

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: P477292

Luminaire Tested: **IFLD-L-SA8D-727-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477292
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

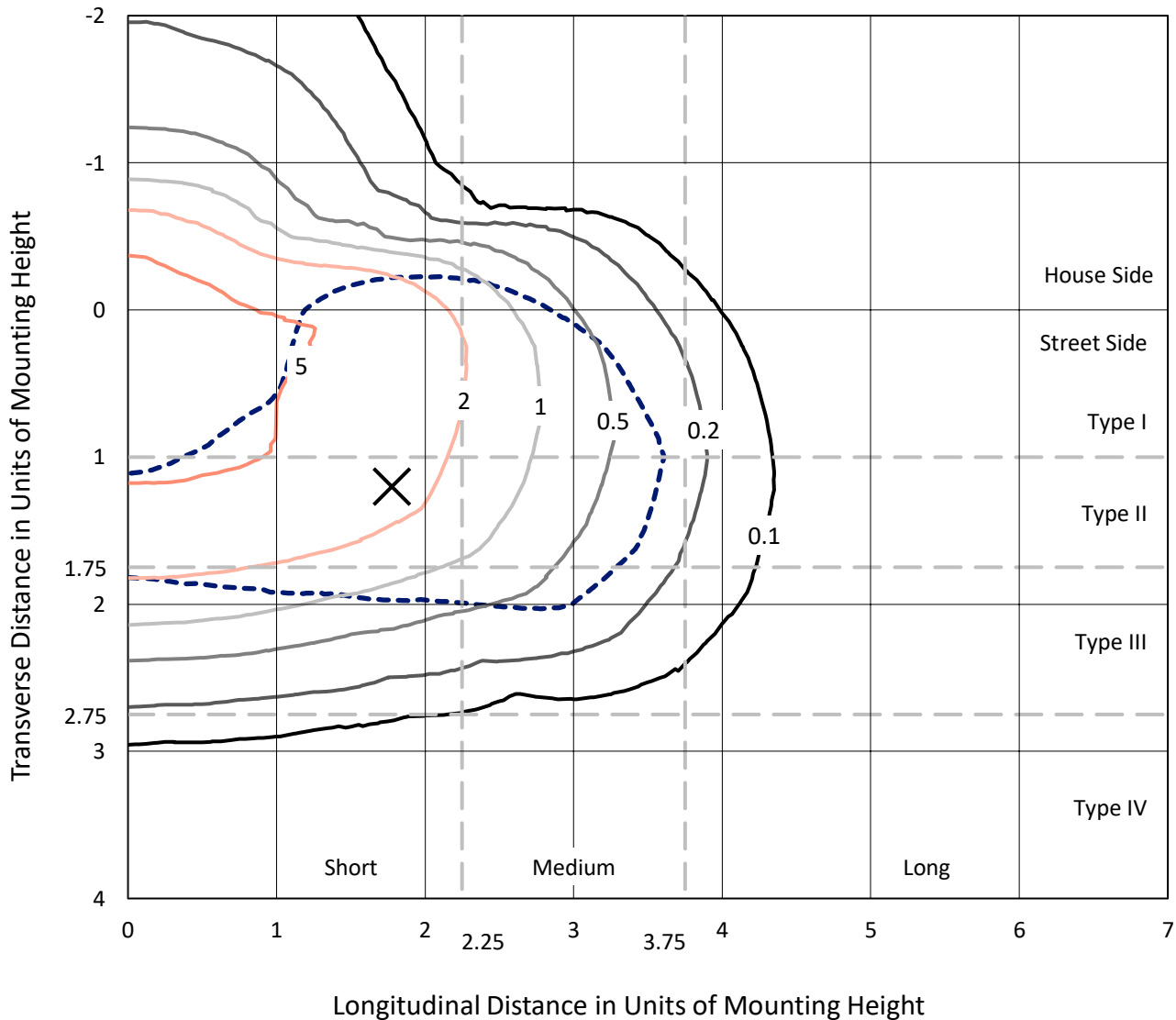
Lumens per Lamp: N/A
Luminaire Lumens: 47485.2 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

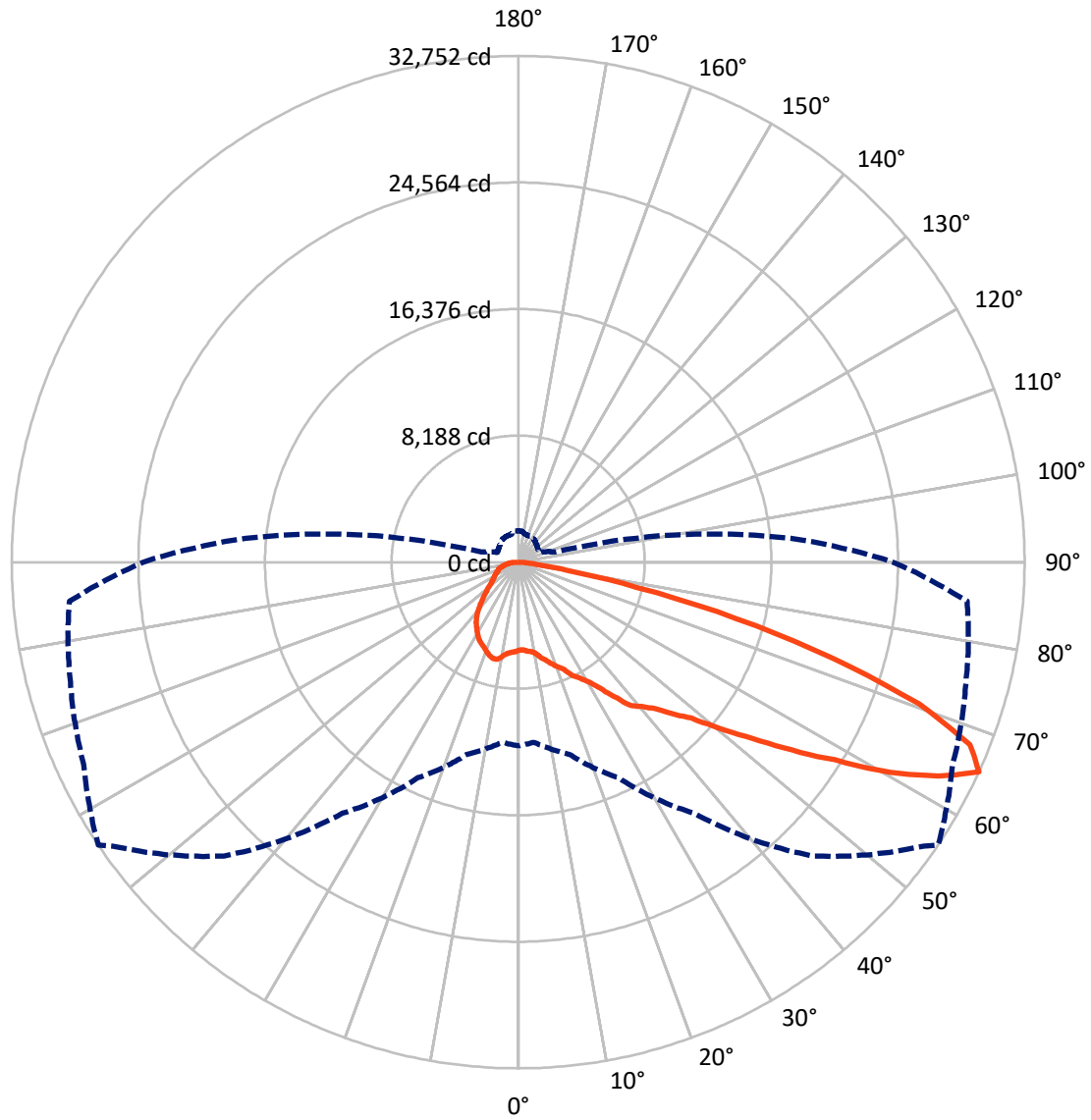
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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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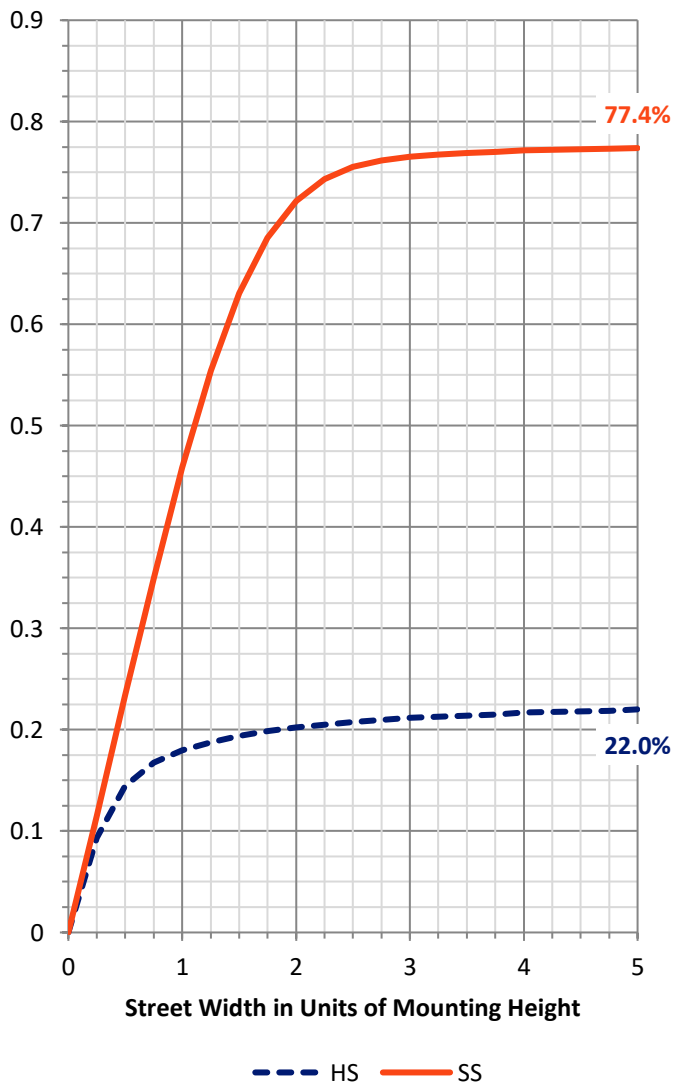
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10649.4	0.0	10649.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	36835.8	0.0	36835.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	47485.2	0.0	47485.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.8	1.2
10°-20°	1834.0	3.9
20°-30°	3265.6	6.9
30°-40°	4890.1	10.3
40°-50°	7245.3	15.3
50°-60°	11163.9	23.5
60°-70°	12639.0	26.6
70°-80°	5245.3	11.0
80°-90°	637.2	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°	47485.2	100.0
0°-180°	47485.2	100.0

Coefficient of Utilization

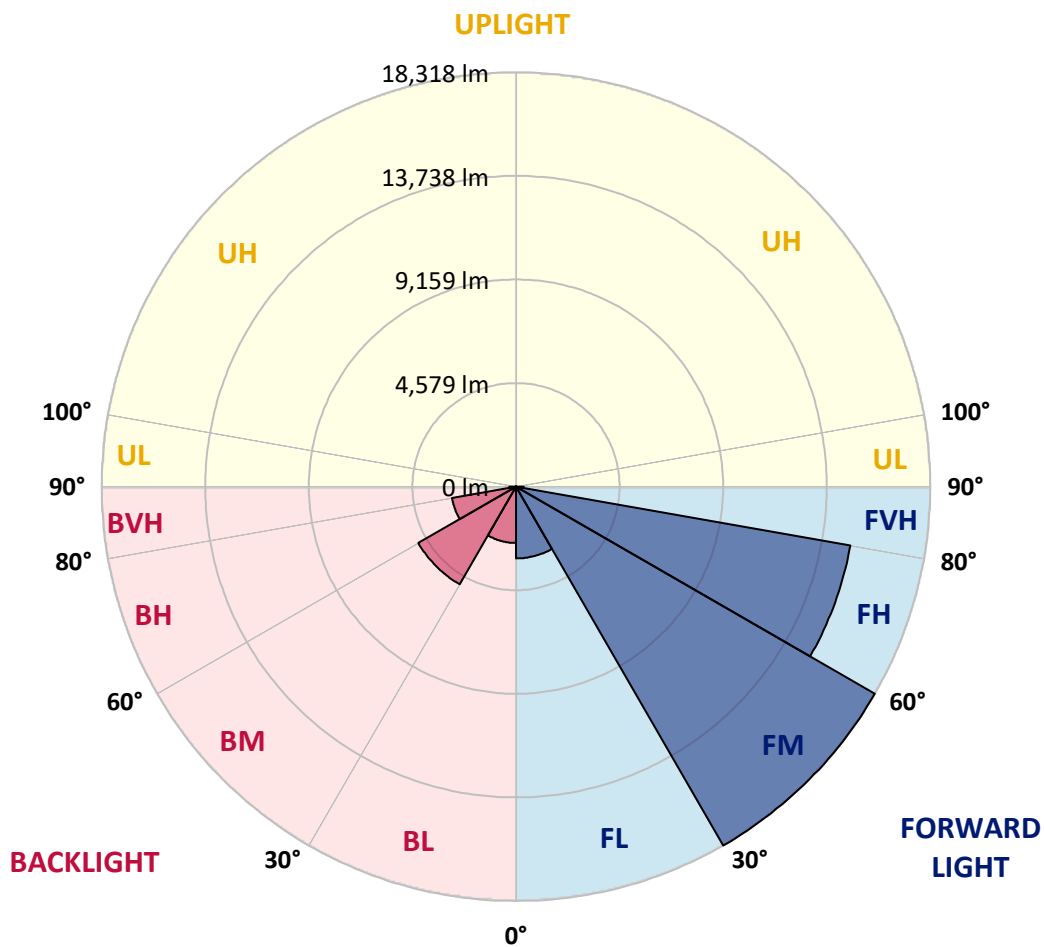


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3173.4	6.7			
FM (30°-60°)	18317.7	38.6			
FH (60°-80°)	15008.6	31.6			G5
FVH (80°-90°)	336.1	0.7			G3/500
BL (0°-30°)	2491.0	5.2	B3/2500		
BM (30°-60°)	4981.6	10.5	B3/5000		
BH (60°-80°)	2875.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	301.1	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°	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6
2.5°	5550.5	5580.3	5560.4	5620.1	5669.8	5669.8	5709.5	5679.7	5719.5	5774.1
5°	5734.4	5615.1	5679.7	5709.5	5694.6	5719.5	5679.7	5779.1	5714.5	5818.8
7.5°	5779.1	5823.8	5878.5	5828.8	5873.5	5848.7	5853.6	5838.7	5803.9	5888.4
10°	6107.0	6042.4	6166.7	6092.1	6082.2	6072.3	6052.4	5977.9	6062.3	6067.3
12.5°	6484.7	6425.1	6420.1	6360.5	6440.0	6295.9	6325.7	6285.9	6300.8	6320.7
15°	6758.0	6733.2	6847.4	6777.9	6673.5	6608.9	6678.5	6569.2	6623.8	6613.9
17.5°	7299.6	7294.7	7210.2	7095.9	7036.3	6941.9	6927.0	6882.2	6922.0	6902.1
20°	7677.3	7732.0	7746.9	7612.7	7384.1	7279.8	7254.9	7220.1	7264.9	7249.9
22.5°	8253.7	8169.2	8233.8	8000.3	7915.8	7667.4	7577.9	7528.2	7741.9	7687.2
25°	8621.4	8710.9	8646.3	8566.8	8377.9	8069.9	8005.3	8114.6	8199.0	8139.4
27.5°	9451.3	9361.8	9302.2	9063.7	8939.4	8616.5	8541.9	8502.2	8522.0	8556.8
30°	10082.3	10132.0	9997.9	9828.9	9515.9	9187.9	9014.0	8979.2	8909.6	8850.0
32.5°	10981.8	10907.2	10827.7	10718.4	10450.1	10017.7	9848.8	9719.6	9510.9	9232.6
35°	11414.1	11627.7	11568.1	11274.9	11071.2	10907.2	10857.5	10658.8	10484.8	10047.6
37.5°	12134.6	12224.0	12139.6	12045.1	11950.7	11776.8	11717.2	11771.8	11429.0	10708.5
40°	12601.7	12790.5	12964.4	12701.1	12681.2	12716.0	12348.3	12283.7	11578.0	11200.4
42.5°	13555.8	13635.3	13670.0	13660.1	13774.4	13774.4	13073.8	12934.6	12432.7	12124.7
45°	14817.9	14882.5	15006.7	15096.2	14967.0	15031.6	14032.8	13978.1	13530.9	13471.3
47.5°	15911.1	16065.2	16343.4	16606.8	16775.7	16557.1	15463.9	15076.3	14962.0	15319.8
50°	16865.2	16681.3	17332.3	17600.6	18341.0	18703.8	17044.1	16890.0	16706.2	17391.9
52.5°	16959.6	17208.1	18127.3	18664.0	20189.5	20860.4	18982.0	18917.4	18693.8	19483.9
55°	17635.4	17605.6	18529.8	19692.6	21506.4	22634.3	21506.4	21466.6	20979.6	21730.0
57.5°	17521.1	17824.2	18554.7	20179.6	22694.0	24537.5	24433.2	24159.9	23479.1	24090.3
60°	17133.5	17213.0	18102.5	20164.7	23384.7	26490.4	27593.5	27648.2	26256.8	26743.8
62.5°	14937.2	15121.0	16249.0	18579.5	22892.7	27837.0	30679.3	30485.6	29372.5	28815.9
65°	11881.2	11697.3	12870.0	15389.4	19831.8	26882.9	32030.9	32751.5	31002.3	29983.7
67.5°	7284.7	7240.0	8368.0	10589.2	14837.8	22877.8	30952.6	31514.2	30550.1	29735.2
70°	3751.7	3637.4	4343.0	5908.3	9327.0	16785.7	26937.6	27489.2	28408.5	26669.3
72.5°	1749.1	1724.3	2101.9	2906.9	4750.5	9868.7	20860.4	21257.9	23195.9	22485.3
75°	1028.6	1043.5	1257.2	1520.6	2315.6	4651.1	13844.0	14614.2	16716.1	16204.3
77.5°	770.2	770.2	894.4	1058.4	1351.6	1798.8	6832.5	7851.2	9774.3	8790.4
80°	566.5	576.4	685.7	795.1	939.2	929.2	2713.1	3180.2	4482.1	3831.2
82.5°	442.3	457.2	531.7	591.3	660.9	561.5	1113.1	1197.6	1843.5	1465.9
85°	308.1	318.0	417.4	402.5	402.5	313.1	462.1	487.0	730.5	695.7
87.5°	74.5	84.5	203.7	223.6	169.0	94.4	144.1	164.0	263.4	303.1
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°
5699.6	0°	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6	5699.6
5799.0	2.5°	5724.4	5744.3	5828.8	5784.1	5808.9	5704.5	5789.0	5719.5	5779.1	5749.3
5843.7	5°	5883.4	5838.7	5888.4	5853.6	5853.6	5893.4	5953.0	5908.3	5997.7	5958.0
5878.5	7.5°	5948.0	5953.0	5982.8	5987.8	5962.9	6087.2	6092.1	6077.2	6161.7	6141.8
6117.0	10°	6107.0	6112.0	6166.7	6196.5	6171.6	6216.4	6166.7	6126.9	6122.0	6102.1
6305.8	12.5°	6360.5	6410.2	6400.2	6425.1	6430.0	6241.2	6126.9	5933.1	5908.3	5933.1
6584.1	15°	6594.0	6574.1	6584.1	6633.8	6425.1	6122.0	5918.2	5754.2	5764.2	5769.1
6946.8	17.5°	6872.3	6887.2	6902.1	6673.5	6290.9	5933.1	5754.2	5754.2	5704.5	5724.4
7200.3	20°	7190.3	7130.7	7001.5	6678.5	6057.4	5714.5	5659.8	5659.8	5600.2	5560.4
7473.6	22.5°	7438.8	7319.5	7125.7	6524.5	5848.7	5630.0	5495.8	5401.4	5331.9	5252.4
7776.7	25°	7597.8	7533.2	7155.5	6365.4	5694.6	5406.4	5207.6	5063.5	4974.1	4869.7
8015.2	27.5°	7841.3	7717.0	7240.0	6181.6	5525.7	5182.8	4874.7	4651.1	4482.1	4372.8
8377.9	30°	8169.2	7990.3	7180.4	5918.2	5267.3	4795.2	4432.5	4144.2	3950.5	3861.0
8720.8	32.5°	8437.6	8204.0	7130.7	5679.7	4979.1	4402.6	3920.6	3627.5	3518.1	3403.8
9297.2	35°	8949.4	8487.3	7095.9	5545.5	4720.7	4010.1	3503.2	3249.8	3110.7	2941.7
9640.1	37.5°	9341.9	8979.2	7011.4	5267.3	4387.7	3627.5	3185.2	2956.6	2747.9	2569.0
10435.2	40°	9958.1	9664.9	7016.4	4874.7	3995.2	3299.5	2936.7	2698.2	2434.9	2280.8
11612.8	42.5°	11115.9	10340.7	7046.2	4561.7	3552.9	3031.2	2713.1	2429.9	2166.5	2037.3
12954.5	45°	12537.1	11270.0	6862.4	4278.4	3100.7	2777.7	2444.8	2161.6	1992.6	1898.2
14778.2	47.5°	14171.9	12179.3	6613.9	3746.7	2723.1	2509.4	2196.4	2032.4	1908.1	1853.5
17128.6	50°	16000.6	13481.2	6544.3	3259.7	2429.9	2280.8	2077.1	1952.9	1868.4	1803.8
19777.1	52.5°	18355.9	14996.8	6405.2	2757.9	2176.5	2097.0	2032.4	1947.9	1873.4	1818.7
22246.7	55°	20606.9	16676.4	6256.1	2345.4	1997.6	2007.5	2042.3	1967.8	1903.2	1818.7
25014.5	57.5°	23141.2	18390.7	5704.5	2042.3	1863.4	1962.8	2032.4	1947.9	1883.3	1818.7
27846.9	60°	24706.5	19354.7	4626.3	1778.9	1744.2	1878.3	1972.7	1883.3	1813.7	1838.6
29148.9	62.5°	25342.5	18847.9	3488.3	1615.0	1659.7	1764.0	1878.3	1843.5	1793.9	1888.3
29134.0	65°	24259.2	17680.1	2494.5	1475.8	1545.4	1649.7	1793.9	1833.6	1848.5	2032.4
26758.7	67.5°	21585.9	15394.3	1833.6	1361.5	1426.1	1580.2	1853.5	1918.1	1908.1	2136.7
22455.5	70°	17272.7	12040.2	1431.1	1267.1	1381.4	1634.8	1938.0	1938.0	1868.4	2136.7
17128.6	72.5°	12566.9	8487.3	1232.3	1157.8	1267.1	1500.7	1928.0	1923.0	1833.6	1952.9
10907.2	75°	7607.7	4939.3	1088.2	1048.5	1088.2	1287.0	1843.5	1813.7	1689.5	1679.6
5247.4	77.5°	3791.4	2484.6	889.5	929.2	949.1	1078.3	1619.9	1664.7	1495.7	1456.0
2072.1	80°	1600.1	1083.3	740.4	800.0	800.0	909.3	1346.6	1376.4	1242.3	1167.7
819.9	82.5°	730.5	621.1	631.1	695.7	651.0	705.6	1068.4	1103.1	1008.7	884.5
347.8	85°	308.1	352.8	482.0	546.6	482.0	457.2	735.4	775.2	655.9	546.6
149.1	87.5°	139.1	193.8	303.1	397.5	243.5	213.7	392.6	407.5	328.0	243.5
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>
5699.6
5694.6
5903.3
6112.0
6102.1
5943.1
5838.7
5729.4
5500.8
5207.6
4889.6
4422.5
3910.7
3398.9
2926.8
2574.0
2295.7
2047.3
1918.1
1843.5
1813.7
1813.7
1813.7
1813.7
1818.7
1863.4
2032.4
2151.6
2092.0
1883.3
1659.7
1431.1
1142.9
864.6
551.6
228.6
0.0

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