

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: P477783

Luminaire Tested: **IFLD-S-SA6C-740-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477783
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

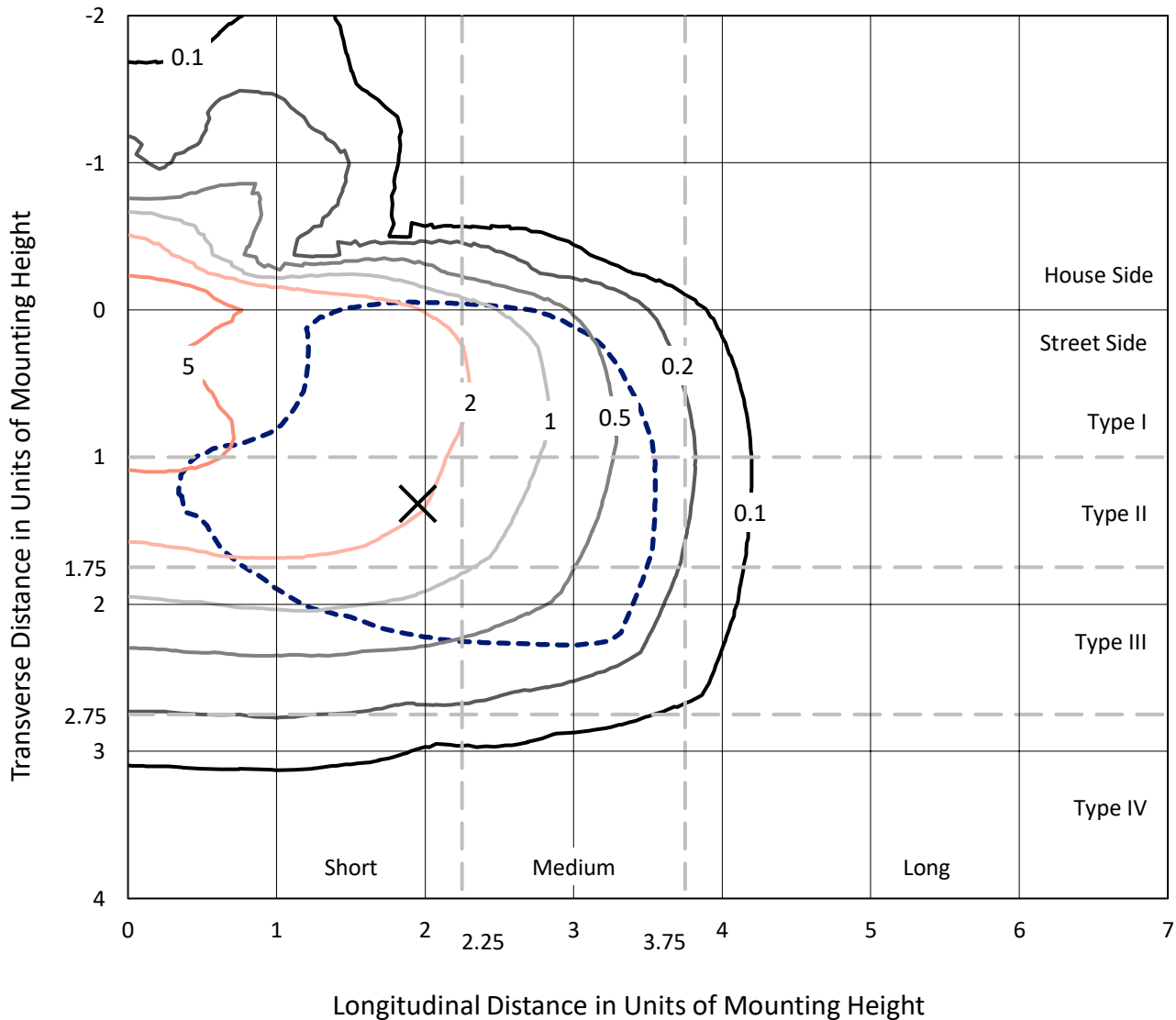
Lumens per Lamp: N/A
Luminaire Lumens: 40816.2 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

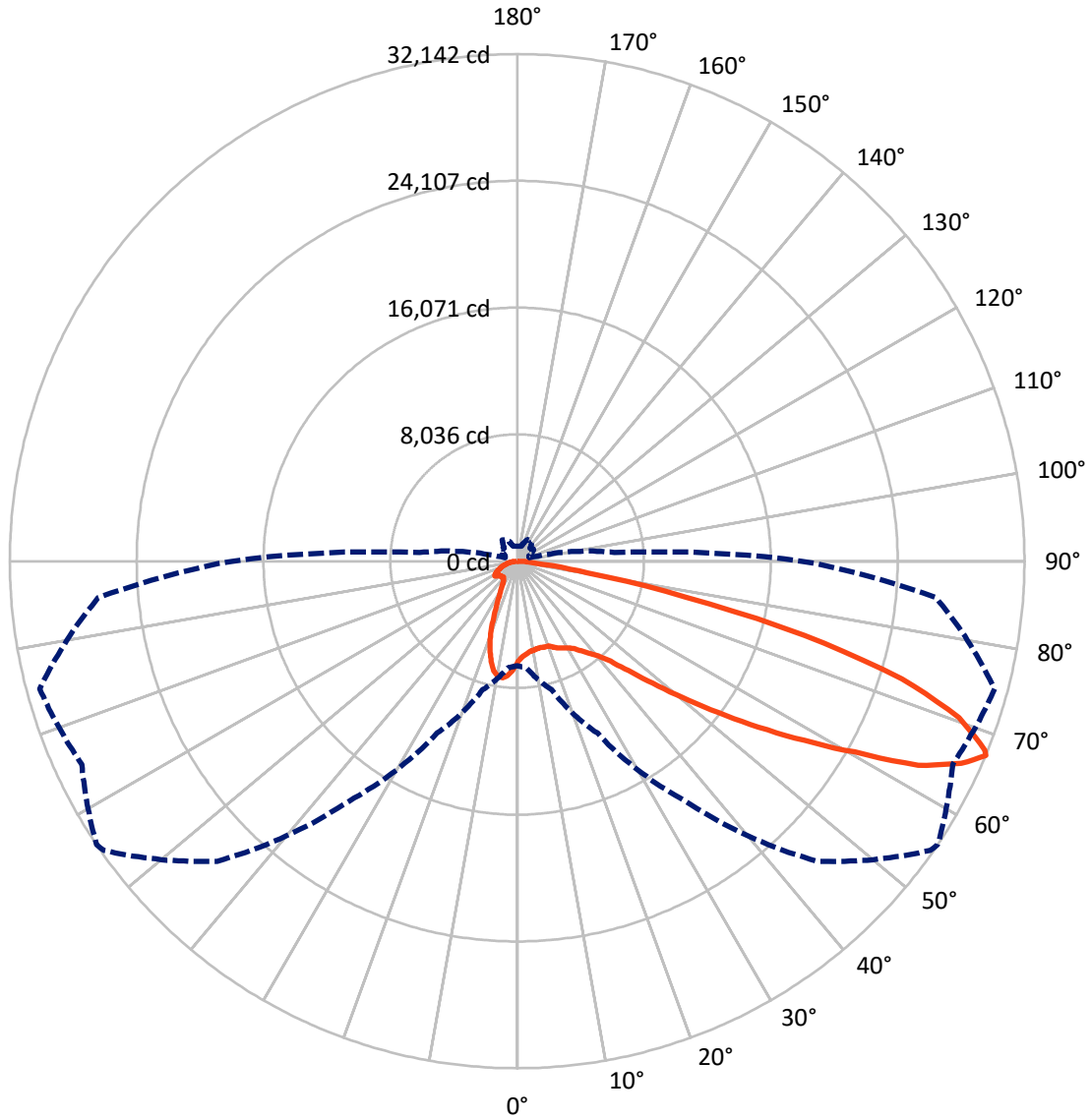
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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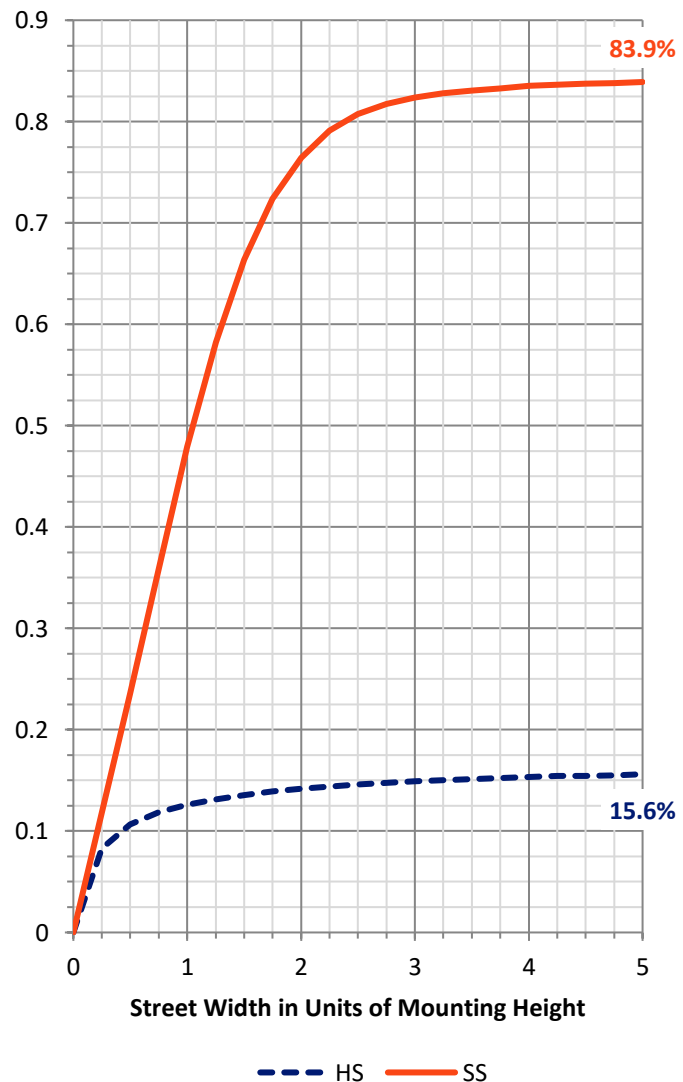
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6461.6	0.0	6461.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	34354.6	0.0	34354.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	40816.2	0.0	40816.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.8	1.5
10°-20°	1669.1	4.1
20°-30°	2617.7	6.4
30°-40°	3736.8	9.2
40°-50°	5639.9	13.8
50°-60°	8977.8	22.0
60°-70°	11477.4	28.1
70°-80°	5596.0	13.7
80°-90°	489.5	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°	40816.2	100.0
0°-180°	40816.2	100.0

Coefficient of Utilization

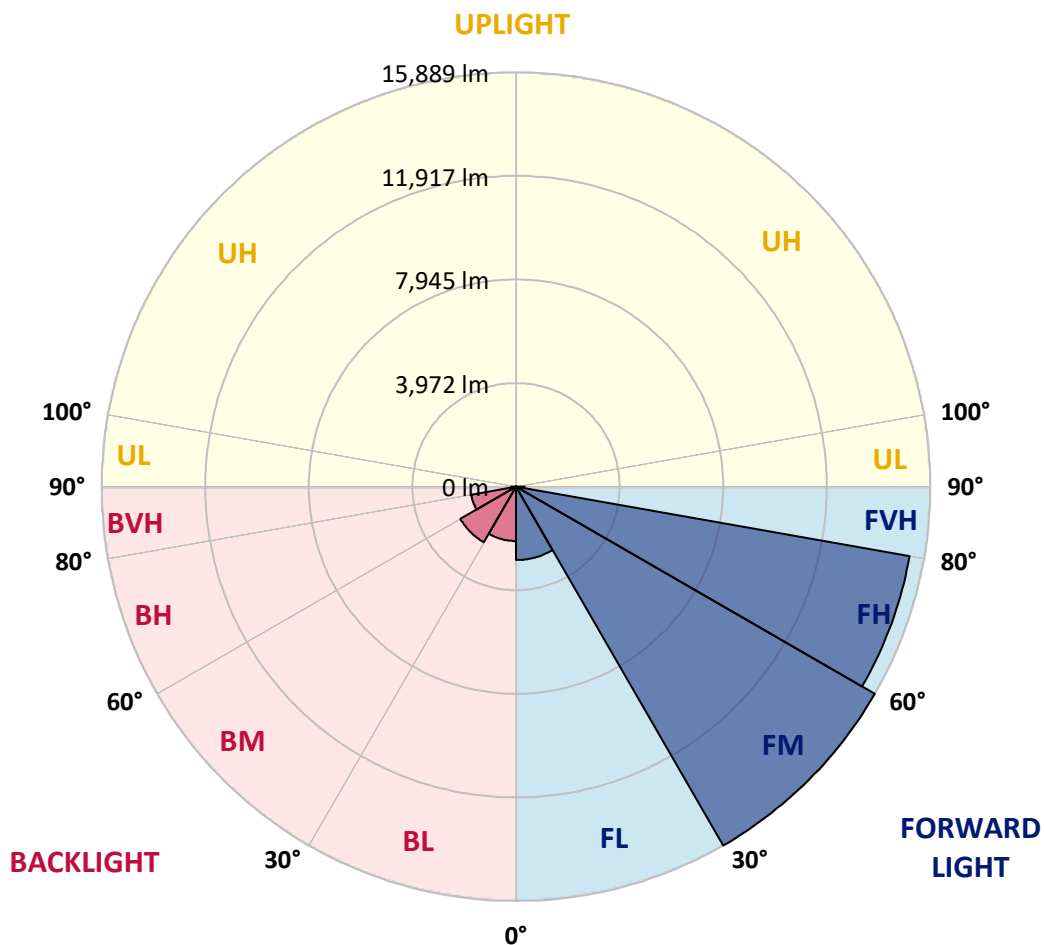


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2812.7	6.9			
FM (30°-60°)	15889.4	38.9			
FH (60°-80°)	15327.4	37.6			G5
FVH (80°-90°)	325.1	0.8			G3/500
BL (0°-30°)	2086.0	5.1	B3/2500		
BM (30°-60°)	2465.2	6.0	B2/2500		
BH (60°-80°)	1746.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	164.4	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°	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9
2.5°	5834.0	5810.1	5838.8	5810.1	5939.3	6015.9	6039.8	6073.3	6193.0	6307.8
5°	5589.9	5484.6	5599.5	5637.8	5647.4	5776.6	5910.6	5934.5	5996.7	6183.4
7.5°	5183.1	5302.8	5259.7	5374.6	5494.2	5623.4	5843.6	5781.4	6011.1	6188.2
10°	5097.0	5106.6	5154.4	5197.5	5302.8	5470.3	5776.6	5738.3	5972.8	6350.9
12.5°	5183.1	5183.1	5168.8	5135.3	5254.9	5417.6	5661.7	5680.9	6049.4	6398.8
15°	5484.6	5542.1	5388.9	5412.9	5365.0	5417.6	5633.0	5676.1	6078.1	6437.0
17.5°	6221.7	6202.5	6020.7	5767.0	5556.4	5522.9	5671.3	5719.2	6049.4	6547.1
20°	6939.6	6901.3	6585.4	6322.2	5905.8	5709.6	5733.5	5738.3	6097.2	6618.9
22.5°	7738.8	7839.3	7494.7	6958.7	6441.8	5953.7	5857.9	5934.5	6207.3	6657.2
25°	8992.7	8777.3	8480.6	7777.1	6944.3	6331.8	6063.7	6102.0	6312.6	6752.9
27.5°	9897.3	9811.1	9346.9	8777.3	7647.9	6628.5	6173.8	6245.6	6504.0	6748.1
30°	10768.3	10768.3	10485.9	9634.0	8389.7	7126.2	6408.3	6374.8	6413.1	6738.6
32.5°	11787.7	11648.9	11242.1	10677.4	9322.9	7580.9	6595.0	6604.5	6604.5	6915.6
35°	12323.7	12548.6	12275.8	11357.0	10036.0	8337.0	7044.9	6973.1	6920.4	7111.9
37.5°	13108.6	13242.6	12955.4	12414.6	10921.4	8949.6	7442.1	7384.7	7078.4	7265.0
40°	13582.4	13558.5	13548.9	13300.0	12094.0	9672.3	8026.0	7877.6	7466.0	7805.8
42.5°	13850.4	13802.6	14391.2	14238.1	13199.5	10734.8	8758.2	8676.8	8222.2	8767.8
45°	14151.9	14506.1	14989.5	15420.2	14486.9	12228.0	9997.8	9882.9	9476.1	10170.0
47.5°	14415.1	14850.7	15468.0	15927.5	15649.9	13850.4	11529.2	11558.0	11290.0	12003.0
50°	14855.4	14898.5	15736.1	16664.5	16879.9	15348.4	13587.2	13539.3	13419.7	14419.9
52.5°	14721.4	14850.7	15908.3	17095.3	17449.4	16932.5	15798.3	15941.8	15783.9	17042.6
55°	12539.1	12926.7	15803.1	17549.9	18799.0	18722.5	18641.1	18545.4	18535.8	19990.7
57.5°	11548.4	11864.3	13922.2	18052.4	20244.4	20809.1	21335.6	21440.9	21436.1	23192.5
60°	10897.5	11222.9	13161.2	17779.6	21474.4	23541.9	24551.7	24566.1	24537.3	26614.4
62.5°	9624.5	9940.3	11845.1	16286.4	21814.2	26064.0	28313.4	28500.1	27183.9	29562.5
65°	8093.0	8351.4	10031.3	14003.6	20909.6	27667.3	31141.9	30921.7	29414.2	31247.2
67°	6618.9	6791.2	8428.0	12022.2	18545.4	26896.8	31960.3	32142.1	30443.1	31319.0
67.5°	6197.7	6355.7	7901.5	11347.4	17645.6	26312.9	31989.0	31960.3	30462.3	31333.3
70°	4302.5	4369.5	5384.1	7805.8	12998.5	22230.5	29653.5	29720.5	29184.4	29634.3
72.5°	2852.4	2952.9	3599.0	4919.9	7662.2	16176.4	24786.2	25504.1	25164.3	24298.0
75°	1837.8	1895.2	2354.7	2929.0	3771.3	9212.9	18310.9	18789.5	18009.4	15027.7
77.5°	1029.0	1091.2	1421.4	1780.4	1837.8	3833.5	10284.9	10878.4	9217.7	6384.4
80°	641.3	722.7	1072.0	1057.7	875.8	1407.1	4240.3	4541.8	3685.1	2196.7
82.5°	483.4	545.6	828.0	741.8	492.9	627.0	1588.9	1703.8	1349.6	847.1
85°	330.2	416.4	598.2	459.4	258.4	301.5	631.7	679.6	617.4	411.6
87.5°	119.6	177.1	311.1	229.7	114.9	90.9	205.8	229.7	220.2	186.7
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°
6350.9	0°	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9	6350.9
6408.3	2.5°	6499.3	6566.3	6599.8	6796.0	6877.3	6863.0	6882.1	6910.8	6939.6	6977.8
6489.7	5°	6551.9	6757.7	6867.8	7097.5	7250.6	7183.6	7269.8	7245.9	7212.4	7207.6
6638.1	7.5°	6724.2	6987.4	7317.6	7379.9	7446.9	7279.4	7135.8	6939.6	6891.7	6724.2
6762.5	10°	7030.5	7245.9	7647.9	7671.8	7375.1	6944.3	6623.7	6216.9	6212.1	5968.0
6953.9	12.5°	7322.4	7566.5	7892.0	7753.2	7044.9	6456.2	5934.5	5489.4	5302.8	5178.3
7068.8	15°	7504.3	7906.3	8078.6	7480.4	6465.8	5671.3	4996.5	4517.9	4326.5	4235.5
7212.4	17.5°	7671.8	8231.8	8155.2	7001.8	5752.7	4862.5	4058.4	3642.1	3589.4	3522.4
7442.1	20°	7901.5	8351.4	7882.4	6379.6	4943.8	3819.2	3307.1	3106.1	3153.9	3182.6
7466.0	22.5°	8116.9	8413.6	7537.8	5700.0	3905.3	3024.7	2771.0	2814.1	2885.9	2981.6
7523.4	25°	8212.6	8514.1	7073.6	4762.0	2972.0	2546.1	2488.7	2560.5	2680.1	2684.9
7604.8	27.5°	8274.8	8442.3	6513.6	3847.9	2349.9	2225.4	2311.6	2364.2	2378.6	2436.0
7777.1	30°	8384.9	8294.0	5805.3	2751.9	1971.8	1976.6	2086.7	2086.7	2086.7	2129.7
7949.4	32.5°	8576.3	8193.5	4977.3	2010.1	1699.0	1852.1	1823.4	1813.9	1794.7	1742.1
8169.5	35°	8696.0	7920.7	3929.2	1488.4	1526.7	1699.0	1689.4	1541.1	1292.2	1167.8
8729.5	37.5°	8944.9	7781.9	2890.7	1148.6	1426.2	1622.4	1569.8	1210.8	938.0	818.4
9423.4	40°	9480.9	7690.9	2000.5	1005.0	1359.2	1584.1	1402.3	1033.8	717.9	507.3
10495.5	42.5°	10136.5	7695.7	1359.2	947.6	1364.0	1665.5	1349.6	885.4	507.3	406.8
11926.5	45°	11017.2	7623.9	933.3	947.6	1450.1	1799.5	1383.1	804.0	492.9	516.9
13721.2	47.5°	11964.8	7686.2	694.0	861.5	1464.5	1804.3	1263.5	789.7	473.8	598.2
15673.8	50°	13070.3	7748.4	574.3	794.5	1469.3	1746.9	1163.0	770.5	492.9	631.7
17913.6	52.5°	14209.4	7944.6	488.2	751.4	1526.7	1722.9	1163.0	799.2	492.9	550.4
20766.0	55°	15908.3	8447.1	703.5	938.0	1737.3	1880.9	1431.0	1119.9	689.2	708.3
23498.8	57.5°	17784.4	8964.0	784.9	985.9	1785.1	1694.2	1541.1	1234.8	727.5	732.2
25623.7	60°	19019.2	8983.1	780.1	962.0	1670.3	1464.5	1507.6	1301.8	741.8	627.0
26939.9	62.5°	19512.1	8399.3	813.6	962.0	1555.4	1368.8	1545.8	1402.3	765.7	784.9
27313.2	65°	18952.2	7193.2	784.9	861.5	1368.8	1225.2	1555.4	1421.4	837.5	789.7
26643.1	67°	18076.4	6197.7	799.2	818.4	1273.1	1163.0	1636.8	1493.2	971.5	947.6
26293.8	67.5°	17827.5	5934.5	794.5	794.5	1239.5	1143.8	1655.9	1493.2	990.7	981.1
23206.9	70°	15712.1	4809.8	813.6	784.9	1096.0	1086.4	1761.2	1574.6	1139.0	1148.6
17047.4	72.5°	11960.0	3646.9	808.8	784.9	952.4	1038.5	1775.6	1627.2	1239.5	1148.6
9547.9	75°	6796.0	2182.4	713.1	684.4	751.4	904.5	1660.7	1550.6	1206.0	1029.0
3814.4	77.5°	2809.3	1124.7	655.7	617.4	622.2	737.0	1383.1	1445.3	1148.6	875.8
1273.1	80°	1048.1	674.8	526.4	492.9	478.6	540.8	985.9	1153.4	981.1	717.9
560.0	82.5°	545.6	421.2	358.9	358.9	325.4	344.6	531.2	765.7	741.8	492.9
224.9	85°	277.6	239.3	205.8	201.0	181.9	162.7	268.0	454.7	425.9	272.8
100.5	87.5°	148.4	134.0	86.1	81.4	67.0	43.1	47.9	90.9	148.4	119.6
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>
6350.9
7016.1
7250.6
6781.6
5958.5
5149.6
4216.4
3555.9
3149.1
2929.0
2732.8
2488.7
2177.6
1713.4
1225.2
813.6
492.9
397.2
526.4
665.2
732.2
564.7
746.6
708.3
646.1
794.5
775.3
933.3
962.0
1062.5
1019.4
918.9
828.0
655.7
387.7
224.9
86.1
0.0

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