

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: P477526

Luminaire Tested: **IFLD-L-SA8D-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477526
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

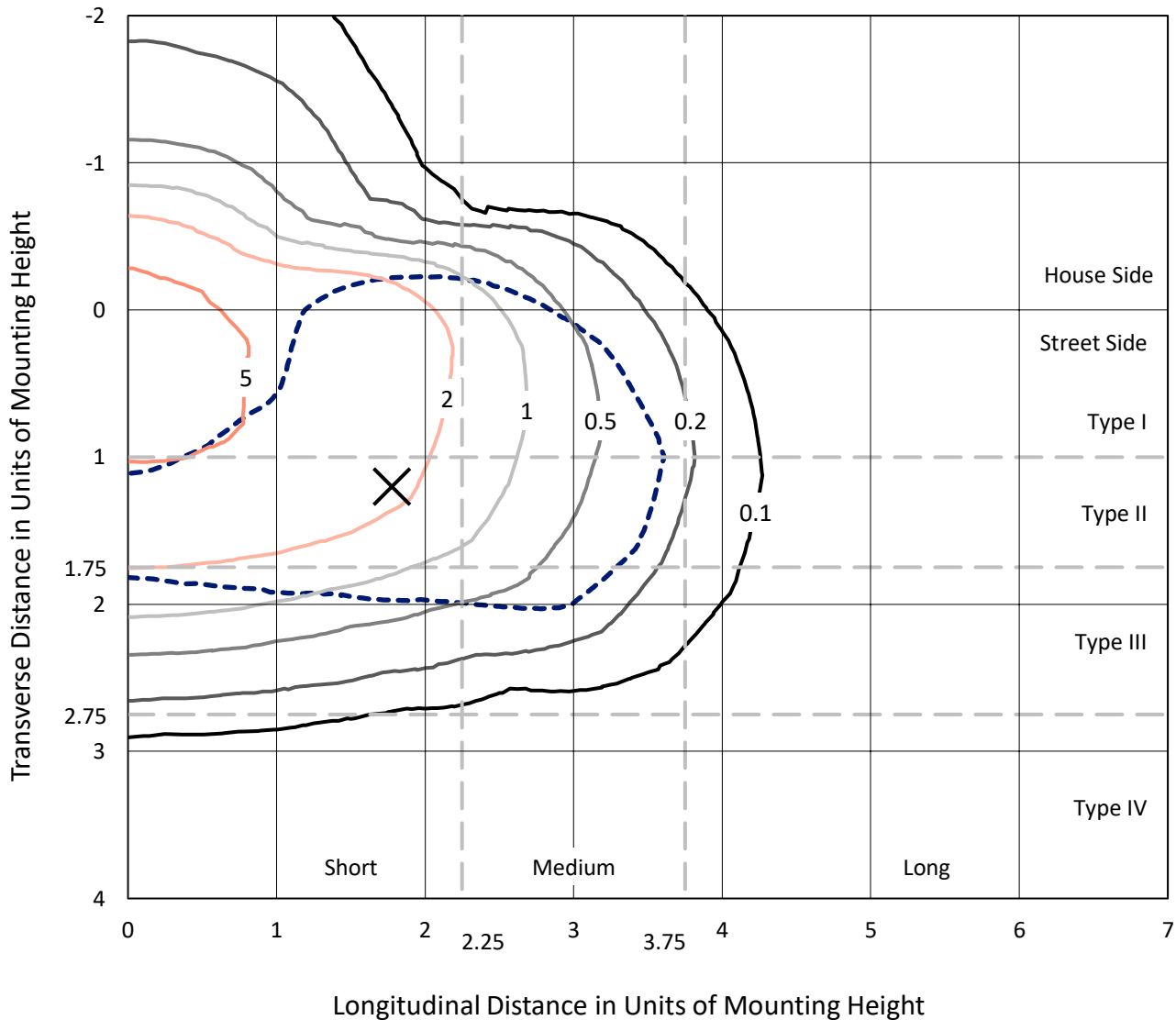
Lumens per Lamp: N/A
Luminaire Lumens: 41739.1 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

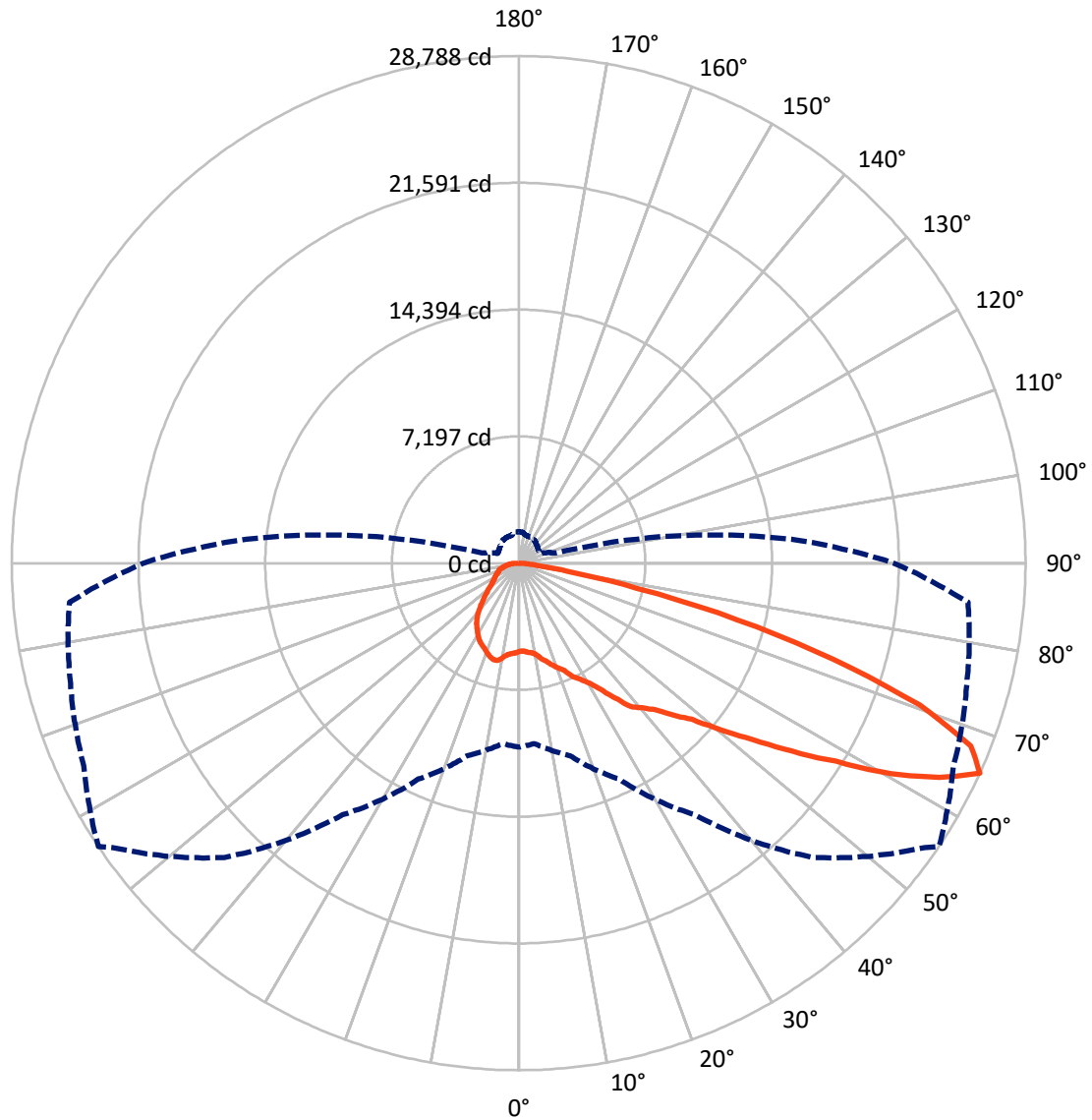
✕ Max cd
 - - - 1/2 Max cd



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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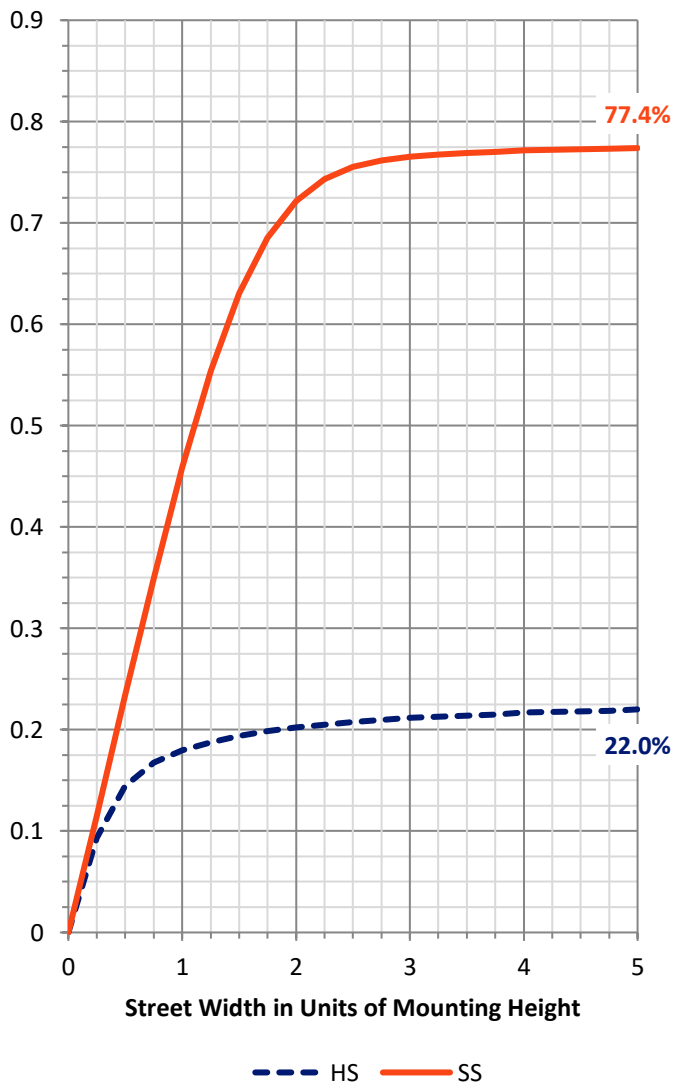
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9360.7	0.0	9360.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	32378.3	0.0	32378.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	41739.1	0.0	41739.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.5	1.2
10°-20°	1612.1	3.9
20°-30°	2870.4	6.9
30°-40°	4298.3	10.3
40°-50°	6368.5	15.3
50°-60°	9813.0	23.5
60°-70°	11109.5	26.6
70°-80°	4610.6	11.0
80°-90°	560.1	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°	41739.1	100.0
0°-180°	41739.1	100.0

Coefficient of Utilization

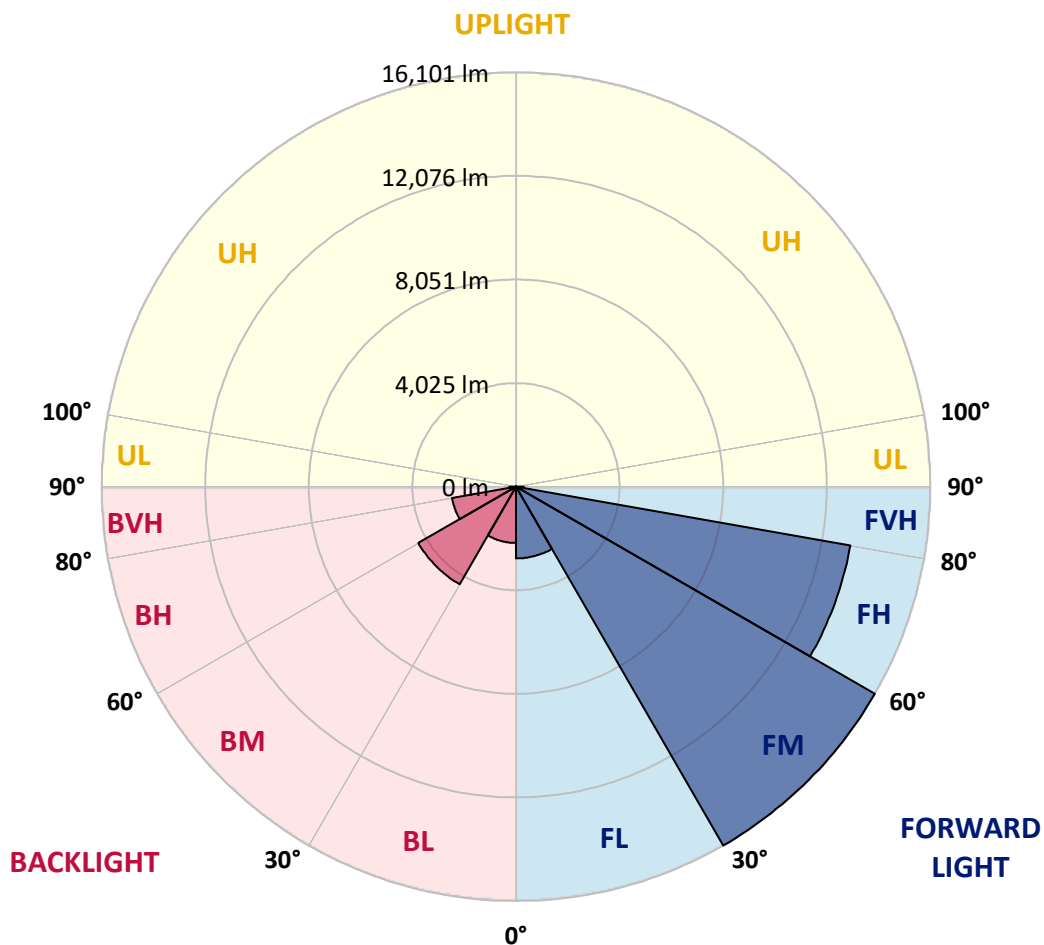


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2789.4	6.7			
FM (30°-60°)	16101.1	38.6			
FH (60°-80°)	13192.4	31.6			G5
FVH (80°-90°)	295.5	0.7			G3/500
BL (0°-30°)	2189.6	5.2	B3/2500		
BM (30°-60°)	4378.8	10.5	B3/5000		
BH (60°-80°)	2527.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	264.7	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°	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9
2.5°	4878.8	4905.1	4887.6	4940.0	4983.7	4983.7	5018.6	4992.4	5027.4	5075.4
5°	5040.5	4935.6	4992.4	5018.6	5005.5	5027.4	4992.4	5079.8	5023.0	5114.7
7.5°	5079.8	5119.1	5167.1	5123.4	5162.8	5140.9	5145.3	5132.2	5101.6	5175.9
10°	5368.0	5311.3	5420.5	5354.9	5346.2	5337.5	5320.0	5254.5	5328.7	5333.1
12.5°	5700.0	5647.6	5643.2	5590.8	5660.7	5534.0	5560.2	5525.3	5538.4	5555.9
15°	5940.2	5918.4	6018.8	5957.7	5866.0	5809.2	5870.3	5774.2	5822.3	5813.6
17.5°	6416.3	6411.9	6337.7	6237.2	6184.8	6101.8	6088.7	6049.4	6084.4	6066.9
20°	6748.3	6796.3	6809.4	6691.5	6490.6	6398.8	6377.0	6346.4	6385.7	6372.6
22.5°	7254.9	7180.7	7237.5	7032.2	6957.9	6739.5	6660.9	6617.2	6805.0	6757.0
25°	7578.2	7656.8	7600.0	7530.1	7364.1	7093.3	7036.5	7132.6	7206.9	7154.5
27.5°	8307.6	8229.0	8176.5	7966.9	7857.7	7573.8	7508.3	7473.3	7490.8	7521.4
30°	8862.3	8906.0	8788.0	8639.5	8364.4	8076.1	7923.2	7892.6	7831.5	7779.1
32.5°	9652.9	9587.3	9517.5	9421.4	9185.5	8805.5	8657.0	8543.4	8360.0	8115.4
35°	10032.9	10220.7	10168.3	9910.6	9731.5	9587.3	9543.7	9369.0	9216.1	8831.7
37.5°	10666.2	10744.8	10670.6	10587.6	10504.6	10351.7	10299.3	10347.3	10046.0	9412.6
40°	11076.8	11242.7	11395.6	11164.1	11146.7	11177.2	10854.0	10797.2	10177.0	9845.0
42.5°	11915.4	11985.3	12015.8	12007.1	12107.6	12107.6	11491.7	11369.4	10928.3	10657.5
45°	13024.8	13081.6	13190.8	13269.4	13155.8	13212.6	12334.7	12286.7	11893.5	11841.1
47.5°	13985.7	14121.1	14365.7	14597.2	14745.7	14553.5	13592.6	13251.9	13151.5	13466.0
50°	14824.3	14662.7	15234.9	15470.8	16121.6	16440.4	14981.6	14846.2	14684.6	15287.3
52.5°	14907.3	15125.7	15933.8	16405.5	17746.4	18336.1	16685.0	16628.3	16431.7	17126.2
55°	15501.4	15475.2	16287.6	17309.6	18903.9	19895.4	18903.9	18868.9	18440.9	19100.4
57.5°	15400.9	15667.3	16309.4	17737.7	19947.8	21568.2	21476.5	21236.3	20637.9	21175.1
60°	15060.2	15130.1	15911.9	17724.6	20554.9	23284.8	24254.5	24302.5	23079.5	23507.6
62.5°	13129.6	13291.2	14282.7	16331.2	20122.5	24468.5	26966.9	26796.5	25818.1	25328.9
65°	10443.4	10281.8	11312.6	13527.1	17431.9	23629.9	28154.9	28788.2	27250.8	26355.4
67.5°	6403.2	6363.9	7355.4	9307.8	13042.3	20109.4	27207.1	27700.7	26853.3	26137.0
70°	3297.7	3197.2	3817.5	5193.3	8198.4	14754.5	23677.9	24162.7	24970.8	23442.0
72.5°	1537.5	1515.6	1847.6	2555.2	4175.6	8674.5	18336.1	18685.5	20388.9	19764.3
75°	904.1	917.2	1105.1	1336.6	2035.4	4088.3	12168.7	12845.7	14693.3	14243.4
77.5°	677.0	677.0	786.2	930.3	1188.0	1581.1	6005.7	6901.1	8591.5	7726.7
80°	497.9	506.7	602.8	698.8	825.5	816.8	2384.8	2795.4	3939.8	3367.6
82.5°	388.7	401.8	467.4	519.8	580.9	493.6	978.4	1052.6	1620.5	1288.5
85°	270.8	279.5	366.9	353.8	353.8	275.2	406.2	428.0	642.1	611.5
87.5°	65.5	74.3	179.1	196.6	148.5	83.0	126.7	144.1	231.5	266.4
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°
5009.9	0°	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9	5009.9
5097.2	2.5°	5031.7	5049.2	5123.4	5084.1	5106.0	5014.2	5088.5	5027.4	5079.8	5053.6
5136.5	5°	5171.5	5132.2	5175.9	5145.3	5145.3	5180.2	5232.6	5193.3	5271.9	5237.0
5167.1	7.5°	5228.3	5232.6	5258.8	5263.2	5241.4	5350.6	5354.9	5341.8	5416.1	5398.6
5376.8	10°	5368.0	5372.4	5420.5	5446.7	5424.8	5464.1	5420.5	5385.5	5381.1	5363.7
5542.8	12.5°	5590.8	5634.5	5625.7	5647.6	5651.9	5486.0	5385.5	5215.2	5193.3	5215.2
5787.3	15°	5796.1	5778.6	5787.3	5831.0	5647.6	5381.1	5202.1	5057.9	5066.7	5071.0
6106.2	17.5°	6040.7	6053.8	6066.9	5866.0	5529.6	5215.2	5057.9	5057.9	5014.2	5031.7
6329.0	20°	6320.2	6267.8	6154.2	5870.3	5324.4	5023.0	4974.9	4974.9	4922.5	4887.6
6569.2	22.5°	6538.6	6433.8	6263.4	5734.9	5140.9	4948.7	4830.8	4747.8	4686.7	4616.8
6835.6	25°	6678.4	6621.6	6289.6	5595.2	5005.5	4752.2	4577.5	4450.8	4372.2	4280.5
7045.3	27.5°	6892.4	6783.2	6363.9	5433.6	4857.0	4555.6	4284.8	4088.3	3939.8	3843.7
7364.1	30°	7180.7	7023.4	6311.5	5202.1	4629.9	4214.9	3896.1	3642.8	3472.4	3393.8
7665.5	32.5°	7416.5	7211.3	6267.8	4992.4	4376.5	3869.9	3446.2	3188.5	3092.4	2992.0
8172.2	35°	7866.4	7460.2	6237.2	4874.5	4149.4	3524.8	3079.3	2856.5	2734.2	2585.7
8473.6	37.5°	8211.5	7892.6	6163.0	4629.9	3856.8	3188.5	2799.8	2598.8	2415.4	2258.2
9172.4	40°	8753.1	8495.4	6167.3	4284.8	3511.7	2900.2	2581.4	2371.7	2140.2	2004.8
10207.6	42.5°	9770.8	9089.4	6193.6	4009.7	3123.0	2664.4	2384.8	2135.9	1904.4	1790.8
11386.9	45°	11020.0	9906.2	6031.9	3760.7	2725.5	2441.6	2149.0	1900.0	1751.5	1668.5
12989.9	47.5°	12457.0	10705.5	5813.6	3293.3	2393.6	2205.7	1930.6	1786.4	1677.2	1629.2
15055.8	50°	14064.4	11849.9	5752.4	2865.3	2135.9	2004.8	1825.7	1716.5	1642.3	1585.5
17383.9	52.5°	16134.7	13182.1	5630.1	2424.1	1913.1	1843.2	1786.4	1712.2	1646.7	1598.6
19554.7	55°	18113.3	14658.4	5499.1	2061.6	1755.9	1764.6	1795.2	1729.7	1672.9	1598.6
21987.6	57.5°	20340.9	16165.3	5014.2	1795.2	1637.9	1725.3	1786.4	1712.2	1655.4	1598.6
24477.2	60°	21716.8	17012.6	4066.4	1563.7	1533.1	1651.0	1734.0	1655.4	1594.3	1616.1
25621.6	62.5°	22275.8	16567.1	3066.2	1419.5	1458.8	1550.6	1651.0	1620.5	1576.8	1659.8
25608.5	65°	21323.7	15540.7	2192.6	1297.2	1358.4	1450.1	1576.8	1611.7	1624.8	1786.4
23520.7	67.5°	18973.8	13531.5	1611.7	1196.8	1253.6	1389.0	1629.2	1686.0	1677.2	1878.2
19738.1	70°	15182.5	10583.2	1257.9	1113.8	1214.3	1437.0	1703.4	1703.4	1642.3	1878.2
15055.8	72.5°	11046.2	7460.2	1083.2	1017.7	1113.8	1319.1	1694.7	1690.3	1611.7	1716.5
9587.3	75°	6687.1	4341.6	956.6	921.6	956.6	1131.3	1620.5	1594.3	1485.1	1476.3
4612.4	77.5°	3332.6	2183.9	781.8	816.8	834.3	947.8	1423.9	1463.2	1314.7	1279.8
1821.4	80°	1406.4	952.2	650.8	703.2	703.2	799.3	1183.7	1209.9	1092.0	1026.4
720.7	82.5°	642.1	546.0	554.7	611.5	572.2	620.2	939.1	969.7	886.7	777.5
305.7	85°	270.8	310.1	423.7	480.5	423.7	401.8	646.4	681.4	576.6	480.5
131.0	87.5°	122.3	170.3	266.4	349.4	214.0	187.8	345.1	358.2	288.3	214.0
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>
5009.9
5005.5
5189.0
5372.4
5363.7
5223.9
5132.2
5036.1
4835.2
4577.5
4297.9
3887.4
3437.5
2987.6
2572.6
2262.5
2017.9
1799.5
1686.0
1620.5
1594.3
1594.3
1594.3
1594.3
1598.6
1637.9
1786.4
1891.3
1838.8
1655.4
1458.8
1257.9
1004.6
760.0
484.8
200.9
0.0

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