

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: P477407

Luminaire Tested: **IFLD-L-SA8B-740-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477407
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

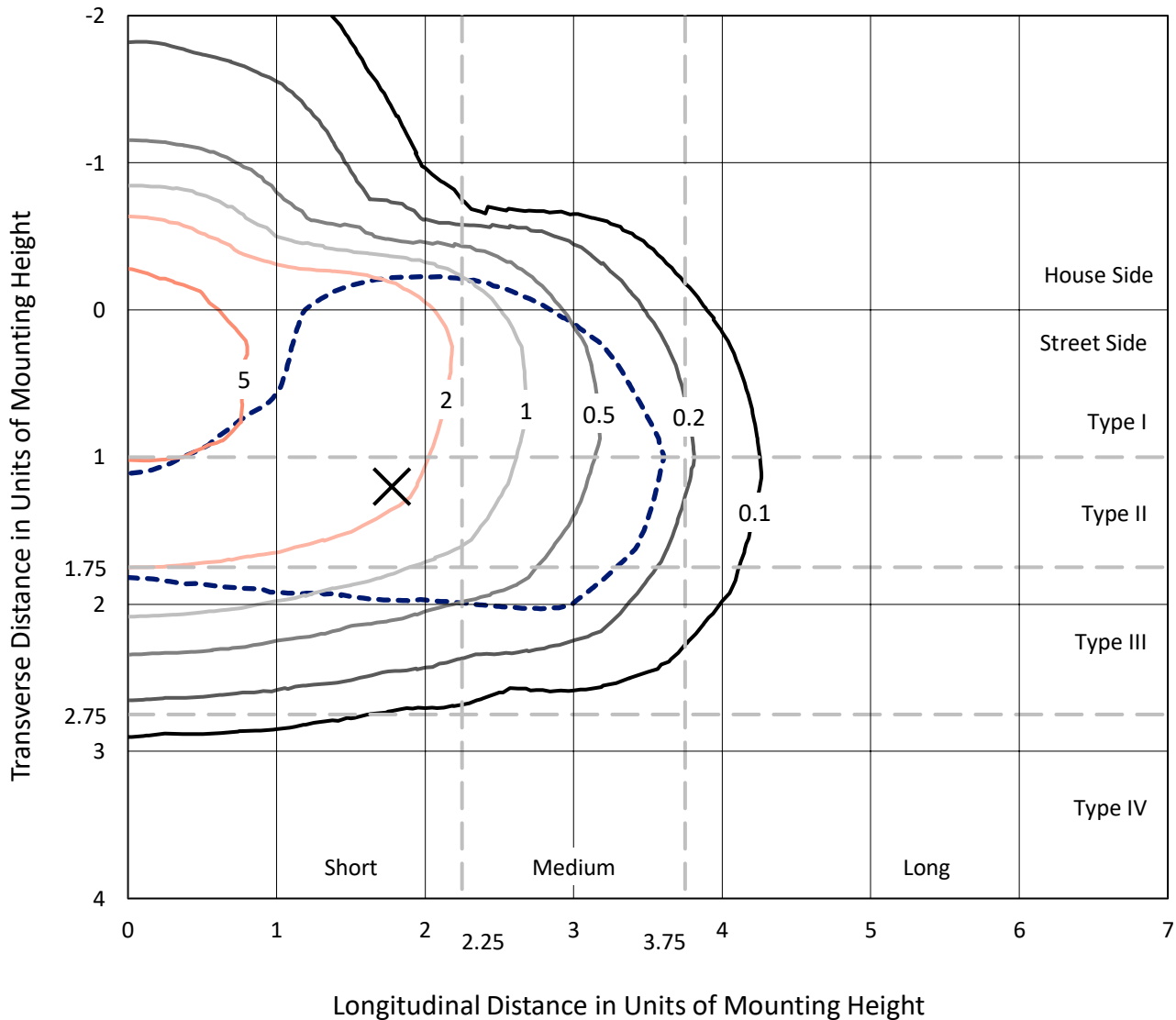
Lumens per Lamp: N/A
Luminaire Lumens: 41452.5 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 320
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

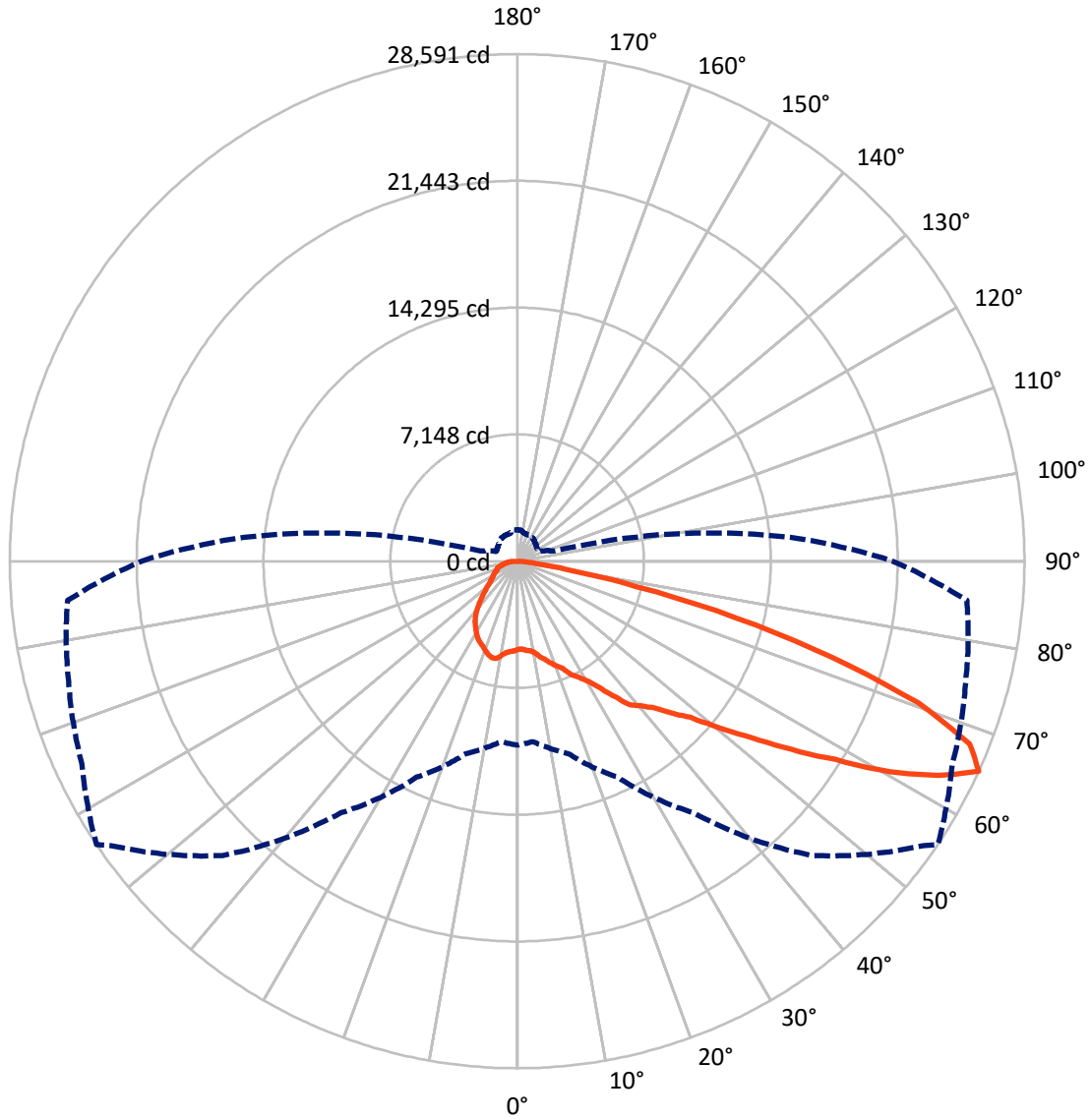
✕ Max cd
 - - - 1/2 Max cd



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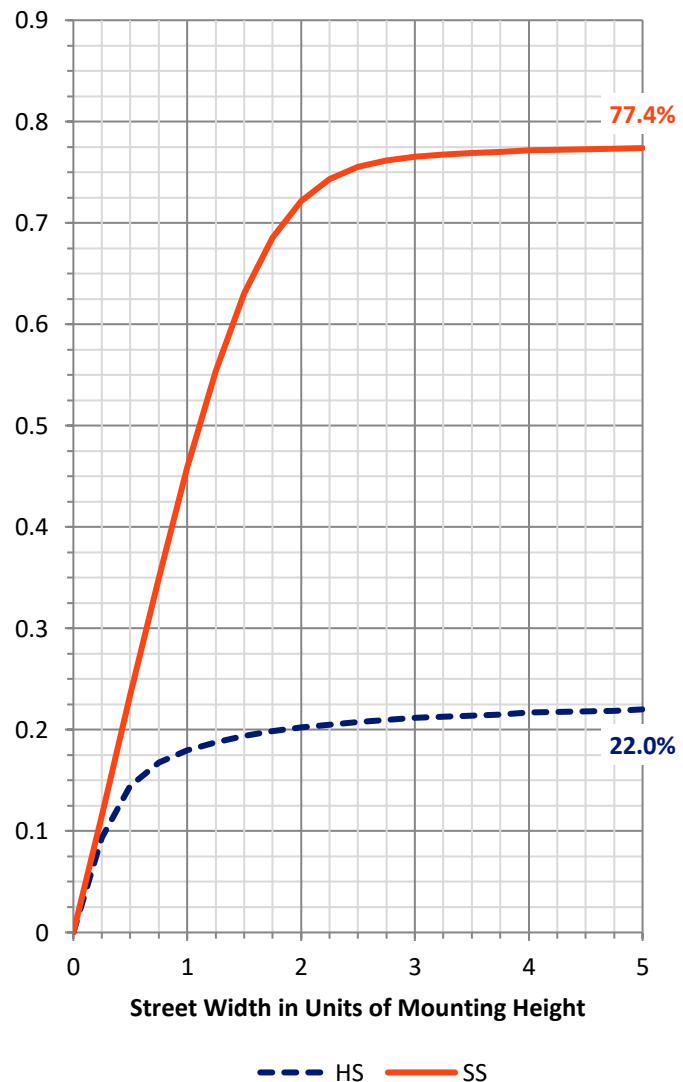
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9296.4	0.0	9296.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	32156.0	0.0	32156.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	41452.5	0.0	41452.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	1.2
10°-20°	1601.0	3.9
20°-30°	2850.7	6.9
30°-40°	4268.8	10.3
40°-50°	6324.8	15.3
50°-60°	9745.6	23.5
60°-70°	11033.3	26.6
70°-80°	4578.9	11.0
80°-90°	556.3	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°	41452.5	100.0
0°-180°	41452.5	100.0

Coefficient of Utilization

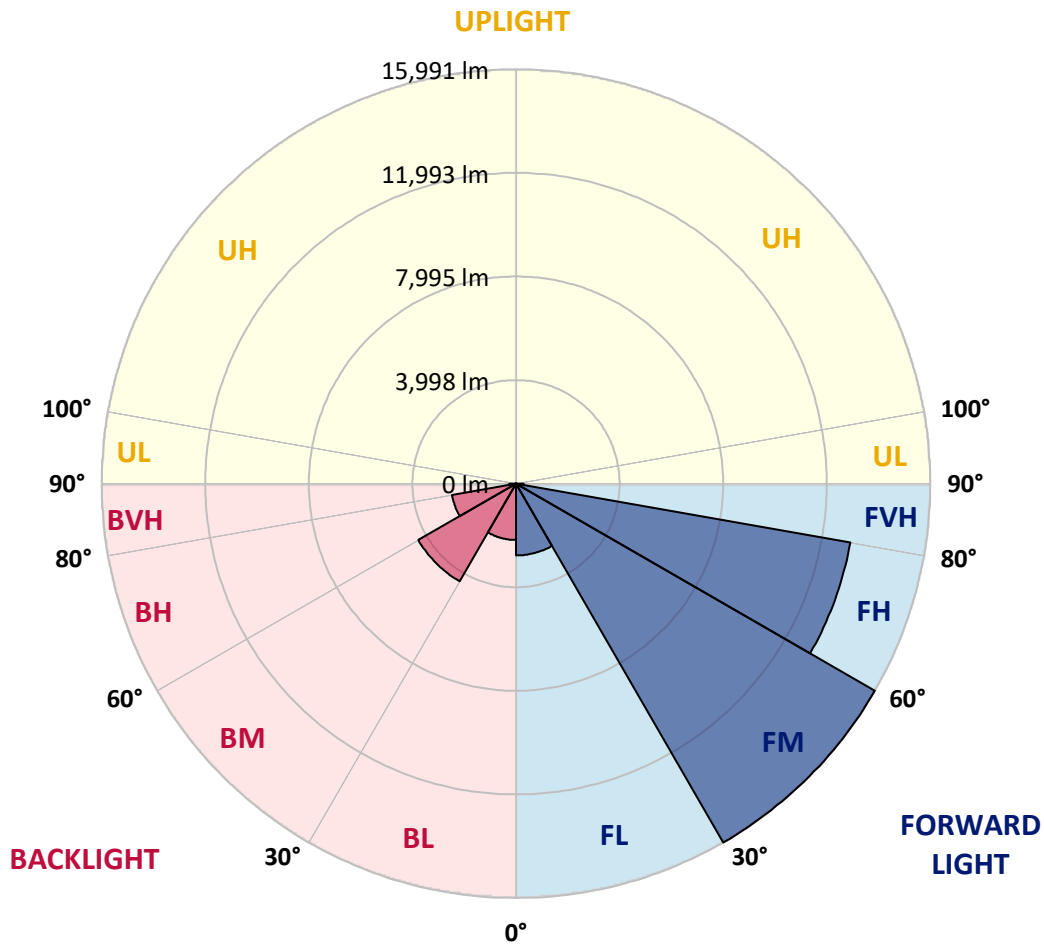


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2770.2	6.7			
FM (30°-60°)	15990.5	38.6			
FH (60°-80°)	13101.8	31.6			G5
FVH (80°-90°)	293.4	0.7			G3/500
BL (0°-30°)	2174.5	5.2	B3/2500		
BM (30°-60°)	4348.7	10.5	B3/5000		
BH (60°-80°)	2510.4	6.1	B4/5000		G4/5000
BVH (80°-90°)	262.9	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°	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5
2.5°	4845.3	4871.4	4854.0	4906.1	4949.4	4949.4	4984.2	4958.1	4992.8	5040.5
5°	5005.8	4901.7	4958.1	4984.2	4971.1	4992.8	4958.1	5044.9	4988.5	5079.6
7.5°	5044.9	5083.9	5131.6	5088.3	5127.3	5105.6	5109.9	5096.9	5066.6	5140.3
10°	5331.2	5274.8	5383.2	5318.2	5309.5	5300.8	5283.5	5218.4	5292.1	5296.5
12.5°	5660.9	5608.8	5604.5	5552.4	5621.8	5496.0	5522.0	5487.3	5500.4	5517.7
15°	5899.4	5877.7	5977.5	5916.8	5825.7	5769.3	5830.0	5734.6	5782.3	5773.6
17.5°	6372.3	6367.9	6294.2	6194.4	6142.3	6059.9	6046.9	6007.9	6042.6	6025.2
20°	6701.9	6749.6	6762.7	6645.5	6446.0	6354.9	6333.2	6302.8	6341.9	6328.9
22.5°	7205.1	7131.4	7187.8	6983.9	6910.1	6693.3	6615.2	6571.8	6758.3	6710.6
25°	7526.1	7604.2	7547.8	7478.4	7313.6	7044.6	6988.2	7083.7	7157.4	7105.3
27.5°	8250.5	8172.4	8120.4	7912.2	7803.7	7521.8	7456.7	7422.0	7439.4	7469.7
30°	8801.4	8844.8	8727.7	8580.2	8306.9	8020.6	7868.8	7838.4	7777.7	7725.7
32.5°	9586.6	9521.5	9452.1	9356.7	9122.4	8745.0	8597.6	8484.8	8302.6	8059.7
35°	9964.0	10150.5	10098.4	9842.5	9664.7	9521.5	9478.1	9304.6	9152.8	8771.1
37.5°	10592.9	10671.0	10597.3	10514.9	10432.4	10280.6	10228.6	10276.3	9977.0	9348.0
40°	11000.7	11165.5	11317.4	11087.5	11070.1	11100.5	10779.5	10723.1	10107.1	9777.4
42.5°	11833.6	11903.0	11933.3	11924.7	12024.4	12024.4	11412.8	11291.3	10853.2	10584.3
45°	12935.4	12991.8	13100.2	13178.3	13065.5	13121.9	12250.0	12202.3	11811.9	11759.8
47.5°	13889.7	14024.2	14267.1	14497.0	14644.5	14453.6	13499.3	13160.9	13061.2	13373.5
50°	14722.5	14562.1	15130.3	15364.5	16010.9	16327.5	14878.7	14744.2	14583.7	15182.4
52.5°	14805.0	15021.9	15824.4	16292.8	17624.5	18210.2	16570.5	16514.1	16318.9	17008.6
55°	15394.9	15368.9	16175.7	17190.8	18774.1	19758.8	18774.1	18739.4	18314.3	18969.3
57.5°	15295.1	15559.7	16197.4	17615.9	19810.8	21420.1	21329.0	21090.5	20496.2	21029.7
60°	14956.8	15026.2	15802.7	17602.9	20413.8	23124.9	24087.9	24135.6	22921.0	23346.1
62.5°	13039.5	13200.0	14184.7	16219.1	19984.3	24300.4	26781.7	26612.5	25640.8	25155.0
65°	10371.7	10211.2	11234.9	13434.2	17312.2	23467.6	27961.6	28590.5	27063.6	26174.4
67.5°	6359.2	6320.2	7304.9	9243.9	12952.7	19971.3	27020.3	27510.4	26668.9	25957.5
70°	3275.1	3175.3	3791.3	5157.7	8142.1	14653.1	23515.3	23996.8	24799.3	23281.1
72.5°	1526.9	1505.2	1834.9	2537.6	4147.0	8614.9	18210.2	18557.2	20248.9	19628.6
75°	897.9	910.9	1097.5	1327.4	2021.4	4060.2	12085.2	12757.5	14592.4	14145.6
77.5°	672.4	672.4	780.8	924.0	1179.9	1570.3	5964.5	6853.8	8532.5	7673.6
80°	494.5	503.2	598.6	694.1	819.8	811.2	2368.4	2776.2	3912.7	3344.5
82.5°	386.1	399.1	464.1	516.2	576.9	490.2	971.7	1045.4	1609.3	1279.7
85°	268.9	277.6	364.4	351.4	351.4	273.3	403.4	425.1	637.7	607.3
87.5°	65.1	73.7	177.9	195.2	147.5	82.4	125.8	143.1	229.9	264.6
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°
4975.5	0°	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5	4975.5
5062.2	2.5°	4997.2	5014.5	5088.3	5049.2	5070.9	4979.8	5053.6	4992.8	5044.9	5018.9
5101.3	5°	5136.0	5096.9	5140.3	5109.9	5109.9	5144.7	5196.7	5157.7	5235.7	5201.0
5131.6	7.5°	5192.4	5196.7	5222.7	5227.1	5205.4	5313.8	5318.2	5305.1	5378.9	5361.5
5339.9	10°	5331.2	5335.5	5383.2	5409.3	5387.6	5426.6	5383.2	5348.5	5344.2	5326.8
5504.7	12.5°	5552.4	5595.8	5587.1	5608.8	5613.1	5448.3	5348.5	5179.4	5157.7	5179.4
5747.6	15°	5756.3	5738.9	5747.6	5791.0	5608.8	5344.2	5166.3	5023.2	5031.9	5036.2
6064.3	17.5°	5999.2	6012.2	6025.2	5825.7	5491.7	5179.4	5023.2	5023.2	4979.8	4997.2
6285.5	20°	6276.8	6224.8	6112.0	5830.0	5287.8	4988.5	4940.8	4940.8	4888.7	4854.0
6524.1	22.5°	6493.7	6389.6	6220.4	5695.6	5105.6	4914.7	4797.6	4715.2	4654.5	4585.1
6788.7	25°	6632.5	6576.1	6246.5	5556.7	4971.1	4719.5	4546.0	4420.2	4342.2	4251.1
6996.9	27.5°	6845.1	6736.6	6320.2	5396.2	4823.7	4524.3	4255.4	4060.2	3912.7	3817.3
7313.6	30°	7131.4	6975.2	6268.1	5166.3	4598.1	4186.0	3869.3	3617.7	3448.6	3370.5
7612.9	32.5°	7365.6	7161.7	6224.8	4958.1	4346.5	3843.3	3422.5	3166.6	3071.2	2971.4
8116.1	35°	7812.4	7409.0	6194.4	4841.0	4120.9	3500.6	3058.2	2836.9	2715.5	2568.0
8415.4	37.5°	8155.1	7838.4	6120.7	4598.1	3830.3	3166.6	2780.5	2581.0	2398.8	2242.7
9109.4	40°	8693.0	8437.1	6125.0	4255.4	3487.6	2880.3	2563.6	2355.4	2125.5	1991.1
10137.5	42.5°	9703.7	9027.0	6151.0	3982.1	3101.5	2646.1	2368.4	2121.2	1891.3	1778.5
11308.7	45°	10944.3	9838.2	5990.5	3734.9	2706.8	2424.8	2134.2	1887.0	1739.5	1657.0
12900.7	47.5°	12371.5	10632.0	5773.6	3270.7	2377.1	2190.6	1917.3	1774.2	1665.7	1618.0
14952.5	50°	13967.8	11768.5	5712.9	2845.6	2121.2	1991.1	1813.2	1704.8	1631.0	1574.6
17264.5	52.5°	16023.9	13091.5	5591.4	2407.5	1900.0	1830.6	1774.2	1700.4	1635.4	1587.6
19420.4	55°	17988.9	14557.7	5461.3	2047.4	1743.8	1752.5	1782.8	1717.8	1661.4	1587.6
21836.6	57.5°	20201.2	16054.3	4979.8	1782.8	1626.7	1713.4	1774.2	1700.4	1644.0	1587.6
24309.1	60°	21567.6	16895.8	4038.5	1552.9	1522.6	1639.7	1722.1	1644.0	1583.3	1605.0
25445.6	62.5°	22122.9	16453.3	3045.1	1409.8	1448.8	1539.9	1639.7	1609.3	1566.0	1648.4
25432.6	65°	21177.2	15434.0	2177.6	1288.3	1349.1	1440.2	1566.0	1600.7	1613.7	1774.2
23359.1	67.5°	18843.5	13438.6	1600.7	1188.6	1245.0	1379.4	1618.0	1674.4	1665.7	1865.3
19602.6	70°	15078.3	10510.5	1249.3	1106.1	1205.9	1427.1	1691.7	1691.7	1631.0	1865.3
14952.5	72.5°	10970.3	7409.0	1075.8	1010.7	1106.1	1310.0	1683.1	1678.7	1600.7	1704.8
9521.5	75°	6641.2	4311.8	950.0	915.3	950.0	1123.5	1609.3	1583.3	1474.9	1466.2
4580.7	77.5°	3309.8	2168.9	776.5	811.2	828.5	941.3	1414.1	1453.2	1305.7	1271.0
1808.9	80°	1396.8	945.6	646.3	698.4	698.4	793.8	1175.5	1201.6	1084.5	1019.4
715.7	82.5°	637.7	542.2	550.9	607.3	568.3	616.0	932.6	963.0	880.6	772.1
303.6	85°	268.9	308.0	420.8	477.2	420.8	399.1	642.0	676.7	572.6	477.2
130.1	87.5°	121.5	169.2	264.6	347.0	212.6	186.5	342.7	355.7	286.3	212.6
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>
4975.5
4971.1
5153.3
5335.5
5326.8
5188.0
5096.9
5001.5
4802.0
4546.0
4268.4
3860.7
3413.9
2967.1
2555.0
2247.0
2004.1
1787.2
1674.4
1609.3
1583.3
1583.3
1583.3
1583.3
1583.3
1587.6
1626.7
1774.2
1878.3
1826.2
1644.0
1448.8
1249.3
997.7
754.8
481.5
199.5
0.0

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