

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: P477558

Luminaire Tested: **IFLD-L-SA7B-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477558
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

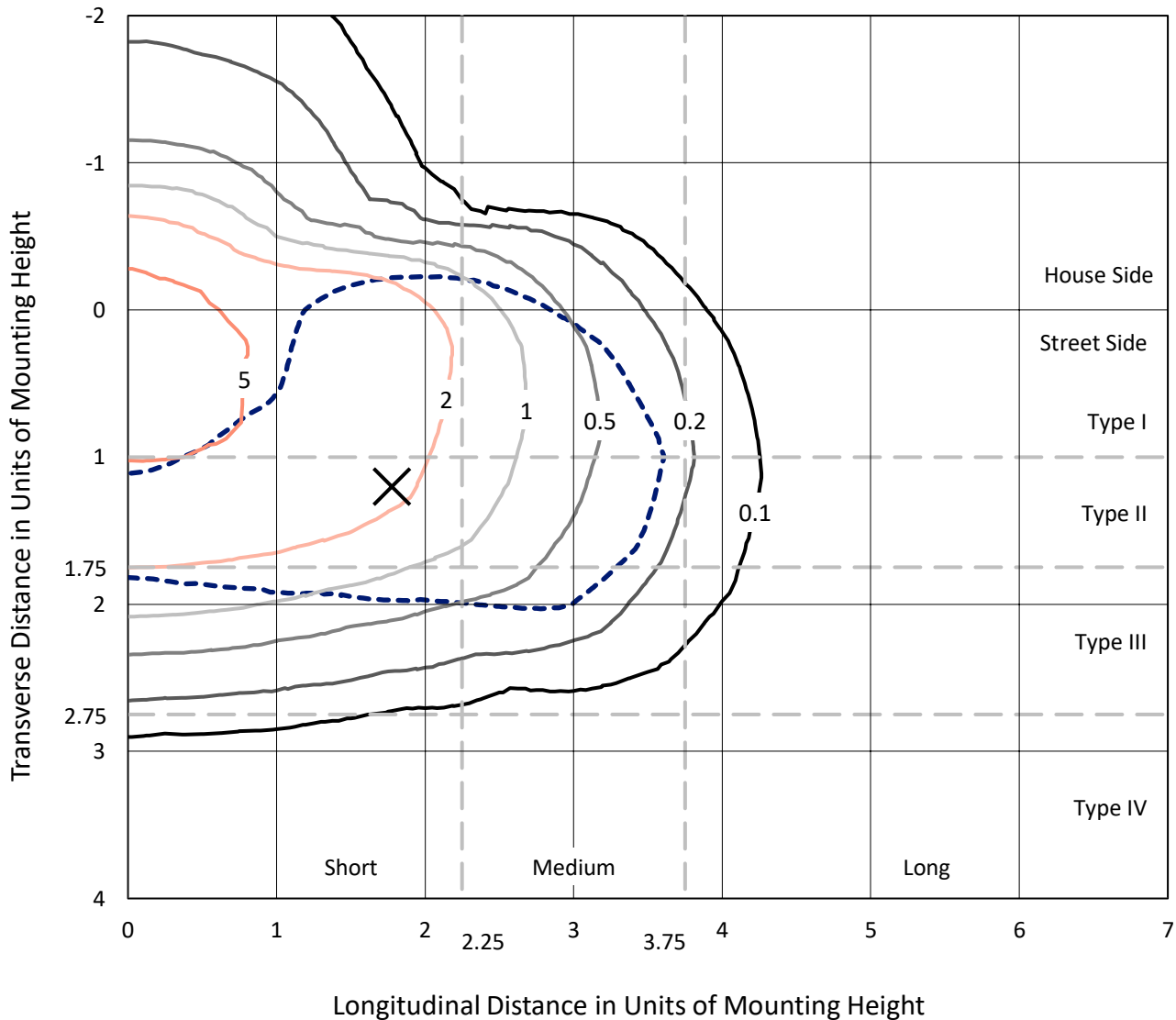
Lumens per Lamp: N/A
Luminaire Lumens: 28821.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

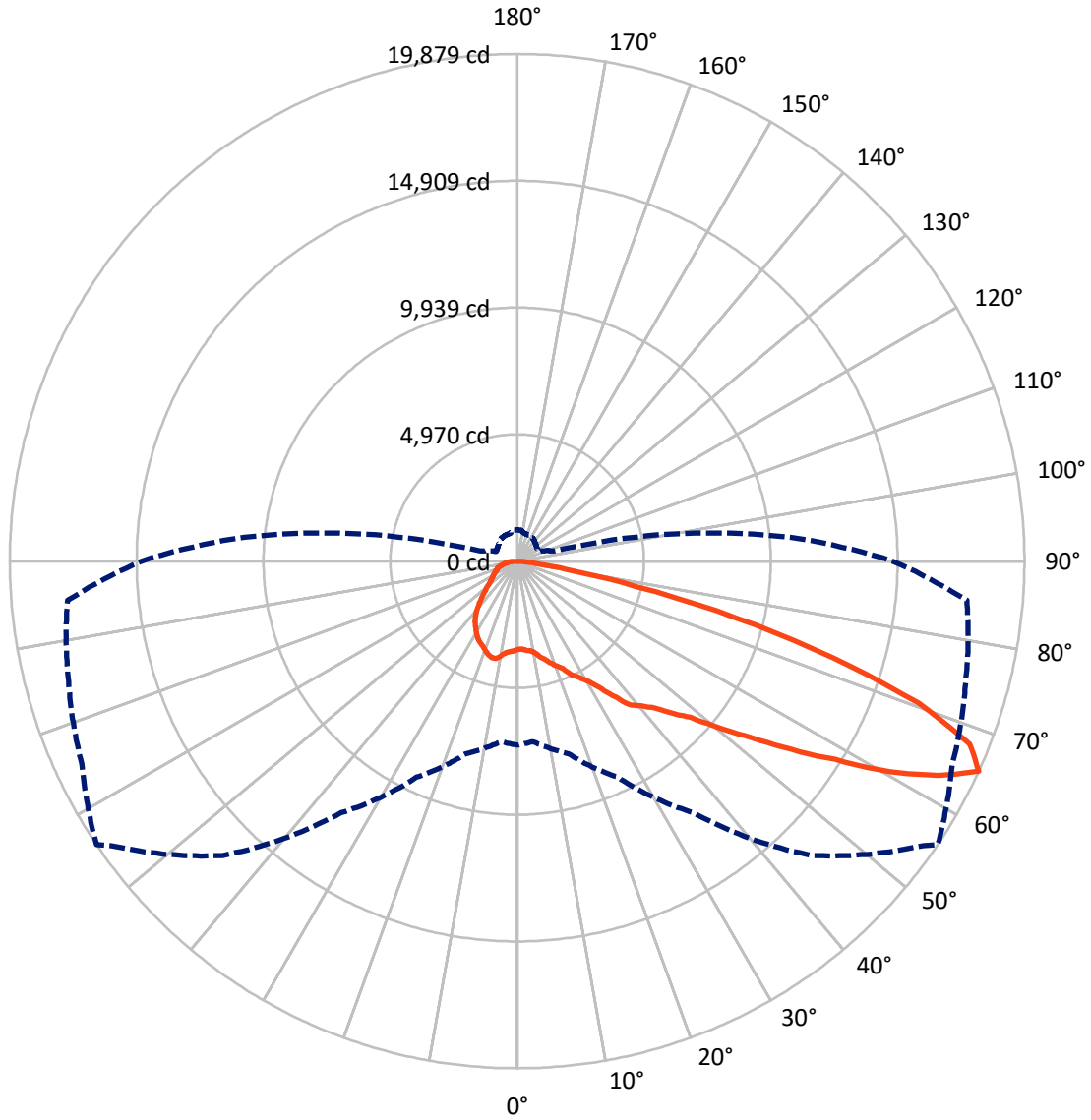
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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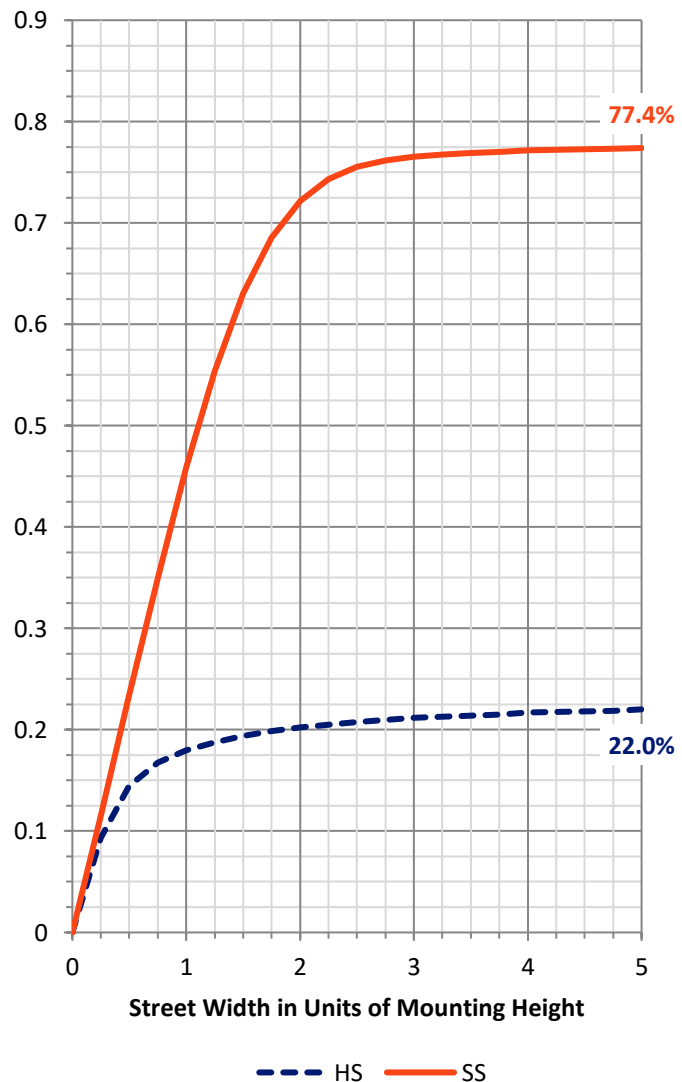
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6463.7	0.0	6463.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	22357.7	0.0	22357.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	28821.4	0.0	28821.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.8	1.2
10°-20°	1113.2	3.9
20°-30°	1982.1	6.9
30°-40°	2968.1	10.3
40°-50°	4397.6	15.3
50°-60°	6776.0	23.5
60°-70°	7671.3	26.6
70°-80°	3183.7	11.0
80°-90°	386.8	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°	28821.4	100.0
0°-180°	28821.4	100.0

Coefficient of Utilization

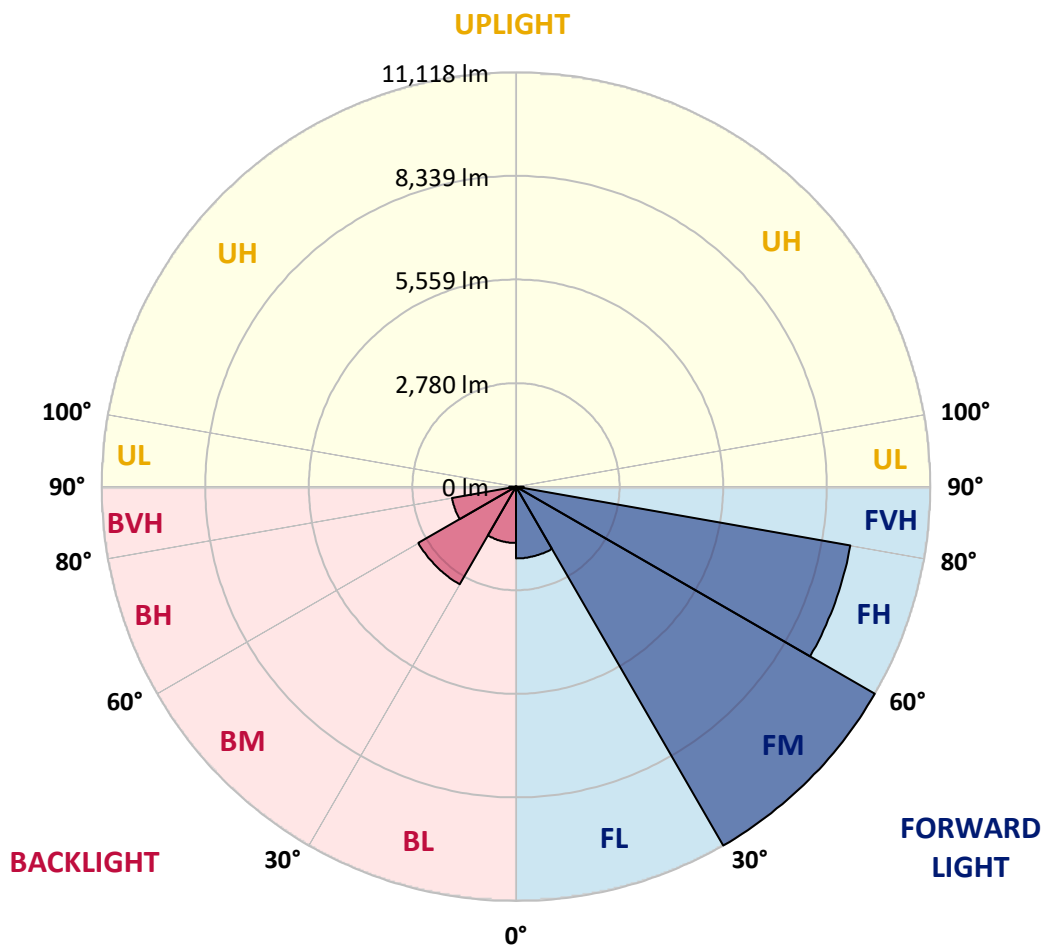


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.1	6.7			
FM (30°-60°)	11118.0	38.6			
FH (60°-80°)	9109.6	31.6			G4/12000
FVH (80°-90°)	204.0	0.7			G2/225
BL (0°-30°)	1511.9	5.2	B3/2500		
BM (30°-60°)	3023.6	10.5	B3/5000		
BH (60°-80°)	1745.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	182.8	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°	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4
2.5°	3368.9	3387.0	3374.9	3411.1	3441.3	3441.3	3465.4	3447.3	3471.5	3504.6
5°	3480.5	3408.1	3447.3	3465.4	3456.4	3471.5	3447.3	3507.7	3468.4	3531.8
7.5°	3507.7	3534.8	3568.0	3537.8	3565.0	3549.9	3552.9	3543.8	3522.7	3574.0
10°	3706.7	3667.5	3742.9	3697.7	3691.6	3685.6	3673.5	3628.3	3679.6	3682.6
12.5°	3935.9	3899.7	3896.7	3860.5	3908.8	3821.3	3839.4	3815.3	3824.3	3836.4
15°	4101.8	4086.7	4156.1	4113.9	4050.5	4011.3	4053.6	3987.2	4020.4	4014.3
17.5°	4430.6	4427.5	4376.3	4306.9	4270.7	4213.4	4204.4	4177.2	4201.3	4189.3
20°	4659.8	4693.0	4702.0	4620.6	4481.8	4418.5	4403.4	4382.3	4409.4	4400.4
22.5°	5009.6	4958.4	4997.6	4855.8	4804.5	4653.7	4599.5	4569.3	4699.0	4665.8
25°	5232.8	5287.1	5247.9	5199.6	5085.0	4898.0	4858.8	4925.2	4976.5	4940.3
27.5°	5736.5	5682.2	5646.0	5501.3	5425.9	5229.8	5184.6	5160.4	5172.5	5193.6
30°	6119.5	6149.7	6068.3	5965.7	5775.7	5576.7	5471.1	5450.0	5407.8	5371.6
32.5°	6665.4	6620.2	6571.9	6505.6	6342.7	6080.3	5977.8	5899.4	5772.7	5603.8
35°	6927.8	7057.5	7021.3	6843.4	6719.7	6620.2	6590.0	6469.4	6363.8	6098.4
37.5°	7365.2	7419.5	7368.2	7310.9	7253.6	7148.0	7111.8	7145.0	6936.9	6499.6
40°	7648.7	7763.3	7868.8	7709.0	7696.9	7718.0	7494.9	7455.6	7027.4	6798.1
42.5°	8227.8	8276.0	8297.1	8291.1	8360.5	8360.5	7935.2	7850.7	7546.1	7359.1
45°	8993.8	9033.0	9108.4	9162.7	9084.3	9123.5	8517.3	8484.1	8212.7	8176.5
47.5°	9657.4	9750.8	9919.7	10079.6	10182.1	10049.4	9385.9	9150.7	9081.3	9298.4
50°	10236.4	10124.8	10519.9	10682.8	11132.2	11352.4	10345.0	10251.5	10139.9	10556.1
52.5°	10293.7	10444.5	11002.5	11328.2	12254.2	12661.3	11521.3	11482.1	11346.3	11825.9
55°	10703.9	10685.8	11246.8	11952.6	13053.4	13738.1	13053.4	13029.3	12733.7	13189.1
57.5°	10634.5	10818.5	11261.9	12248.1	13774.2	14893.2	14829.9	14664.0	14250.8	14621.7
60°	10399.3	10447.6	10987.4	12239.1	14193.5	16078.5	16748.1	16781.2	15936.7	16232.3
62.5°	9066.2	9177.8	9862.4	11277.0	13894.9	16895.8	18621.0	18503.4	17827.8	17490.0
65°	7211.3	7099.8	7811.5	9340.7	12037.0	16316.8	19441.4	19878.7	18817.1	18198.8
67.5°	4421.5	4394.4	5079.0	6427.2	9005.9	13885.8	18786.9	19127.7	18542.6	18048.0
70°	2277.1	2207.7	2636.0	3586.1	5661.1	10188.2	16349.9	16684.7	17242.7	16187.1
72.5°	1061.6	1046.6	1275.8	1764.4	2883.3	5989.9	12661.3	12902.6	14078.9	13647.6
75°	624.3	633.4	763.1	922.9	1405.5	2823.0	8402.7	8870.2	10145.9	9835.3
77.5°	467.5	467.5	542.9	642.4	820.4	1091.8	4147.1	4765.3	5932.5	5335.4
80°	343.8	349.9	416.2	482.6	570.0	564.0	1646.8	1930.3	2720.5	2325.4
82.5°	268.4	277.5	322.7	358.9	401.1	340.8	675.6	726.9	1118.9	889.7
85°	187.0	193.0	253.3	244.3	244.3	190.0	280.5	295.6	443.4	422.2
87.5°	45.2	51.3	123.7	135.7	102.5	57.3	87.5	99.5	159.8	184.0
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°
3459.4	0°	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4	3459.4
3519.7	2.5°	3474.5	3486.5	3537.8	3510.7	3525.7	3462.4	3513.7	3471.5	3507.7	3489.6
3546.9	5°	3571.0	3543.8	3574.0	3552.9	3552.9	3577.0	3613.2	3586.1	3640.4	3616.2
3568.0	7.5°	3610.2	3613.2	3631.3	3634.3	3619.2	3694.6	3697.7	3688.6	3739.9	3727.8
3712.7	10°	3706.7	3709.7	3742.9	3761.0	3745.9	3773.1	3742.9	3718.8	3715.8	3703.7
3827.4	12.5°	3860.5	3890.7	3884.7	3899.7	3902.8	3788.1	3718.8	3601.1	3586.1	3601.1
3996.2	15°	4002.3	3990.2	3996.2	4026.4	3899.7	3715.8	3592.1	3492.6	3498.6	3501.6
4216.4	17.5°	4171.2	4180.2	4189.3	4050.5	3818.3	3601.1	3492.6	3492.6	3462.4	3474.5
4370.2	20°	4364.2	4328.0	4249.6	4053.6	3676.5	3468.4	3435.3	3435.3	3399.1	3374.9
4536.1	22.5°	4515.0	4442.6	4325.0	3960.1	3549.9	3417.2	3335.7	3278.4	3236.2	3188.0
4720.1	25°	4611.5	4572.3	4343.1	3863.5	3456.4	3281.4	3160.8	3073.3	3019.1	2955.7
4864.9	27.5°	4759.3	4683.9	4394.4	3752.0	3353.8	3145.7	2958.7	2823.0	2720.5	2654.1
5085.0	30°	4958.4	4849.8	4358.2	3592.1	3197.0	2910.5	2690.3	2515.4	2397.7	2343.5
5293.1	32.5°	5121.2	4979.5	4328.0	3447.3	3022.1	2672.2	2379.7	2201.7	2135.4	2066.0
5643.0	35°	5431.9	5151.4	4306.9	3365.9	2865.2	2433.9	2126.3	1972.5	1888.0	1785.5
5851.1	37.5°	5670.2	5450.0	4255.6	3197.0	2663.2	2201.7	1933.3	1794.5	1667.9	1559.3
6333.7	40°	6044.1	5866.2	4258.6	2958.7	2424.9	2002.6	1782.5	1637.7	1477.9	1384.4
7048.5	42.5°	6746.9	6276.4	4276.7	2768.7	2156.5	1839.8	1646.8	1474.8	1315.0	1236.6
7862.8	45°	7609.5	6840.4	4165.1	2596.8	1882.0	1686.0	1483.9	1312.0	1209.4	1152.1
8969.7	47.5°	8601.7	7392.3	4014.3	2274.1	1652.8	1523.1	1333.1	1233.6	1158.2	1125.0
10396.3	50°	9711.6	8182.5	3972.1	1978.5	1474.8	1384.4	1260.7	1185.3	1134.0	1094.8
12003.8	52.5°	11141.2	9102.4	3887.7	1673.9	1321.0	1272.8	1233.6	1182.3	1137.0	1103.9
13502.8	55°	12507.5	10121.8	3797.2	1423.6	1212.4	1218.5	1239.6	1194.4	1155.1	1103.9
15182.7	57.5°	14045.7	11162.4	3462.4	1239.6	1131.0	1191.3	1233.6	1182.3	1143.1	1103.9
16901.9	60°	14995.7	11747.5	2807.9	1079.7	1058.6	1140.1	1197.4	1143.1	1100.9	1115.9
17692.1	62.5°	15381.8	11439.8	2117.3	980.2	1007.4	1070.7	1140.1	1118.9	1088.8	1146.1
17683.0	65°	14724.3	10731.1	1514.1	895.8	938.0	1001.3	1088.8	1112.9	1122.0	1233.6
16241.4	67.5°	13101.7	9343.7	1112.9	826.4	865.6	959.1	1125.0	1164.2	1158.2	1296.9
13629.5	70°	10483.7	7307.9	868.6	769.1	838.5	992.3	1176.3	1176.3	1134.0	1296.9
10396.3	72.5°	7627.6	5151.4	748.0	702.7	769.1	910.8	1170.2	1167.2	1112.9	1185.3
6620.2	75°	4617.6	2997.9	660.5	636.4	660.5	781.2	1118.9	1100.9	1025.5	1019.4
3184.9	77.5°	2301.2	1508.0	539.9	564.0	576.1	654.5	983.2	1010.4	907.8	883.7
1257.7	80°	971.2	657.5	449.4	485.6	485.6	551.9	817.3	835.4	754.0	708.8
497.6	82.5°	443.4	377.0	383.0	422.2	395.1	428.3	648.4	669.6	612.3	536.9
211.1	85°	187.0	214.1	292.6	331.8	292.6	277.5	446.4	470.5	398.1	331.8
90.5	87.5°	84.4	117.6	184.0	241.3	147.8	129.7	238.3	247.3	199.1	147.8
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>
3459.4
3456.4
3583.1
3709.7
3703.7
3607.2
3543.8
3477.5
3338.8
3160.8
2967.8
2684.3
2373.6
2063.0
1776.4
1562.3
1393.4
1242.6
1164.2
1118.9
1100.9
1100.9
1100.9
1100.9
1103.9
1131.0
1233.6
1305.9
1269.8
1143.1
1007.4
868.6
693.7
524.8
334.8
138.7
0.0

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