

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: P477719

Luminaire Tested: **IFLD-L-SA8B-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477719
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

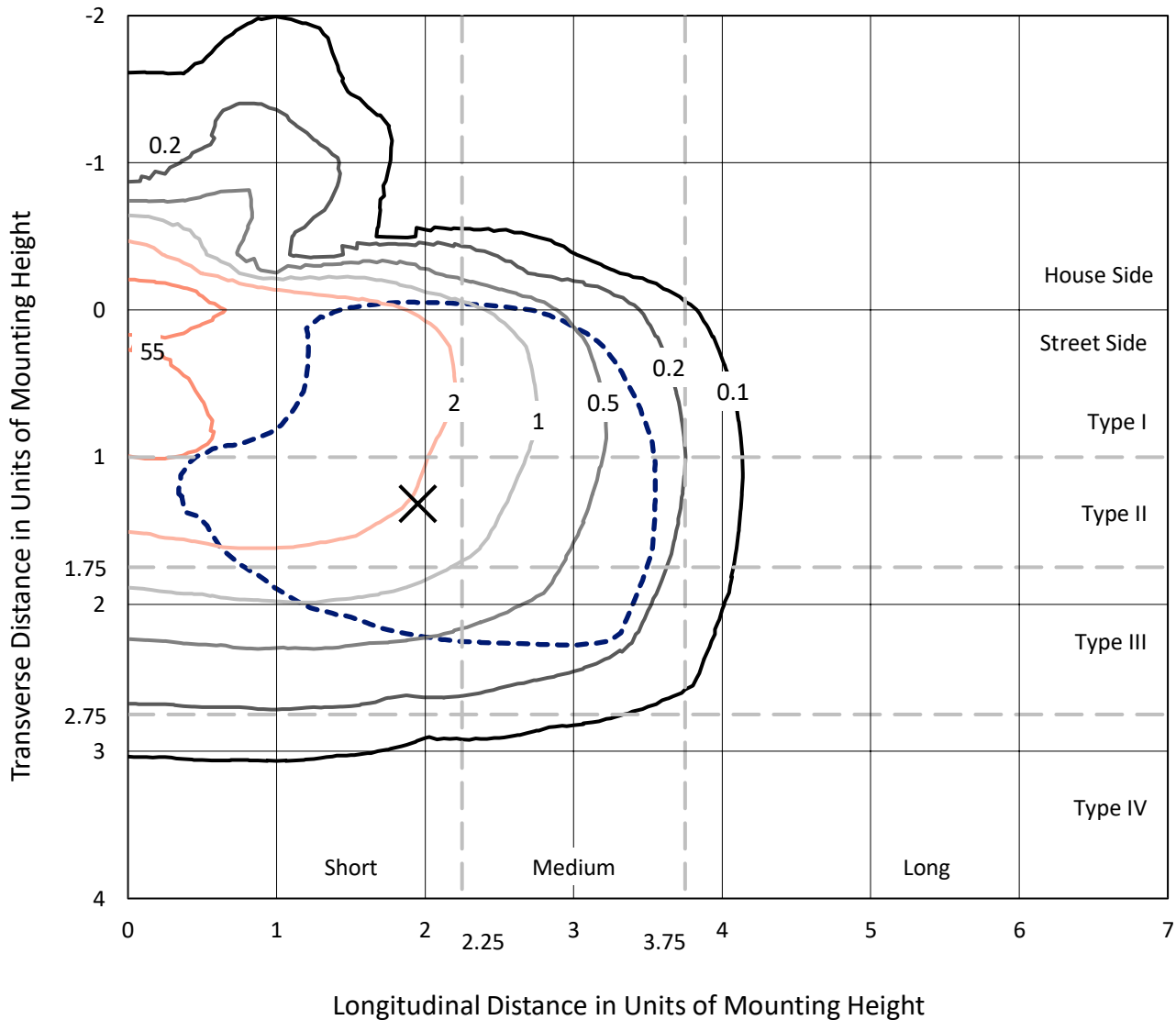
Lumens per Lamp: N/A
Luminaire Lumens: 36404.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

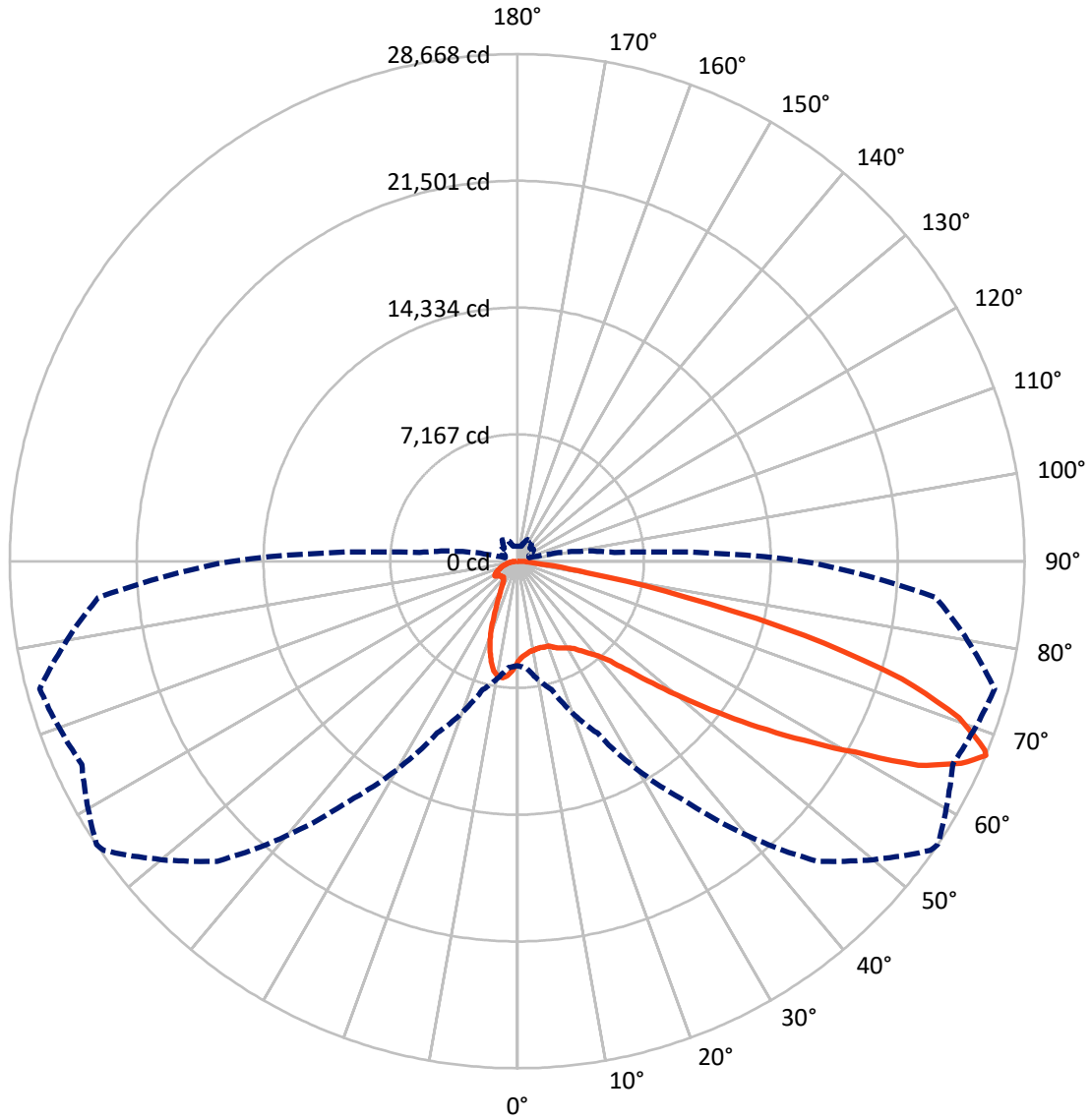
✕ Max cd
 - - - 1/2 Max cd



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 67-Deg Vertical

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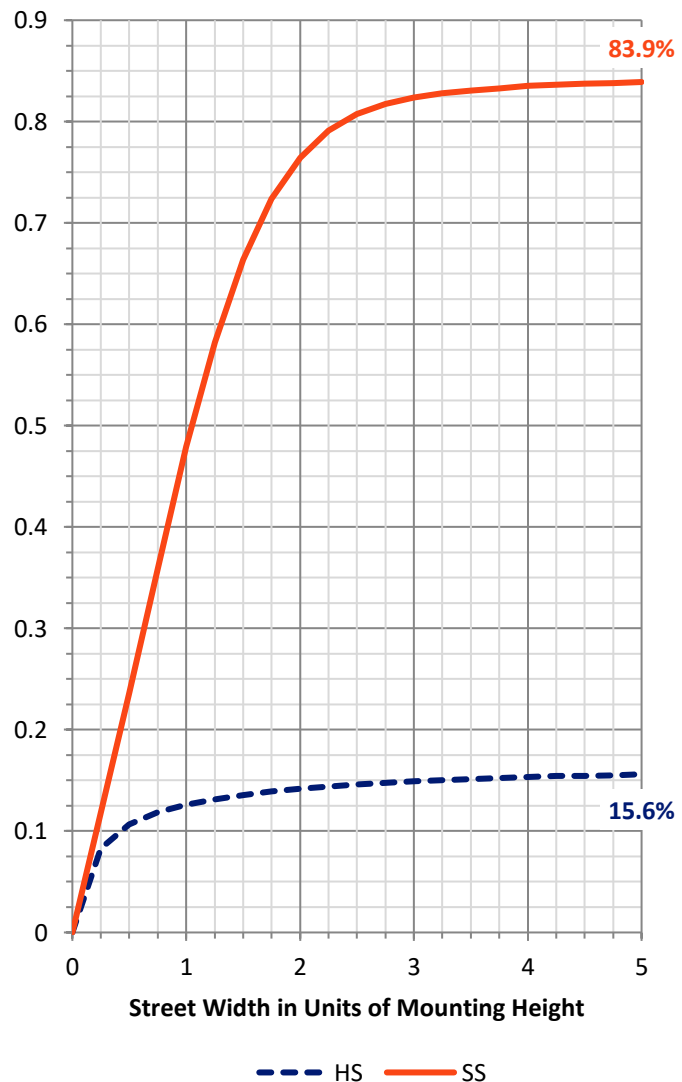
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5763.1	0.0	5763.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	30641.0	0.0	30641.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	36404.1	0.0	36404.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.7	1.5
10°-20°	1488.7	4.1
20°-30°	2334.7	6.4
30°-40°	3332.9	9.2
40°-50°	5030.3	13.8
50°-60°	8007.3	22.0
60°-70°	10236.8	28.1
70°-80°	4991.1	13.7
80°-90°	436.6	1.2
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°	36404.1	100.0
0°-180°	36404.1	100.0

Coefficient of Utilization

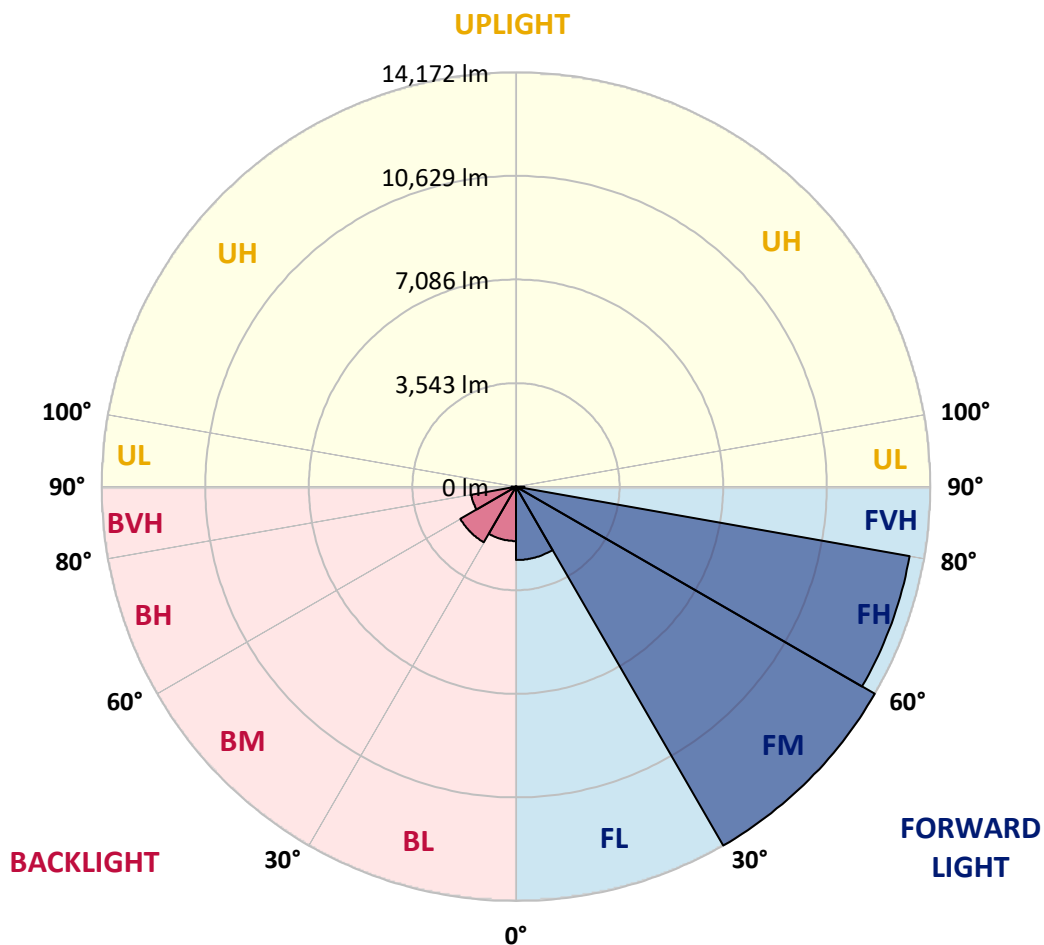


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2508.7	6.9			
FM (30°-60°)	14171.8	38.9			
FH (60°-80°)	13670.6	37.6			G5
FVH (80°-90°)	290.0	0.8			G3/500
BL (0°-30°)	1860.5	5.1	B3/2500		
BM (30°-60°)	2198.7	6.0	B2/2500		
BH (60°-80°)	1557.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	146.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4
2.5°	5203.4	5182.0	5207.7	5182.0	5297.3	5365.6	5386.9	5416.8	5523.5	5626.0
5°	4985.7	4891.8	4994.2	5028.4	5036.9	5152.2	5271.7	5293.0	5348.5	5515.0
7.5°	4622.9	4729.6	4691.2	4793.6	4900.3	5015.6	5211.9	5156.4	5361.3	5519.3
10°	4546.0	4554.6	4597.2	4635.7	4729.6	4879.0	5152.2	5118.0	5327.2	5664.4
12.5°	4622.9	4622.9	4610.1	4580.2	4686.9	4832.0	5049.7	5066.8	5395.5	5707.1
15°	4891.8	4943.0	4806.4	4827.7	4785.1	4832.0	5024.1	5062.5	5421.1	5741.2
17.5°	5549.1	5532.1	5369.9	5143.6	4955.8	4925.9	5058.3	5100.9	5395.5	5839.4
20°	6189.4	6155.3	5873.5	5638.8	5267.4	5092.4	5113.7	5118.0	5438.2	5903.4
22.5°	6902.3	6991.9	6684.6	6206.5	5745.5	5310.1	5224.7	5293.0	5536.3	5937.6
25°	8020.6	7828.6	7563.9	6936.4	6193.7	5647.3	5408.3	5442.4	5630.2	6022.9
27.5°	8827.4	8750.6	8336.5	7828.6	6821.2	5912.0	5506.5	5570.5	5801.0	6018.7
30°	9604.3	9604.3	9352.4	8592.6	7482.8	6355.9	5715.6	5685.7	5719.9	6010.1
32.5°	10513.5	10389.7	10026.9	9523.2	8315.2	6761.4	5882.1	5890.6	5890.6	6168.1
35°	10991.6	11192.2	10948.9	10129.3	8951.2	7435.8	6283.3	6219.3	6172.3	6343.1
37.5°	11691.6	11811.1	11555.0	11072.7	9740.9	7982.2	6637.6	6586.4	6313.2	6479.7
40°	12114.2	12092.8	12084.3	11862.3	10786.7	8626.8	7158.4	7026.1	6659.0	6962.0
42.5°	12353.2	12310.5	12835.6	12699.0	11772.7	9574.4	7811.5	7738.9	7333.4	7820.0
45°	12622.2	12938.0	13369.1	13753.3	12921.0	10906.2	8917.0	8814.6	8451.8	9070.7
47.5°	12856.9	13245.4	13796.0	14205.8	13958.2	12353.2	10283.0	10308.6	10069.5	10705.6
50°	13249.6	13288.0	14035.0	14863.1	15055.2	13689.3	12118.5	12075.8	11969.1	12861.2
52.5°	13130.1	13245.4	14188.7	15247.3	15563.2	15102.2	14090.5	14218.6	14077.7	15200.4
55°	11183.6	11529.4	14094.8	15652.8	16766.9	16698.6	16626.1	16540.7	16532.2	17829.8
57.5°	10300.1	10581.8	12417.3	16101.0	18056.0	18559.7	19029.3	19123.2	19118.9	20685.5
60°	9719.5	10009.8	11738.6	15857.7	19153.1	20997.1	21897.7	21910.6	21884.9	23737.5
62.5°	8584.1	8865.8	10564.7	14525.9	19456.1	23246.6	25252.8	25419.3	24245.5	26366.9
65°	7218.1	7448.6	8946.9	12489.8	18649.4	24676.6	27775.6	27579.2	26234.6	27869.5
67°	5903.4	6057.1	7516.9	10722.6	16540.7	23989.3	28505.5	28667.7	27152.4	27933.5
67.5°	5527.8	5668.7	7047.4	10120.8	15738.2	23468.6	28531.1	28505.5	27169.4	27946.3
70°	3837.4	3897.2	4802.1	6962.0	11593.4	19827.5	26448.0	26507.8	26029.7	26431.0
72.5°	2544.1	2633.7	3210.0	4388.1	6834.0	14427.8	22106.9	22747.2	22444.1	21671.5
75°	1639.1	1690.4	2100.1	2612.4	3363.6	8217.0	16331.5	16758.4	16062.6	13403.3
77.5°	917.7	973.2	1267.8	1587.9	1639.1	3419.1	9173.1	9702.5	8221.3	5694.3
80°	572.0	644.6	956.2	943.4	781.1	1255.0	3781.9	4050.9	3286.8	1959.3
82.5°	431.1	486.6	738.5	661.6	439.7	559.2	1417.2	1519.6	1203.7	755.5
85°	294.5	371.4	533.6	409.8	230.5	268.9	563.5	606.1	550.6	367.1
87.5°	106.7	157.9	277.5	204.9	102.4	81.1	183.5	204.9	196.4	166.5
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°
5664.4	0°	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4
5715.6	2.5°	5796.7	5856.5	5886.4	6061.4	6133.9	6121.1	6138.2	6163.8	6189.4	6223.6
5788.2	5°	5843.7	6027.2	6125.4	6330.3	6466.9	6407.1	6484.0	6462.6	6432.7	6428.5
5920.5	7.5°	5997.3	6232.1	6526.6	6582.1	6641.9	6492.5	6364.4	6189.4	6146.7	5997.3
6031.5	10°	6270.5	6462.6	6821.2	6842.5	6577.9	6193.7	5907.7	5544.9	5540.6	5322.9
6202.2	12.5°	6530.9	6748.6	7038.9	6915.1	6283.3	5758.3	5293.0	4896.0	4729.6	4618.6
6304.7	15°	6693.1	7051.7	7205.3	6671.8	5766.8	5058.3	4456.4	4029.5	3858.8	3777.7
6432.7	17.5°	6842.5	7341.9	7273.6	6244.9	5130.8	4336.9	3619.7	3248.4	3201.4	3141.7
6637.6	20°	7047.4	7448.6	7030.3	5690.0	4409.4	3406.3	2949.6	2770.3	2813.0	2838.6
6659.0	22.5°	7239.5	7504.1	6723.0	5083.9	3483.2	2697.7	2471.5	2509.9	2573.9	2659.3
6710.2	25°	7324.9	7593.8	6308.9	4247.2	2650.8	2270.9	2219.7	2283.7	2390.4	2394.7
6782.8	27.5°	7380.4	7529.8	5809.5	3431.9	2095.9	1984.9	2061.7	2108.7	2121.5	2172.7
6936.4	30°	7478.5	7397.4	5177.8	2454.4	1758.6	1762.9	1861.1	1861.1	1861.1	1899.5
7090.1	32.5°	7649.3	7307.8	4439.3	1792.8	1515.3	1651.9	1626.3	1617.8	1600.7	1553.8
7286.4	35°	7756.0	7064.5	3504.5	1327.5	1361.7	1515.3	1506.8	1374.5	1152.5	1041.5
7785.9	37.5°	7978.0	6940.7	2578.2	1024.5	1272.0	1447.0	1400.1	1079.9	836.6	729.9
8404.8	40°	8456.0	6859.6	1784.3	896.4	1212.3	1412.9	1250.7	922.0	640.3	452.5
9361.0	42.5°	9040.8	6863.9	1212.3	845.2	1216.5	1485.5	1203.7	789.7	452.5	362.8
10637.3	45°	9826.2	6799.8	832.4	845.2	1293.4	1605.0	1233.6	717.1	439.7	461.0
12238.0	47.5°	10671.4	6855.3	618.9	768.3	1306.2	1609.2	1126.9	704.3	422.6	533.6
13979.6	50°	11657.5	6910.8	512.2	708.6	1310.4	1558.0	1037.3	687.2	439.7	563.5
15977.2	52.5°	12673.4	7085.8	435.4	670.2	1361.7	1536.7	1037.3	712.9	439.7	490.9
18521.3	55°	14188.7	7534.0	627.5	836.6	1549.5	1677.5	1276.3	998.8	614.7	631.7
20958.7	57.5°	15862.0	7995.0	700.0	879.3	1592.2	1511.1	1374.5	1101.3	648.8	653.1
22853.9	60°	16963.3	8012.1	695.8	858.0	1489.7	1306.2	1344.6	1161.1	661.6	559.2
24027.8	62.5°	17402.9	7491.3	725.7	858.0	1387.3	1220.8	1378.7	1250.7	683.0	700.0
24360.7	65°	16903.5	6415.7	700.0	768.3	1220.8	1092.8	1387.3	1267.8	747.0	704.3
23763.1	67°	16122.4	5527.8	712.9	729.9	1135.4	1037.3	1459.8	1331.8	866.5	845.2
23451.5	67.5°	15900.4	5293.0	708.6	708.6	1105.6	1020.2	1476.9	1331.8	883.6	875.1
20698.3	70°	14013.7	4289.9	725.7	700.0	977.5	969.0	1570.8	1404.4	1015.9	1024.5
15204.6	72.5°	10667.1	3252.6	721.4	700.0	849.4	926.3	1583.6	1451.3	1105.6	1024.5
8515.8	75°	6061.4	1946.5	636.0	610.4	670.2	806.8	1481.2	1383.0	1075.7	917.7
3402.0	77.5°	2505.6	1003.1	584.8	550.6	554.9	657.4	1233.6	1289.1	1024.5	781.1
1135.4	80°	934.8	601.9	469.5	439.7	426.9	482.3	879.3	1028.7	875.1	640.3
499.4	82.5°	486.6	375.6	320.1	320.1	290.3	307.3	473.8	683.0	661.6	439.7
200.6	85°	247.6	213.4	183.5	179.3	162.2	145.1	239.0	405.5	379.9	243.3
89.6	87.5°	132.3	119.5	76.8	72.6	59.8	38.4	42.7	81.1	132.3	106.7
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>
5664.4
6257.7
6466.9
6048.6
5314.4
4593.0
3760.6
3171.5
2808.7
2612.4
2437.4
2219.7
1942.2
1528.1
1092.8
725.7
439.7
354.3
469.5
593.3
653.1
503.7
665.9
631.7
576.3
708.6
691.5
832.4
858.0
947.6
909.2
819.6
738.5
584.8
345.8
200.6
76.8
0.0

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