6683.8	17.5°	6612.1	6626.4	6640.7	6420.8	6052.7	5708.5	5536.3	5536.3	5488.5	5507.7
6927.6	20°	6918.0	6860.7	6736.4	6425.6	5828.0	5498.1	5445.5	5445.5	5388.1	5349.9
7190.6	22.5°	7157.1	7042.3	6855.9	6277.4	5627.2	5416.8	5287.7	5196.9	5130.0	5053.5
7482.2	25°	7310.1	7247.9	6884.6	6124.4	5479.0	5201.7	5010.4	4871.8	4785.7	4685.3
7711.7	27.5°	7544.3	7424.8	6965.8	5947.5	5316.4	4986.5	4690.1	4475.0	4312.4	4207.2
8060.7	30°	7859.9	7687.8	6908.5	5694.1	5067.8	4613.6	4264.6	3987.3	3800.9	3714.8
8390.6	32.5°	8118.1	7893.4	6860.7	5464.6	4790.5	4235.9	3772.2	3490.1	3384.9	3275.0
8945.2	35°	8610.5	8165.9	6827.2	5335.5	4541.9	3858.2	3370.6	3126.7	2992.9	2830.3
9275.0	37.5°	8988.2	8639.2	6745.9	5067.8	4221.6	3490.1	3064.6	2844.7	2643.9	2471.8
10040.0	40°	9581.0	9299.0	6750.7	4690.1	3843.9	3174.6	2825.5	2596.1	2342.7	2194.5
11173.1	42.5°	10695.0	9949.2	6779.4	4388.9	3418.4	2916.4	2610.4	2337.9	2084.5	1960.2
12463.9	45°	12062.3	10843.2	6602.5	4116.4	2983.3	2672.6	2352.2	2079.7	1917.2	1826.3
14218.6	47.5°	13635.3	11718.1	6363.4	3604.8	2620.0	2414.4	2113.2	1955.4	1835.9	1783.3
16479.9	50°	15394.7	12970.7	6296.5	3136.3	2337.9	2194.5	1998.4	1878.9	1797.6	1735.5
19028.2	52.5°	17660.8	14428.9	6162.6	2653.4	2094.1	2017.6	1955.4	1874.1	1802.4	1749.8
21404.3	55°	19826.6	16044.9	6019.2	2256.6	1921.9	1931.5	1965.0	1893.3	1831.1	1749.8
24067.3	57.5°	22264.9	17694.3	5488.5	1965.0	1792.9	1888.5	1955.4	1874.1	1812.0	1749.8
26792.5	60°	23770.9	18621.8	4451.1	1711.6	1678.1	1807.2	1898.0	1812.0	1745.0	1769.0
28045.1	62.5°	24382.9	18134.2	3356.2	1553.8	1596.8	1697.2	1807.2	1773.7	1725.9	1816.8
28030.7	65°	23340.6	17010.6	2400.0	1419.9	1486.9	1587.3	1725.9	1764.2	1778.5	1955.4
25745.4	67.5°	20768.5	14811.4	1764.2	1310.0	1372.1	1520.3	1783.3	1845.4	1835.9	2055.8
21605.1	70°	16618.6	11584.2	1376.9	1219.1	1329.1	1572.9	1864.6	1864.6	1797.6	2055.8
16479.9	72.5°	12091.0	8165.9	1185.7	1114.0	1219.1	1443.8	1855.0	1850.2	1764.2	1878.9
10494.2	75°	7319.6	4752.3	1047.0	1008.8	1047.0	1238.3	1773.7	1745.0	1625.5	1616.0
5048.7	77.5°	3647.9	2390.5	855.8	894.0	913.2	1037.5	1558.6	1601.6	1439.1	1400.8
1993.7	80°	1539.5	1042.2	712.4	769.7	769.7	874.9	1295.6	1324.3	1195.2	1123.5
788.9	82.5°	702.8	597.6	607.2	669.3	626.3	678.9	1027.9	1061.4	970.5	851.0
334.7	85°	296.4	339.4	463.8	525.9	463.8	439.8	707.6	745.8	631.1	525.9
143.4	87.5°	133.9	186.5	291.6	382.5	234.3	205.6	377.7	392.0	315.5	234.3
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>
5483.8
5479.0
5679.8
5880.6
5871.0
5718.0
5617.6
5512.4
5292.5
5010.4
4704.5
4255.0
3762.6
3270.2
2816.0
2476.5
2208.8
1969.8
1845.4
1773.7
1745.0
1745.0
1745.0
1745.0
1749.8
1792.9
1955.4
2070.2
2012.8
1812.0
1596.8
1376.9
1099.6
831.9
530.7
219.9
0.0

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