

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: P477291

Luminaire Tested: **IFLD-L-SA8C-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477291
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

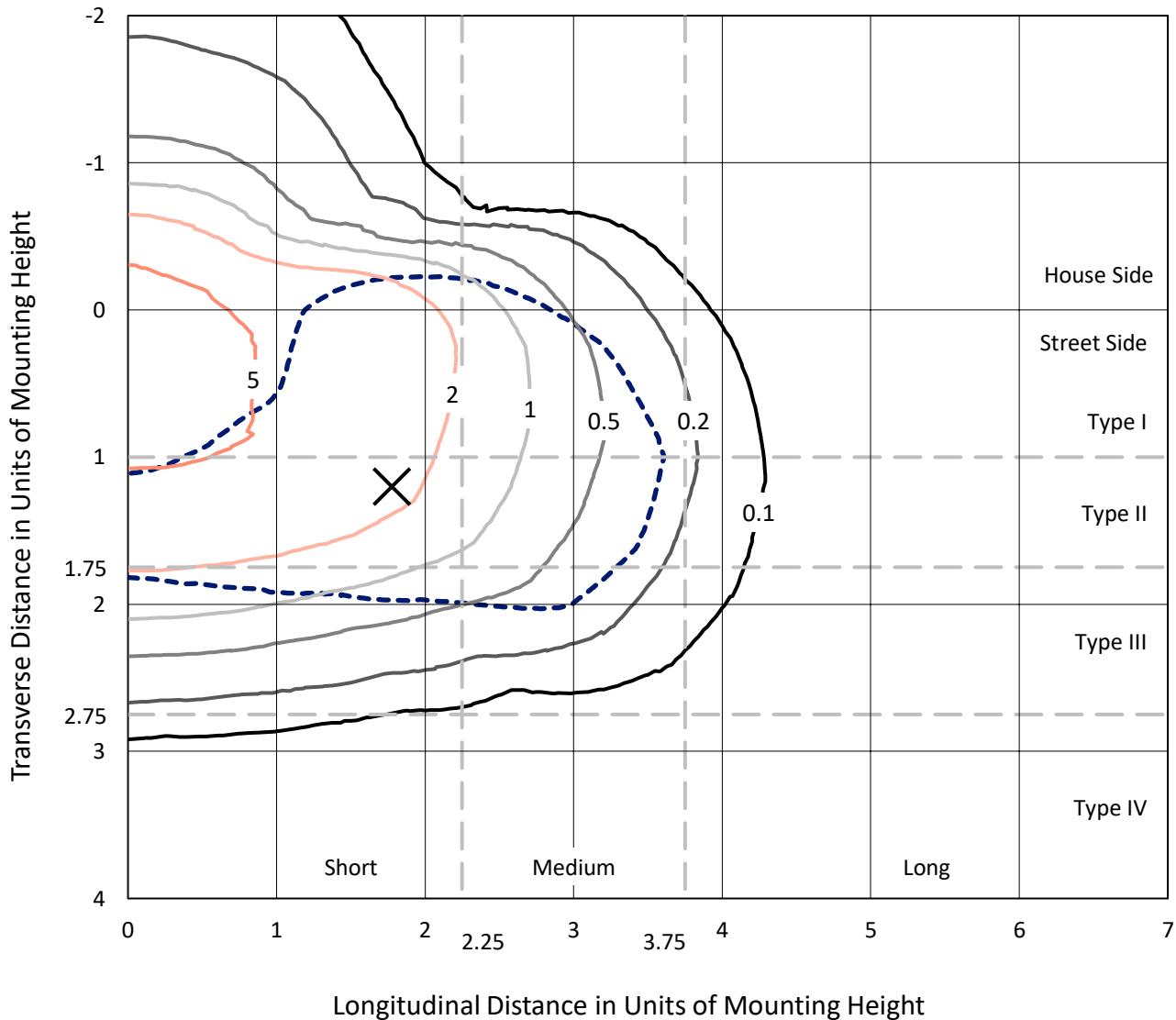
Lumens per Lamp: N/A
Luminaire Lumens: 43155 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

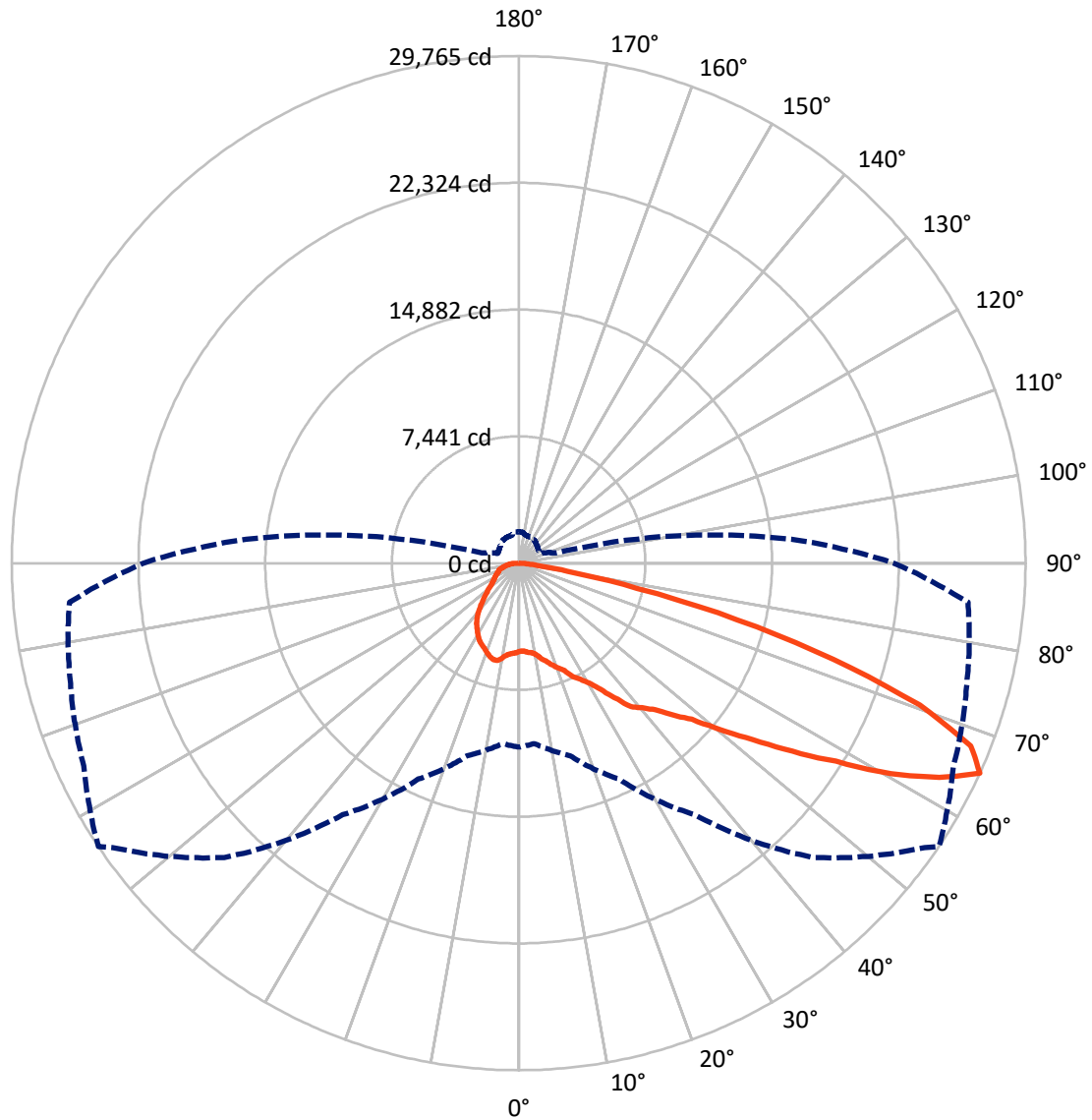
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	9678.3	0.0	9678.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	33476.7	0.0	33476.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	43155.0	0.0	43155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	1.2
10°-20°	1666.8	3.9
20°-30°	2967.8	6.9
30°-40°	4444.2	10.3
40°-50°	6584.6	15.3
50°-60°	10145.9	23.5
60°-70°	11486.4	26.6
70°-80°	4767.0	11.0
80°-90°	579.1	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°	43155.0	100.0
0°-180°	43155.0	100.0

Coefficient of Utilization



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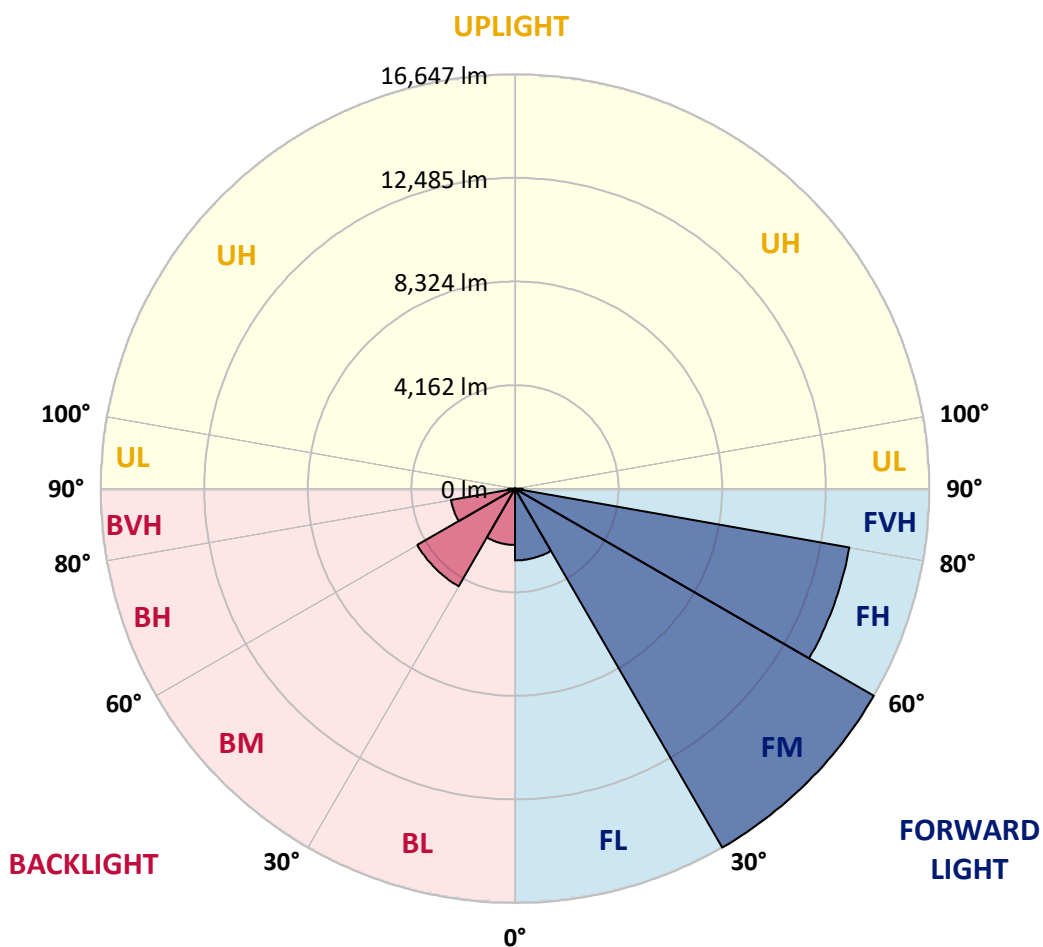
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2884.0	6.7			
FM (30°-60°)	16647.3	38.6			
FH (60°-80°)	13639.9	31.6			G5
FVH (80°-90°)	305.5	0.7			G3/500
BL (0°-30°)	2263.8	5.2	B3/2500		
BM (30°-60°)	4527.3	10.5	B3/5000		
BH (60°-80°)	2613.5	6.1	B4/5000		G4/5000
BVH (80°-90°)	273.7	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°	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8
2.5°	5044.4	5071.4	5053.4	5107.6	5152.7	5152.7	5188.9	5161.8	5197.9	5247.6
5°	5211.4	5103.1	5161.8	5188.9	5175.3	5197.9	5161.8	5252.1	5193.4	5288.2
7.5°	5252.1	5292.7	5342.4	5297.2	5337.9	5315.3	5319.8	5306.3	5274.7	5351.4
10°	5550.1	5491.4	5604.3	5536.6	5527.6	5518.5	5500.5	5432.7	5509.5	5514.0
12.5°	5893.4	5839.2	5834.6	5780.5	5852.7	5721.7	5748.8	5712.7	5726.3	5744.3
15°	6141.7	6119.2	6223.0	6159.8	6065.0	6006.3	6069.5	5970.1	6019.8	6010.8
17.5°	6634.0	6629.5	6552.7	6448.8	6394.6	6308.8	6295.3	6254.6	6290.8	6272.7
20°	6977.2	7026.9	7040.4	6918.5	6710.7	6615.9	6593.3	6561.7	6602.4	6588.8
22.5°	7501.0	7424.3	7483.0	7270.7	7194.0	6968.2	6886.9	6841.7	7035.9	6986.2
25°	7835.2	7916.5	7857.8	7785.6	7613.9	7334.0	7275.2	7374.6	7451.4	7397.2
27.5°	8589.4	8508.1	8453.9	8237.2	8124.3	7830.7	7763.0	7726.8	7744.9	7776.5
30°	9162.9	9208.1	9086.2	8932.6	8648.1	8350.1	8192.0	8160.4	8097.2	8043.0
32.5°	9980.3	9912.6	9840.3	9741.0	9497.1	9104.2	8950.7	8833.3	8643.6	8390.7
35°	10373.2	10567.4	10513.2	10246.8	10061.6	9912.6	9867.4	9686.8	9528.7	9131.3
37.5°	11028.0	11109.3	11032.5	10946.7	10860.9	10702.9	10648.7	10698.4	10386.8	9731.9
40°	11452.5	11624.1	11782.2	11542.8	11524.8	11556.4	11222.2	11163.5	10522.2	10179.0
42.5°	12319.6	12391.9	12423.5	12414.4	12518.3	12518.3	11881.5	11755.1	11299.0	11019.0
45°	13466.7	13525.4	13638.3	13719.6	13602.1	13660.8	12753.1	12703.5	12297.0	12242.8
47.5°	14460.2	14600.2	14853.1	15092.4	15246.0	15047.3	14053.7	13701.5	13597.6	13922.8
50°	15327.2	15160.2	15751.7	15995.6	16668.5	16998.2	15489.8	15349.8	15182.7	15805.9
52.5°	15413.0	15638.8	16474.3	16962.0	18348.4	18958.1	17251.1	17192.3	16989.1	17707.2
55°	16027.2	16000.1	16840.1	17896.8	19545.2	20570.3	19545.2	19509.0	19066.5	19748.4
57.5°	15923.4	16198.8	16862.7	18339.4	20624.5	22299.9	22205.1	21956.7	21338.0	21893.5
60°	15571.1	15643.4	16451.7	18325.9	21252.2	24074.7	25077.2	25126.9	23862.4	24305.0
62.5°	13575.0	13742.1	14767.3	16885.3	20805.1	25298.5	27881.7	27705.5	26694.0	26188.2
65°	10797.7	10630.6	11696.4	13986.0	18023.3	24431.5	29110.0	29764.8	28175.2	27249.4
67.5°	6620.4	6579.8	7604.9	9623.6	13484.7	20791.6	28130.1	28640.4	27764.3	27023.6
70°	3409.6	3305.7	3947.0	5369.5	8476.5	15255.0	24481.1	24982.4	25817.9	24237.3
72.5°	1589.6	1567.0	1910.3	2641.8	4317.3	8968.7	18958.1	19319.4	21080.6	20434.8
75°	934.8	948.4	1142.5	1381.9	2104.4	4227.0	12581.5	13281.5	15191.8	14726.6
77.5°	700.0	700.0	812.9	961.9	1228.3	1634.8	6209.5	7135.3	8882.9	7988.8
80°	514.8	523.9	623.2	722.6	853.5	844.5	2465.7	2890.2	4073.4	3481.8
82.5°	401.9	415.5	483.2	537.4	600.6	510.3	1011.6	1088.4	1675.4	1332.2
85°	280.0	289.0	379.3	365.8	365.8	284.5	420.0	442.6	663.8	632.2
87.5°	67.7	76.8	185.2	203.2	153.5	85.8	131.0	149.0	239.3	275.5
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°
5179.8	0°	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8	5179.8
5270.2	2.5°	5202.4	5220.5	5297.2	5256.6	5279.2	5184.3	5261.1	5197.9	5252.1	5225.0
5310.8	5°	5346.9	5306.3	5351.4	5319.8	5319.8	5356.0	5410.1	5369.5	5450.8	5414.7
5342.4	7.5°	5405.6	5410.1	5437.2	5441.8	5419.2	5532.1	5536.6	5523.0	5599.8	5581.8
5559.2	10°	5550.1	5554.7	5604.3	5631.4	5608.8	5649.5	5604.3	5568.2	5563.7	5545.6
5730.8	12.5°	5780.5	5825.6	5816.6	5839.2	5843.7	5672.1	5568.2	5392.1	5369.5	5392.1
5983.7	15°	5992.7	5974.6	5983.7	6028.8	5839.2	5563.7	5378.5	5229.5	5238.5	5243.1
6313.3	17.5°	6245.6	6259.2	6272.7	6065.0	5717.2	5392.1	5229.5	5229.5	5184.3	5202.4
6543.7	20°	6534.6	6480.4	6363.0	6069.5	5505.0	5193.4	5143.7	5143.7	5089.5	5053.4
6792.0	22.5°	6760.4	6652.0	6475.9	5929.5	5315.3	5116.6	4994.7	4908.9	4845.6	4773.4
7067.5	25°	6904.9	6846.2	6503.0	5785.0	5175.3	4913.4	4732.7	4601.8	4520.5	4425.7
7284.3	27.5°	7126.2	7013.3	6579.8	5617.9	5021.8	4710.2	4430.2	4227.0	4073.4	3974.1
7613.9	30°	7424.3	7261.7	6525.6	5378.5	4786.9	4357.9	4028.3	3766.3	3590.2	3508.9
7925.5	32.5°	7668.1	7455.9	6480.4	5161.8	4525.0	4001.2	3563.1	3296.7	3197.3	3093.4
8449.4	35°	8133.3	7713.3	6448.8	5039.8	4290.2	3644.4	3183.8	2953.5	2827.0	2673.5
8761.0	37.5°	8490.0	8160.4	6372.1	4786.9	3987.6	3296.7	2894.7	2687.0	2497.3	2334.8
9483.6	40°	9050.0	8783.6	6376.6	4430.2	3630.8	2998.6	2668.9	2452.2	2212.8	2072.8
10553.8	42.5°	10102.3	9397.8	6403.7	4145.7	3228.9	2754.7	2465.7	2208.3	1969.0	1851.6
11773.2	45°	11393.8	10242.2	6236.6	3888.3	2818.0	2524.4	2221.9	1964.5	1810.9	1725.1
13430.5	47.5°	12879.6	11068.7	6010.8	3405.1	2474.8	2280.6	1996.1	1847.0	1734.1	1684.5
15566.6	50°	14541.5	12251.9	5947.5	2962.5	2208.3	2072.8	1887.7	1774.8	1698.0	1639.3
17973.6	52.5°	16682.0	13629.2	5821.1	2506.4	1978.0	1905.7	1847.0	1770.3	1702.5	1652.8
20218.1	55°	18727.8	15155.6	5685.6	2131.5	1815.4	1824.5	1856.1	1788.3	1729.6	1652.8
22733.5	57.5°	21030.9	16713.6	5184.3	1856.1	1693.5	1783.8	1847.0	1770.3	1711.6	1652.8
25307.6	60°	22453.5	17589.7	4204.4	1616.7	1585.1	1707.0	1792.8	1711.6	1648.3	1670.9
26490.7	62.5°	23031.5	17129.1	3170.2	1467.7	1508.3	1603.2	1707.0	1675.4	1630.3	1716.1
26477.2	65°	22047.0	16067.9	2267.0	1341.2	1404.5	1499.3	1630.3	1666.4	1679.9	1847.0
24318.6	67.5°	19617.4	13990.5	1666.4	1237.4	1296.1	1436.1	1684.5	1743.2	1734.1	1941.9
20407.7	70°	15697.6	10942.2	1300.6	1151.6	1255.4	1485.8	1761.2	1761.2	1698.0	1941.9
15566.6	72.5°	11420.9	7713.3	1120.0	1052.2	1151.6	1363.8	1752.2	1747.7	1666.4	1774.8
9912.6	75°	6914.0	4488.9	989.0	952.9	989.0	1169.6	1675.4	1648.3	1535.4	1526.4
4768.9	77.5°	3445.7	2258.0	808.4	844.5	862.6	980.0	1472.2	1512.9	1359.3	1323.2
1883.2	80°	1454.1	984.5	672.9	727.1	727.1	826.4	1223.8	1250.9	1129.0	1061.3
745.1	82.5°	663.8	564.5	573.5	632.2	591.6	641.3	970.9	1002.5	916.7	803.8
316.1	85°	280.0	320.6	438.1	496.8	438.1	415.5	668.4	704.5	596.1	496.8
135.5	87.5°	126.4	176.1	275.5	361.3	221.3	194.2	356.8	370.3	298.1	221.3
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>
5179.8
5175.3
5365.0
5554.7
5545.6
5401.1
5306.3
5206.9
4999.2
4732.7
4443.7
4019.2
3554.1
3088.9
2659.9
2339.3
2086.4
1860.6
1743.2
1675.4
1648.3
1648.3
1648.3
1648.3
1652.8
1693.5
1847.0
1955.4
1901.2
1711.6
1508.3
1300.6
1038.7
785.8
501.3
207.7
0.0

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