

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: P477549

Luminaire Tested: **IFLD-S-SA6C-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

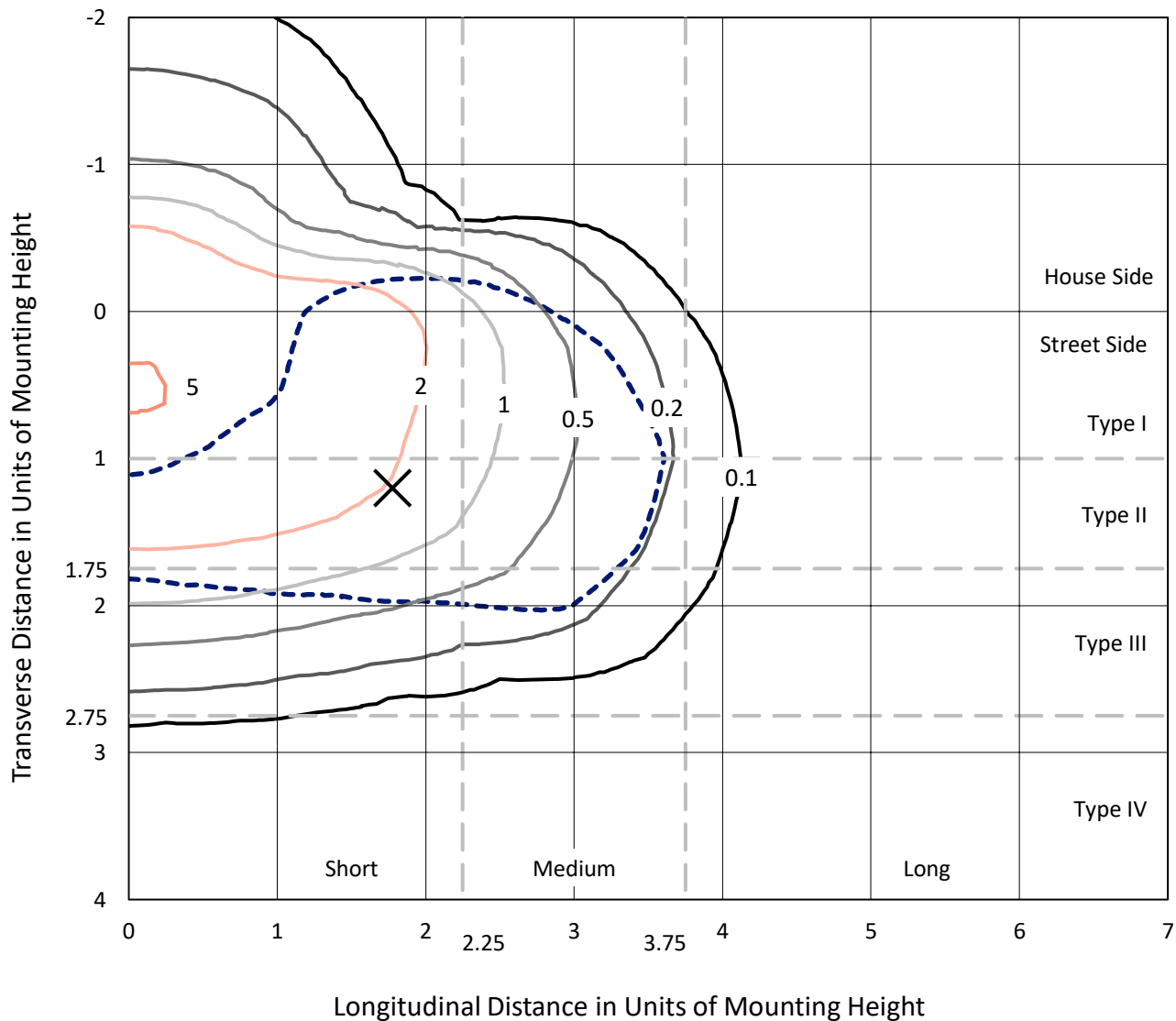
Lumens per Lamp: N/A
Luminaire Lumens: 33628.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

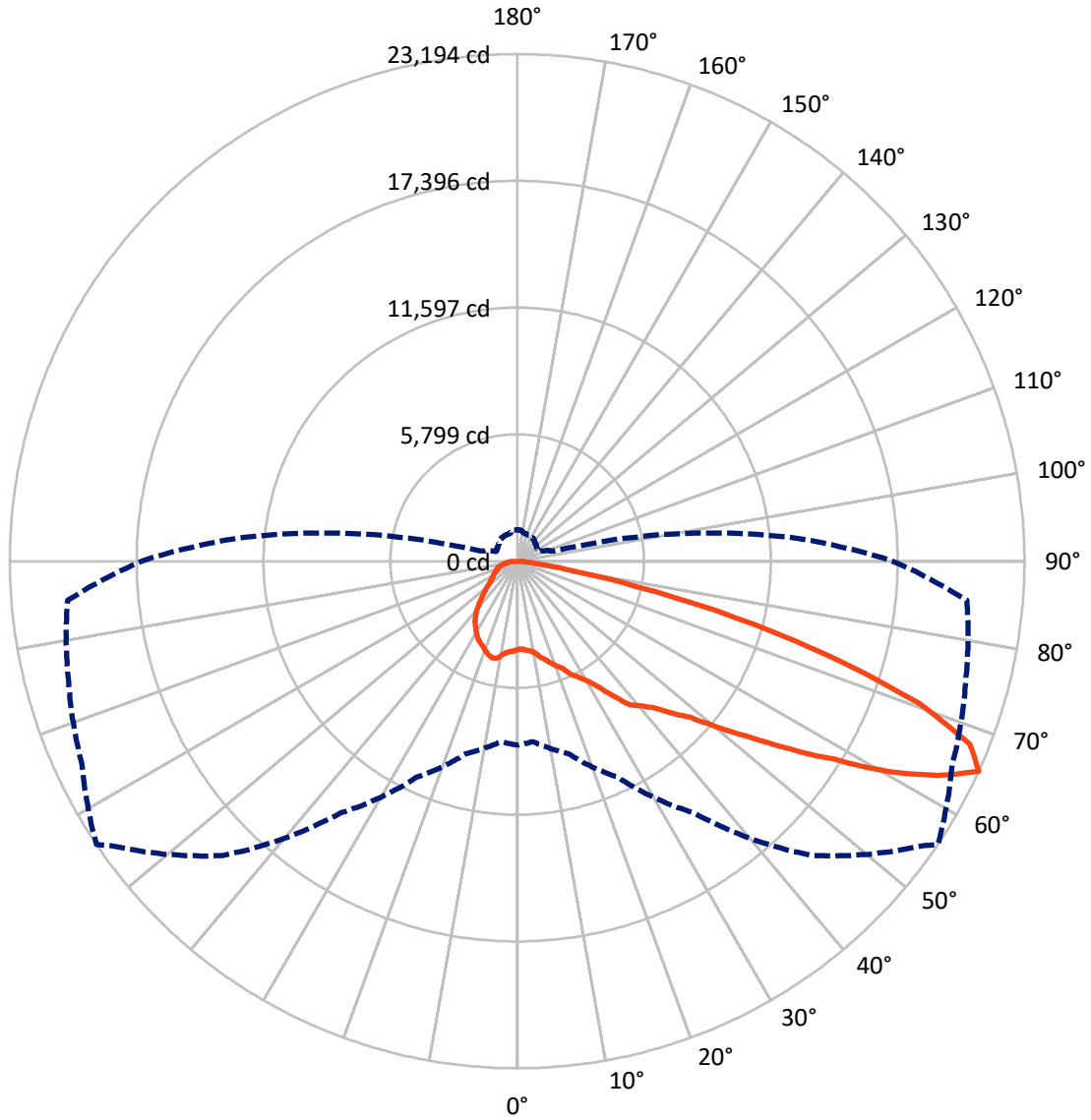
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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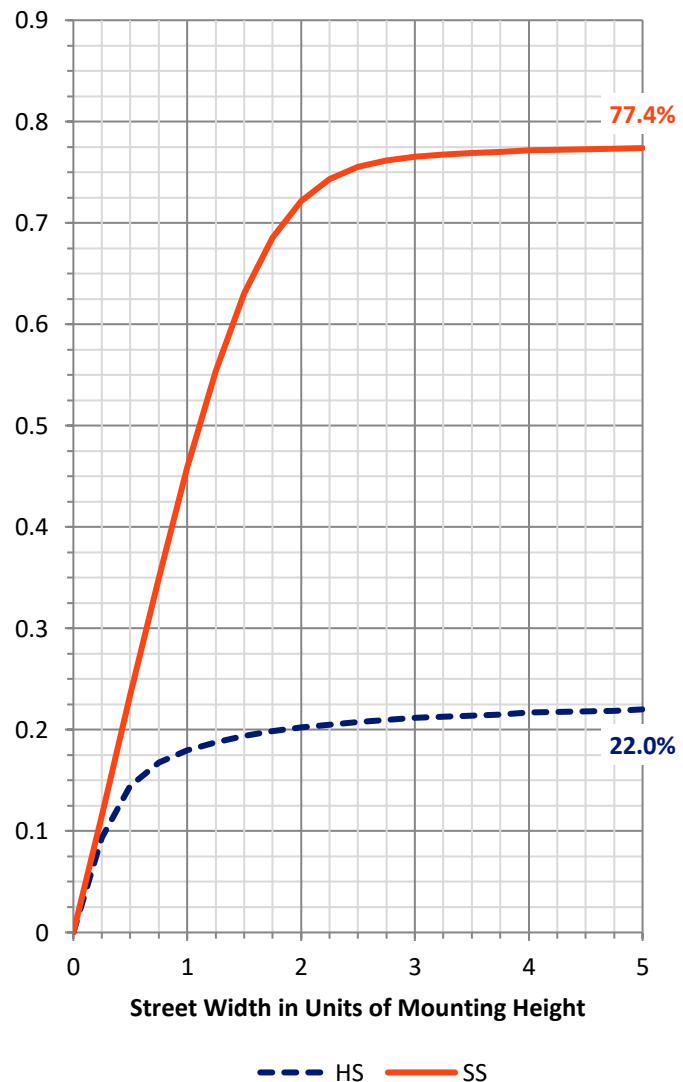
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7541.8	0.0	7541.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	26086.8	0.0	26086.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	33628.6	0.0	33628.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.0	1.2
10°-20°	1298.8	3.9
20°-30°	2312.6	6.9
30°-40°	3463.1	10.3
40°-50°	5131.0	15.3
50°-60°	7906.2	23.5
60°-70°	8950.8	26.6
70°-80°	3714.7	11.0
80°-90°	451.3	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°	33628.6	100.0
0°-180°	33628.6	100.0

Coefficient of Utilization

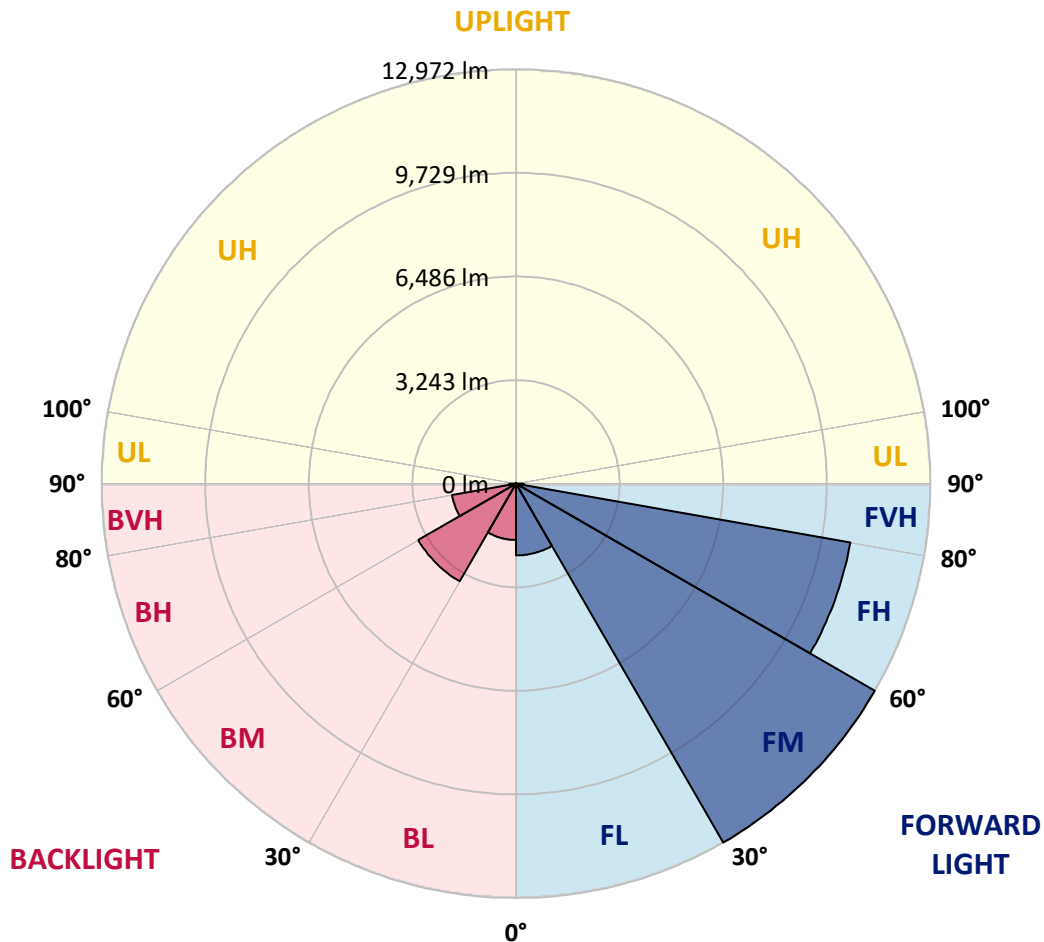


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2247.4	6.7			
FM (30°-60°)	12972.4	38.6			
FH (60°-80°)	10628.9	31.6			G4/12000
FVH (80°-90°)	238.0	0.7			G3/500
BL (0°-30°)	1764.1	5.2	B3/2500		
BM (30°-60°)	3527.9	10.5	B3/5000		
BH (60°-80°)	2036.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	213.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4
2.5°	3930.8	3951.9	3937.9	3980.1	4015.3	4015.3	4043.4	4022.3	4050.5	4089.2
5°	4061.0	3976.6	4022.3	4043.4	4032.9	4050.5	4022.3	4092.7	4046.9	4120.8
7.5°	4092.7	4124.4	4163.1	4127.9	4159.6	4142.0	4145.5	4134.9	4110.3	4170.1
10°	4325.0	4279.2	4367.2	4314.4	4307.4	4300.3	4286.2	4233.5	4293.3	4296.8
12.5°	4592.4	4550.2	4546.7	4504.4	4560.7	4458.7	4479.8	4451.6	4462.2	4476.3
15°	4786.0	4768.4	4849.3	4800.0	4726.1	4680.4	4729.6	4652.2	4690.9	4683.9
17.5°	5169.5	5166.0	5106.2	5025.2	4983.0	4916.2	4905.6	4873.9	4902.1	4888.0
20°	5437.0	5475.7	5486.2	5391.2	5229.4	5155.5	5137.9	5113.2	5144.9	5134.3
22.5°	5845.2	5785.4	5831.1	5665.7	5605.9	5429.9	5366.6	5331.4	5482.7	5444.0
25°	6105.6	6169.0	6123.2	6066.9	5933.2	5715.0	5669.2	5746.7	5806.5	5764.3
27.5°	6693.3	6630.0	6587.7	6418.8	6330.8	6102.1	6049.3	6021.1	6035.2	6059.9
30°	7140.2	7175.4	7080.4	6960.7	6739.0	6506.8	6383.6	6359.0	6309.7	6267.5
32.5°	7777.2	7724.4	7668.1	7590.7	7400.6	7094.5	6974.8	6883.3	6735.5	6538.5
35°	8083.3	8234.7	8192.4	7984.8	7840.5	7724.4	7689.2	7548.4	7425.3	7115.6
37.5°	8593.6	8656.9	8597.1	8530.3	8463.4	8340.2	8298.0	8336.7	8093.9	7583.6
40°	8924.4	9058.1	9181.3	8994.8	8980.7	9005.3	8744.9	8699.2	8199.5	7932.0
42.5°	9600.1	9656.4	9681.0	9674.0	9754.9	9754.9	9258.7	9160.2	8804.7	8586.6
45°	10493.9	10539.7	10627.6	10691.0	10599.5	10645.2	9937.9	9899.2	9582.5	9540.2
47.5°	11268.1	11377.2	11574.3	11760.8	11880.4	11725.6	10951.4	10676.9	10596.0	10849.3
50°	11943.8	11813.6	12274.6	12464.6	12988.9	13245.8	12070.5	11961.4	11831.2	12316.8
52.5°	12010.6	12186.6	12837.6	13217.7	14298.0	14773.1	13442.9	13397.1	13238.8	13798.3
55°	12489.2	12468.1	13122.7	13946.1	15230.6	16029.4	15230.6	15202.4	14857.6	15388.9
57.5°	12408.3	12622.9	13140.3	14291.0	16071.6	17377.2	17303.3	17109.8	16627.7	17060.5
60°	12133.8	12190.1	12820.0	14280.4	16560.8	18760.2	19541.5	19580.2	18594.8	18939.7
62.5°	10578.4	10708.6	11507.4	13157.8	16212.4	19713.9	21726.8	21589.6	20801.3	20407.2
65°	8414.1	8283.9	9114.4	10898.6	14044.7	19038.2	22684.0	23194.3	21955.6	21234.1
67.5°	5159.0	5127.3	5926.1	7499.2	10508.0	16201.9	21920.4	22318.0	21635.3	21058.2
70°	2656.9	2576.0	3075.7	4184.2	6605.3	11887.5	19076.9	19467.6	20118.6	18886.9
72.5°	1238.7	1221.1	1488.6	2058.7	3364.2	6988.9	14773.1	15054.6	16427.1	15923.8
75°	728.5	739.0	890.3	1076.8	1639.9	3293.9	9804.2	10349.6	11838.2	11475.7
77.5°	545.5	545.5	633.4	749.6	957.2	1273.9	4838.7	5560.2	6922.0	6225.3
80°	401.2	408.2	485.6	563.1	665.1	658.1	1921.4	2252.2	3174.2	2713.2
82.5°	313.2	323.8	376.5	418.8	468.0	397.7	788.3	848.1	1305.6	1038.1
85°	218.2	225.2	295.6	285.0	285.0	221.7	327.3	344.9	517.3	492.7
87.5°	52.8	59.8	144.3	158.4	119.6	66.9	102.1	116.1	186.5	214.7
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°
4036.4	0°	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4
4106.8	2.5°	4054.0	4068.1	4127.9	4096.2	4113.8	4039.9	4099.7	4050.5	4092.7	4071.6
4138.4	5°	4166.6	4134.9	4170.1	4145.5	4145.5	4173.6	4215.9	4184.2	4247.5	4219.4
4163.1	7.5°	4212.3	4215.9	4237.0	4240.5	4222.9	4310.9	4314.4	4303.8	4363.7	4349.6
4332.0	10°	4325.0	4328.5	4367.2	4388.3	4370.7	4402.4	4367.2	4339.0	4335.5	4321.4
4465.7	12.5°	4504.4	4539.6	4532.6	4550.2	4553.7	4420.0	4339.0	4201.8	4184.2	4201.8
4662.8	15°	4669.8	4655.7	4662.8	4698.0	4550.2	4335.5	4191.2	4075.1	4082.1	4085.7
4919.7	17.5°	4866.9	4877.4	4888.0	4726.1	4455.2	4201.8	4075.1	4075.1	4039.9	4054.0
5099.2	20°	5092.1	5049.9	4958.4	4729.6	4289.8	4046.9	4008.2	4008.2	3966.0	3937.9
5292.7	22.5°	5268.1	5183.6	5046.4	4620.6	4142.0	3987.1	3892.1	3825.2	3776.0	3719.7
5507.4	25°	5380.7	5334.9	5067.5	4507.9	4032.9	3828.8	3688.0	3585.9	3522.6	3448.7
5676.3	27.5°	5553.1	5465.1	5127.3	4377.7	3913.2	3670.4	3452.2	3293.9	3174.2	3096.8
5933.2	30°	5785.4	5658.7	5085.1	4191.2	3730.2	3395.9	3139.0	2934.9	2797.7	2734.3
6176.0	32.5°	5975.4	5810.0	5049.9	4022.3	3526.1	3117.9	2776.6	2568.9	2491.5	2410.6
6584.2	35°	6337.9	6010.6	5025.2	3927.3	3343.1	2839.9	2481.0	2301.5	2202.9	2083.3
6827.0	37.5°	6615.9	6359.0	4965.4	3730.2	3107.3	2568.9	2255.7	2093.9	1946.1	1819.4
7390.1	40°	7052.2	6844.6	4968.9	3452.2	2829.3	2336.7	2079.8	1910.9	1724.4	1615.3
8224.1	42.5°	7872.2	7323.2	4990.1	3230.5	2516.1	2146.6	1921.4	1720.8	1534.3	1442.8
9174.2	45°	8878.6	7981.3	4859.9	3029.9	2195.9	1967.2	1731.4	1530.8	1411.2	1344.3
10465.8	47.5°	10036.4	8625.3	4683.9	2653.4	1928.5	1777.1	1555.4	1439.3	1351.3	1312.6
12130.3	50°	11331.4	9547.3	4634.6	2308.5	1720.8	1615.3	1471.0	1383.0	1323.2	1277.4
14005.9	52.5°	12999.5	10620.6	4536.1	1953.1	1541.4	1485.1	1439.3	1379.5	1326.7	1288.0
15754.9	55°	14593.6	11810.0	4430.5	1661.0	1414.7	1421.7	1446.3	1393.6	1347.8	1288.0
17715.1	57.5°	16388.4	13024.1	4039.9	1446.3	1319.7	1390.0	1439.3	1379.5	1333.7	1288.0
19720.9	60°	17496.9	13706.8	3276.3	1259.8	1235.2	1330.2	1397.1	1333.7	1284.5	1302.1
20642.9	62.5°	17947.3	13347.9	2470.4	1143.7	1175.4	1249.3	1330.2	1305.6	1270.4	1337.3
20632.4	65°	17180.2	12520.9	1766.6	1045.2	1094.4	1168.3	1270.4	1298.5	1309.1	1439.3
18950.3	67.5°	15286.9	10902.1	1298.5	964.2	1010.0	1119.1	1312.6	1358.4	1351.3	1513.2
15902.7	70°	12232.3	8526.7	1013.5	897.4	978.3	1157.8	1372.4	1372.4	1323.2	1513.2
12130.3	72.5°	8899.8	6010.6	872.7	819.9	897.4	1062.8	1365.4	1361.9	1298.5	1383.0
7724.4	75°	5387.7	3498.0	770.7	742.5	770.7	911.4	1305.6	1284.5	1196.5	1189.4
3716.2	77.5°	2685.1	1759.5	629.9	658.1	672.1	763.6	1147.2	1178.9	1059.2	1031.1
1467.5	80°	1133.1	767.2	524.3	566.6	566.6	644.0	953.7	974.8	879.8	827.0
580.6	82.5°	517.3	439.9	446.9	492.7	461.0	499.7	756.6	781.2	714.4	626.4
246.3	85°	218.2	249.9	341.4	387.1	341.4	323.8	520.8	549.0	464.5	387.1
105.6	87.5°	98.5	137.2	214.7	281.5	172.4	151.3	278.0	288.6	232.3	172.4
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>
4036.4
4032.9
4180.7
4328.5
4321.4
4208.8
4134.9
4057.5
3895.6
3688.0
3462.8
3132.0
2769.5
2407.1
2072.7
1822.9
1625.8
1449.9
1358.4
1305.6
1284.5
1284.5
1284.5
1284.5
1288.0
1319.7
1439.3
1523.8
1481.5
1333.7
1175.4
1013.5
809.4
612.3
390.6
161.9
0.0

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