

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: P477512

Luminaire Tested: **IFLD-S-SA6E-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

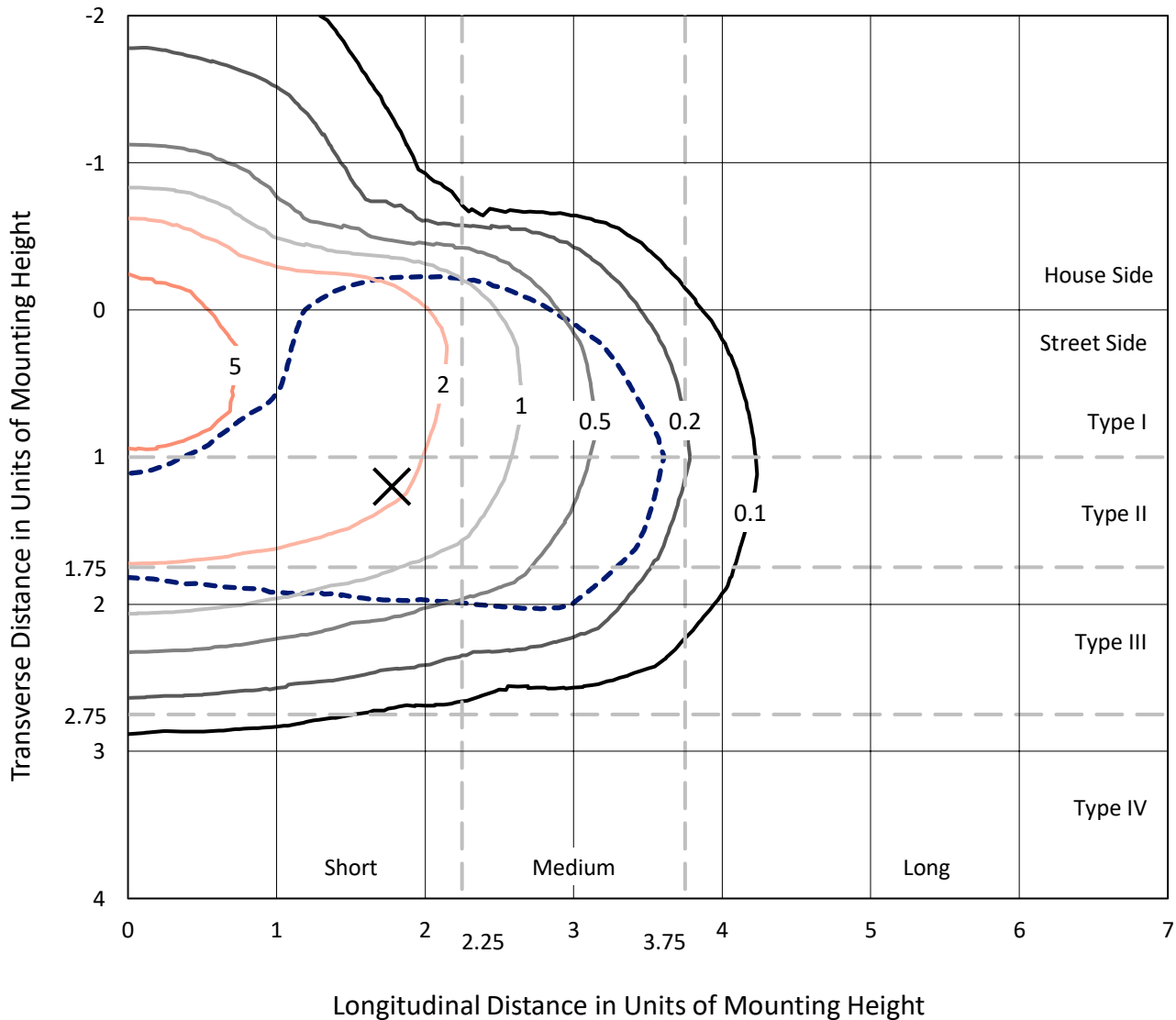
Lumens per Lamp: N/A
Luminaire Lumens: 39616.7 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

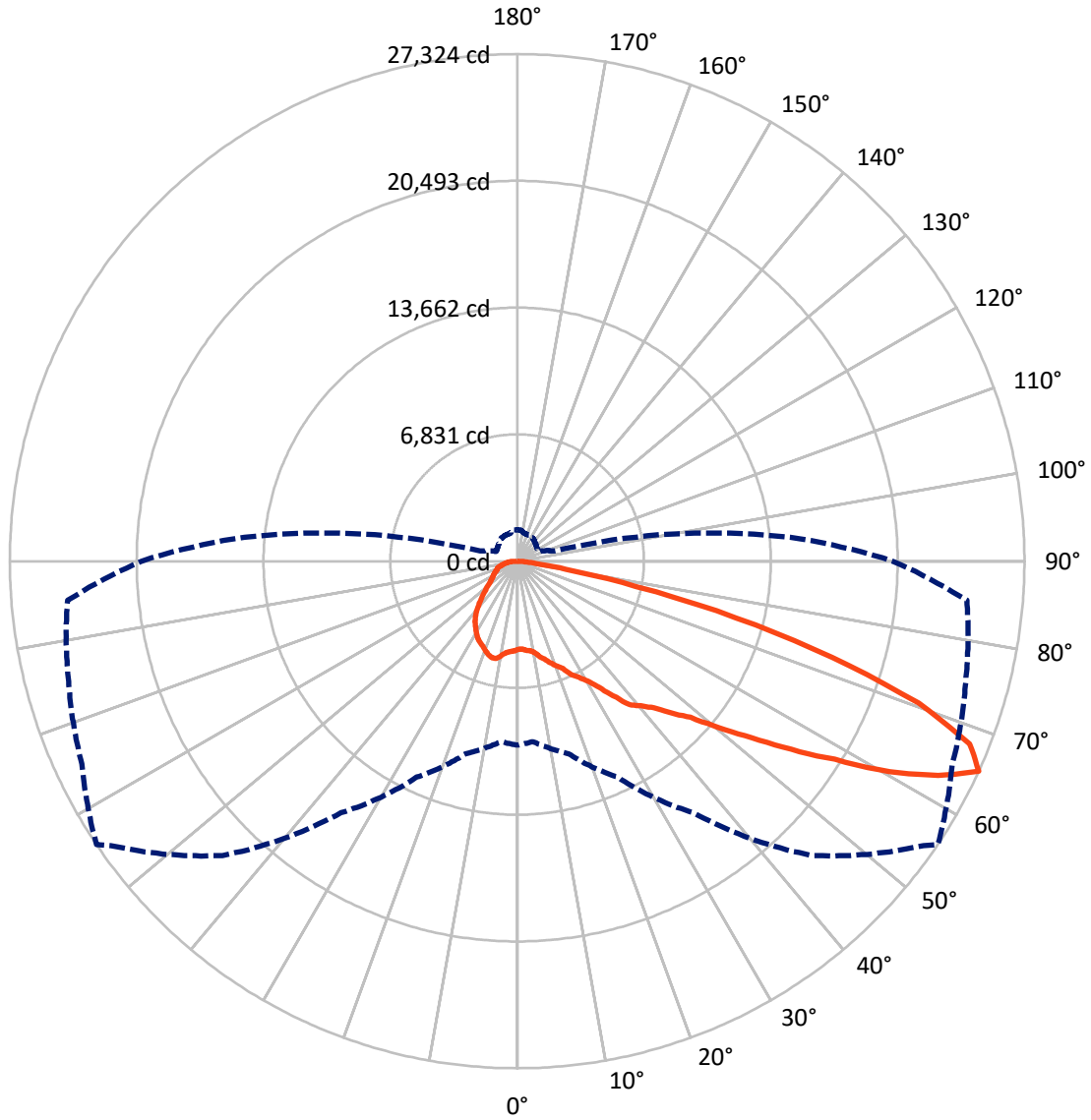
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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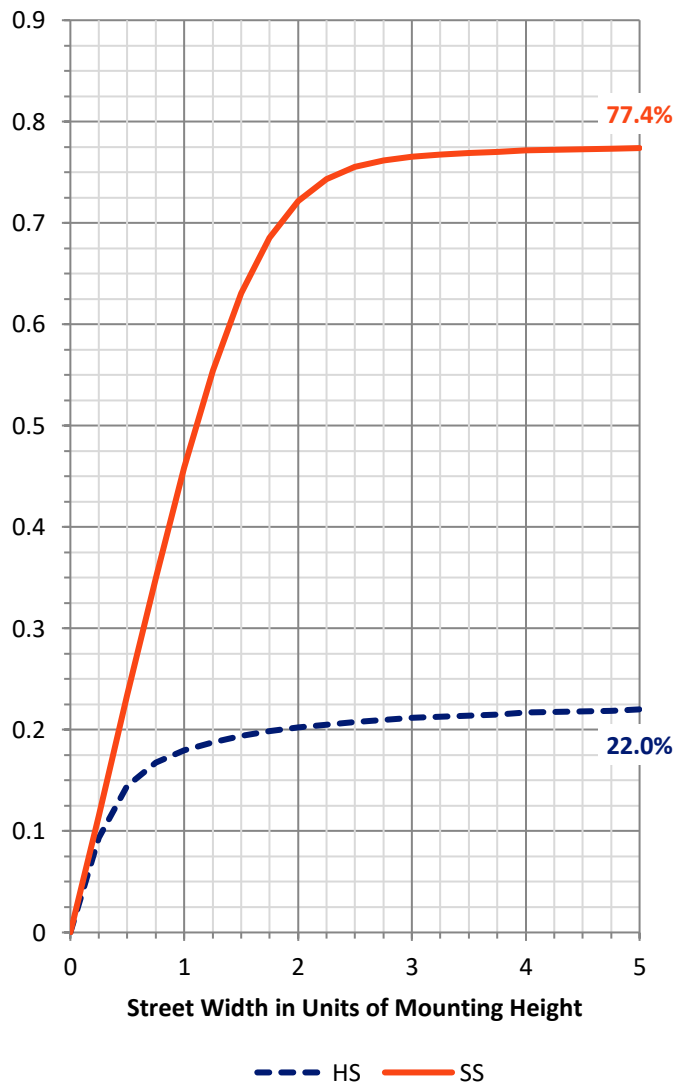
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8884.8	0.0	8884.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	30732.0	0.0	30732.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	39616.7	0.0	39616.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.2	1.2
10°-20°	1530.1	3.9
20°-30°	2724.4	6.9
30°-40°	4079.8	10.3
40°-50°	6044.7	15.3
50°-60°	9314.0	23.5
60°-70°	10544.6	26.6
70°-80°	4376.1	11.0
80°-90°	531.6	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°	39616.7	100.0
0°-180°	39616.7	100.0

Coefficient of Utilization

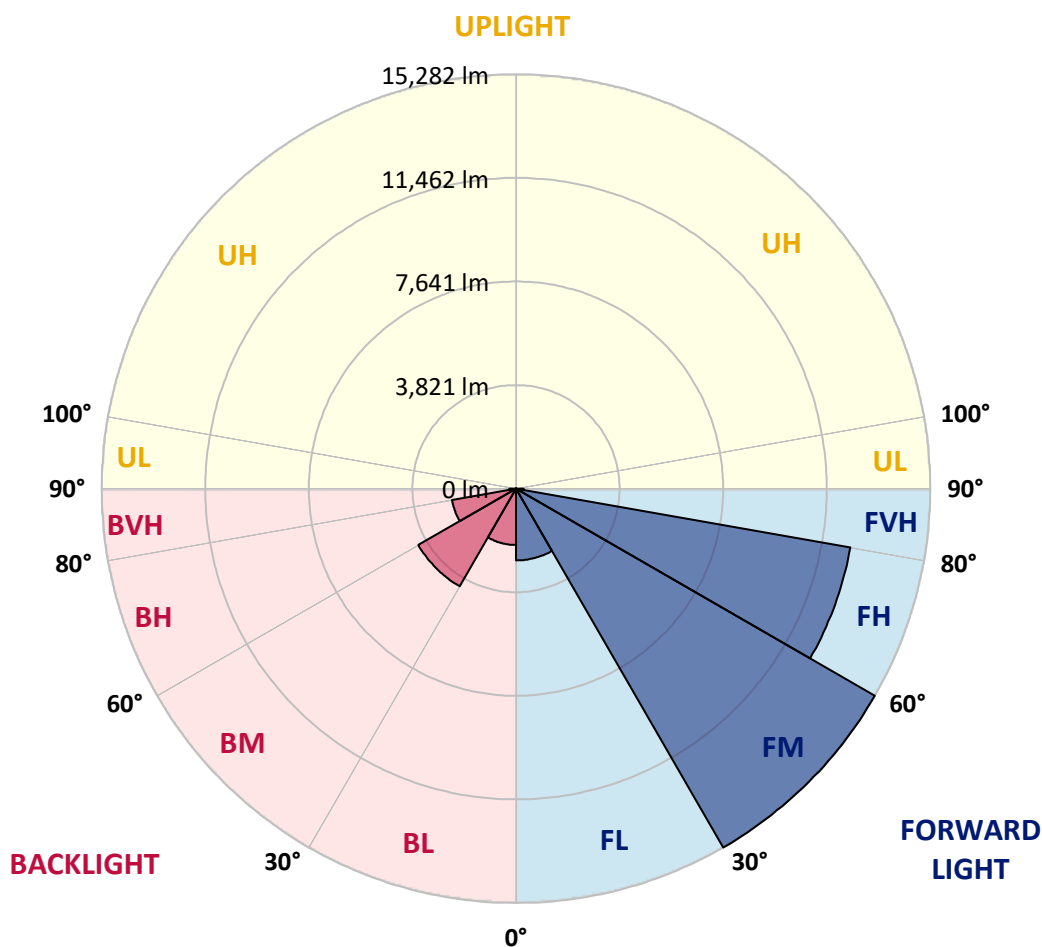


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2647.5	6.7			
FM (30°-60°)	15282.4	38.6			
FH (60°-80°)	12521.6	31.6			G5
FVH (80°-90°)	280.4	0.7			G3/500
BL (0°-30°)	2078.2	5.2	B3/2500		
BM (30°-60°)	4156.1	10.5	B3/5000		
BH (60°-80°)	2399.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	251.2	0.6			G3/500
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°	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1
2.5°	4630.8	4655.6	4639.1	4688.8	4730.3	4730.3	4763.4	4738.6	4771.7	4817.3
5°	4784.2	4684.7	4738.6	4763.4	4751.0	4771.7	4738.6	4821.5	4767.6	4854.6
7.5°	4821.5	4858.8	4904.4	4862.9	4900.2	4879.5	4883.7	4871.2	4842.2	4912.7
10°	5095.1	5041.2	5144.8	5082.6	5074.4	5066.1	5049.5	4987.3	5057.8	5061.9
12.5°	5410.2	5360.4	5356.3	5306.5	5372.8	5252.6	5277.5	5244.3	5256.8	5273.3
15°	5638.2	5617.4	5712.8	5654.8	5567.7	5513.8	5571.8	5480.6	5526.2	5517.9
17.5°	6090.1	6085.9	6015.4	5920.1	5870.3	5791.6	5779.1	5741.8	5775.0	5758.4
20°	6405.1	6450.7	6463.2	6351.2	6160.5	6073.5	6052.7	6023.7	6061.0	6048.6
22.5°	6886.0	6815.6	6869.4	6674.6	6604.1	6396.8	6322.2	6280.8	6459.0	6413.4
25°	7192.8	7267.4	7213.5	7147.2	6989.7	6732.6	6678.7	6770.0	6840.4	6790.7
27.5°	7885.1	7810.5	7760.8	7561.8	7458.1	7188.7	7126.5	7093.3	7109.9	7138.9
30°	8411.7	8453.1	8341.2	8200.2	7939.0	7665.4	7520.3	7491.3	7433.3	7383.5
32.5°	9162.0	9099.8	9033.5	8942.3	8718.4	8357.8	8216.8	8109.0	7934.9	7702.7
35°	9522.7	9701.0	9651.2	9406.6	9236.7	9099.8	9058.4	8892.6	8747.5	8382.6
37.5°	10123.8	10198.5	10128.0	10049.2	9970.4	9825.3	9775.6	9821.2	9535.1	8934.0
40°	10513.5	10671.1	10816.2	10596.4	10579.9	10608.9	10302.1	10248.2	9659.5	9344.4
42.5°	11309.5	11375.8	11404.9	11396.6	11491.9	11491.9	10907.4	10791.3	10372.6	10115.5
45°	12362.5	12416.4	12520.1	12594.7	12486.9	12540.8	11707.5	11661.9	11288.8	11239.0
47.5°	13274.6	13403.1	13635.3	13855.0	13995.9	13813.5	12901.5	12578.1	12482.7	12781.2
50°	14070.6	13917.2	14460.3	14684.1	15301.8	15604.5	14219.8	14091.3	13937.9	14510.0
52.5°	14149.3	14356.6	15123.6	15571.3	16844.0	17403.7	15836.6	15782.7	15596.2	16255.3
55°	14713.1	14688.3	15459.4	16429.5	17942.7	18883.7	17942.7	17909.5	17503.2	18129.2
57.5°	14617.8	14870.7	15480.1	16835.7	18933.5	20471.5	20384.5	20156.5	19588.5	20098.4
60°	14294.4	14360.8	15102.8	16823.3	19509.7	22100.8	23021.2	23066.8	21906.0	22312.2
62.5°	12462.0	12615.4	13556.5	15500.8	19099.3	23224.3	25595.6	25434.0	24505.3	24041.0
65°	9912.4	9759.0	10737.4	12839.3	16545.5	22428.3	26723.3	27324.4	25865.1	25015.2
67.5°	6077.6	6040.3	6981.4	8834.5	12379.1	19086.9	25823.7	26292.1	25487.9	24808.0
70°	3130.0	3034.7	3623.4	4929.3	7781.5	14004.2	22473.9	22934.1	23701.1	22250.1
72.5°	1459.3	1438.6	1753.6	2425.2	3963.3	8233.4	17403.7	17735.4	19352.2	18759.4
75°	858.2	870.6	1048.9	1268.6	1931.9	3880.4	11550.0	12192.5	13946.2	13519.2
77.5°	642.6	642.6	746.2	883.0	1127.6	1500.7	5700.4	6550.2	8154.6	7333.8
80°	472.6	480.9	572.1	663.3	783.5	775.2	2263.6	2653.3	3739.4	3196.3
82.5°	369.0	381.4	443.6	493.3	551.4	468.5	928.6	999.1	1538.1	1223.0
85°	257.0	265.3	348.2	335.8	335.8	261.2	385.6	406.3	609.4	580.4
87.5°	62.2	70.5	170.0	186.6	141.0	78.8	120.2	136.8	219.7	252.9
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°
4755.1	0°	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1
4838.0	2.5°	4775.9	4792.4	4862.9	4825.6	4846.3	4759.3	4829.8	4771.7	4821.5	4796.6
4875.4	5°	4908.5	4871.2	4912.7	4883.7	4883.7	4916.8	4966.6	4929.3	5003.9	4970.7
4904.4	7.5°	4962.4	4966.6	4991.4	4995.6	4974.9	5078.5	5082.6	5070.2	5140.7	5124.1
5103.4	10°	5095.1	5099.2	5144.8	5169.7	5149.0	5186.3	5144.8	5111.7	5107.5	5090.9
5260.9	12.5°	5306.5	5348.0	5339.7	5360.4	5364.6	5207.0	5111.7	4950.0	4929.3	4950.0
5493.1	15°	5501.4	5484.8	5493.1	5534.5	5360.4	5107.5	4937.5	4800.7	4809.0	4813.2
5795.7	17.5°	5733.5	5746.0	5758.4	5567.7	5248.5	4950.0	4800.7	4800.7	4759.3	4775.9
6007.1	20°	5998.8	5949.1	5841.3	5571.8	5053.6	4767.6	4722.0	4722.0	4672.2	4639.1
6235.2	22.5°	6206.1	6106.6	5945.0	5443.3	4879.5	4697.1	4585.2	4506.4	4448.4	4382.0
6488.0	25°	6338.8	6284.9	5969.8	5310.7	4751.0	4510.5	4344.7	4224.5	4149.9	4062.8
6687.0	27.5°	6541.9	6438.3	6040.3	5157.3	4610.0	4324.0	4066.9	3880.4	3739.4	3648.2
6989.7	30°	6815.6	6666.3	5990.6	4937.5	4394.5	4000.6	3698.0	3457.5	3295.8	3221.2
7275.7	32.5°	7039.4	6844.6	5949.1	4738.6	4154.0	3673.1	3271.0	3026.4	2935.2	2839.8
7756.6	35°	7466.4	7080.9	5920.1	4626.6	3938.4	3345.6	2922.7	2711.3	2595.2	2454.3
8042.7	37.5°	7793.9	7491.3	5849.6	4394.5	3660.7	3026.4	2657.4	2466.7	2292.6	2143.3
8706.0	40°	8308.0	8063.4	5853.7	4066.9	3333.2	2752.8	2450.1	2251.1	2031.4	1902.9
9688.5	42.5°	9274.0	8627.2	5878.6	3805.8	2964.2	2528.9	2263.6	2027.3	1807.5	1699.7
10807.9	45°	10459.6	9402.5	5725.2	3569.5	2586.9	2317.5	2039.7	1803.4	1662.4	1583.7
12329.4	47.5°	11823.6	10161.1	5517.9	3125.9	2271.9	2093.6	1832.4	1695.6	1592.0	1546.4
14290.3	50°	13349.2	11247.3	5459.9	2719.6	2027.3	1902.9	1732.9	1629.3	1558.8	1504.9
16499.9	52.5°	15314.3	12511.8	5343.8	2300.9	1815.8	1749.5	1695.6	1625.1	1562.9	1517.3
18560.4	55°	17192.3	13913.0	5219.5	1956.8	1666.6	1674.9	1703.9	1641.7	1587.8	1517.3
20869.5	57.5°	19306.6	15343.3	4759.3	1703.9	1554.6	1637.6	1695.6	1625.1	1571.2	1517.3
23232.6	60°	20612.5	16147.6	3859.7	1484.2	1455.1	1567.1	1645.8	1571.2	1513.2	1533.9
24318.8	62.5°	21143.1	15724.7	2910.3	1347.4	1384.7	1471.7	1567.1	1538.1	1496.6	1575.4
24306.3	65°	20239.4	14750.5	2081.1	1231.3	1289.3	1376.4	1496.6	1529.8	1542.2	1695.6
22324.7	67.5°	18009.0	12843.4	1529.8	1135.9	1189.8	1318.3	1546.4	1600.2	1592.0	1782.7
18734.5	70°	14410.5	10045.1	1194.0	1057.2	1152.5	1363.9	1616.8	1616.8	1558.8	1782.7
14290.3	72.5°	10484.5	7080.9	1028.1	966.0	1057.2	1252.0	1608.5	1604.4	1529.8	1629.3
9099.8	75°	6347.1	4120.8	907.9	874.7	907.9	1073.7	1538.1	1513.2	1409.5	1401.3
4377.9	77.5°	3163.2	2072.9	742.1	775.2	791.8	899.6	1351.5	1388.8	1247.9	1214.7
1728.8	80°	1334.9	903.8	617.7	667.5	667.5	758.7	1123.5	1148.4	1036.4	974.2
684.0	82.5°	609.4	518.2	526.5	580.4	543.1	588.7	891.3	920.3	841.6	737.9
290.2	85°	257.0	294.3	402.1	456.0	402.1	381.4	613.6	646.7	547.2	456.0
124.4	87.5°	116.1	161.7	252.9	331.7	203.1	178.3	327.5	339.9	273.6	203.1
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>
4755.1
4751.0
4925.1
5099.2
5090.9
4958.3
4871.2
4780.0
4589.3
4344.7
4079.4
3689.7
3262.7
2835.7
2441.8
2147.5
1915.3
1708.0
1600.2
1538.1
1513.2
1513.2
1513.2
1513.2
1517.3
1554.6
1695.6
1795.1
1745.3
1571.2
1384.7
1194.0
953.5
721.4
460.2
190.7
0.0

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