

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: P477681

Luminaire Tested: **IFLD-L-SA8C-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477681
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-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

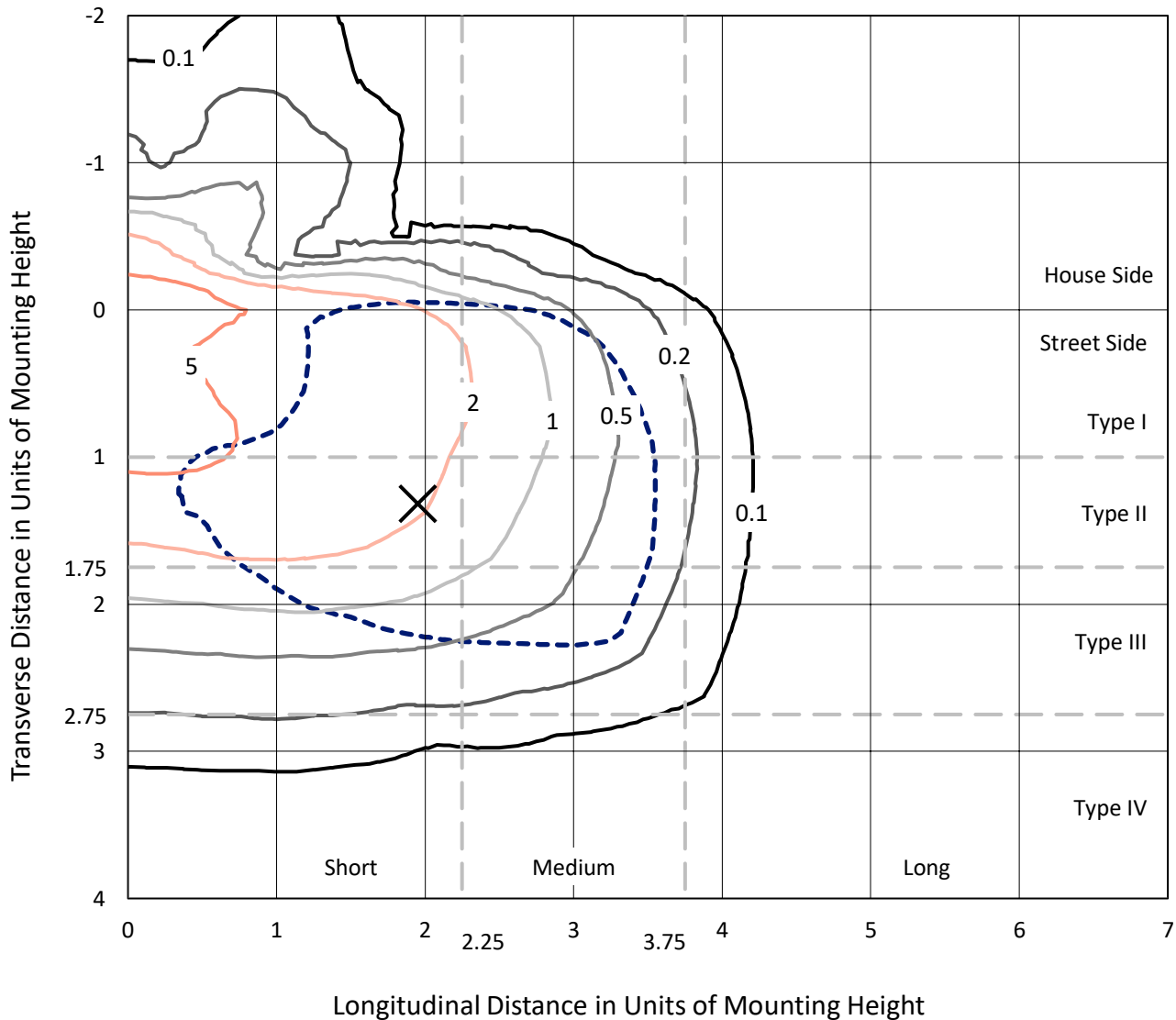
Lumens per Lamp: N/A
Luminaire Lumens: 41620.2 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

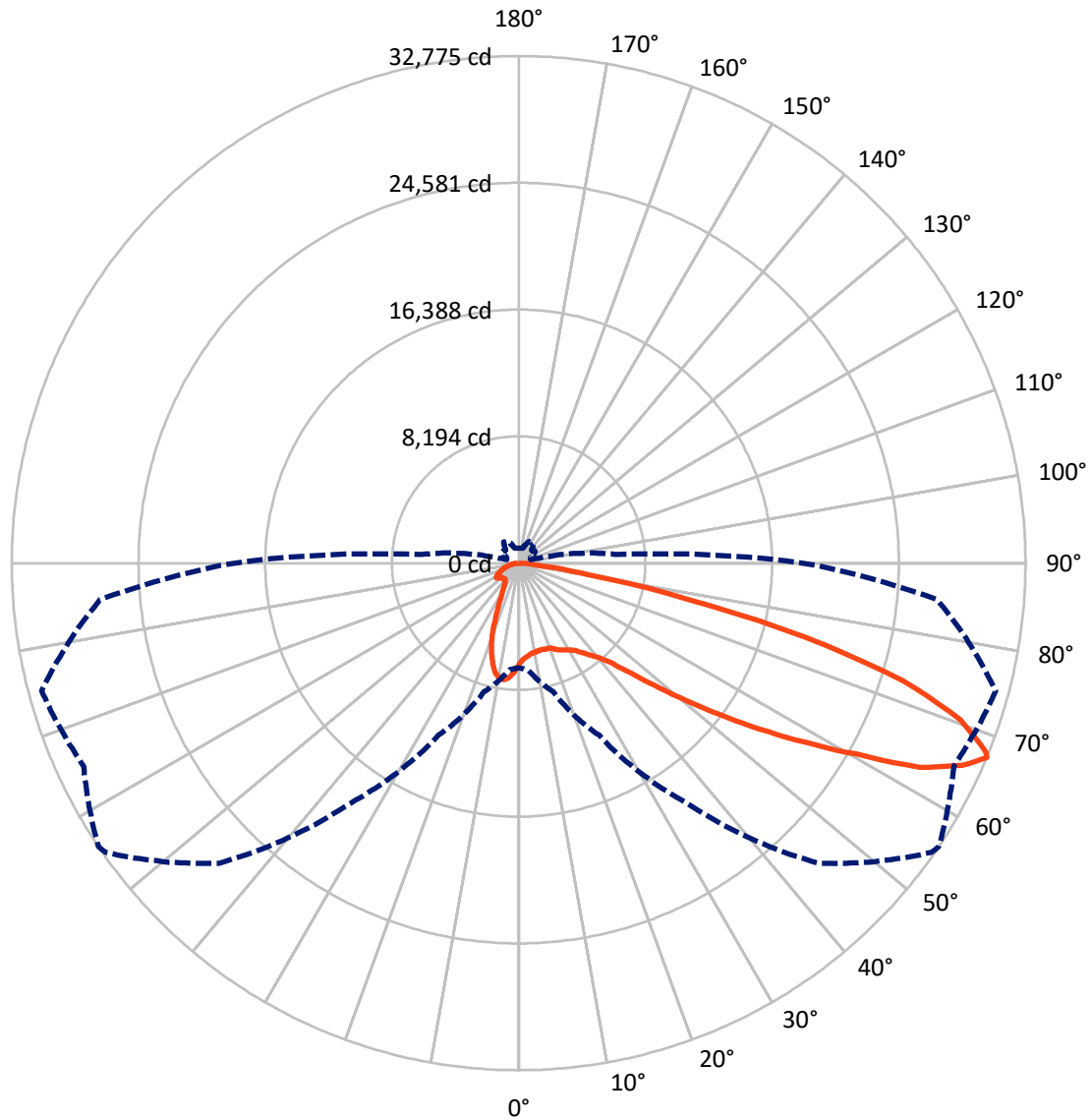
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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	6588.9	0.0	6588.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	35031.3	0.0	35031.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	41620.2	0.0	41620.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.9	1.5
10°-20°	1702.0	4.1
20°-30°	2669.3	6.4
30°-40°	3810.4	9.2
40°-50°	5751.0	13.8
50°-60°	9154.7	22.0
60°-70°	11703.5	28.1
70°-80°	5706.2	13.7
80°-90°	499.2	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°	41620.2	100.0
0°-180°	41620.2	100.0

Coefficient of Utilization

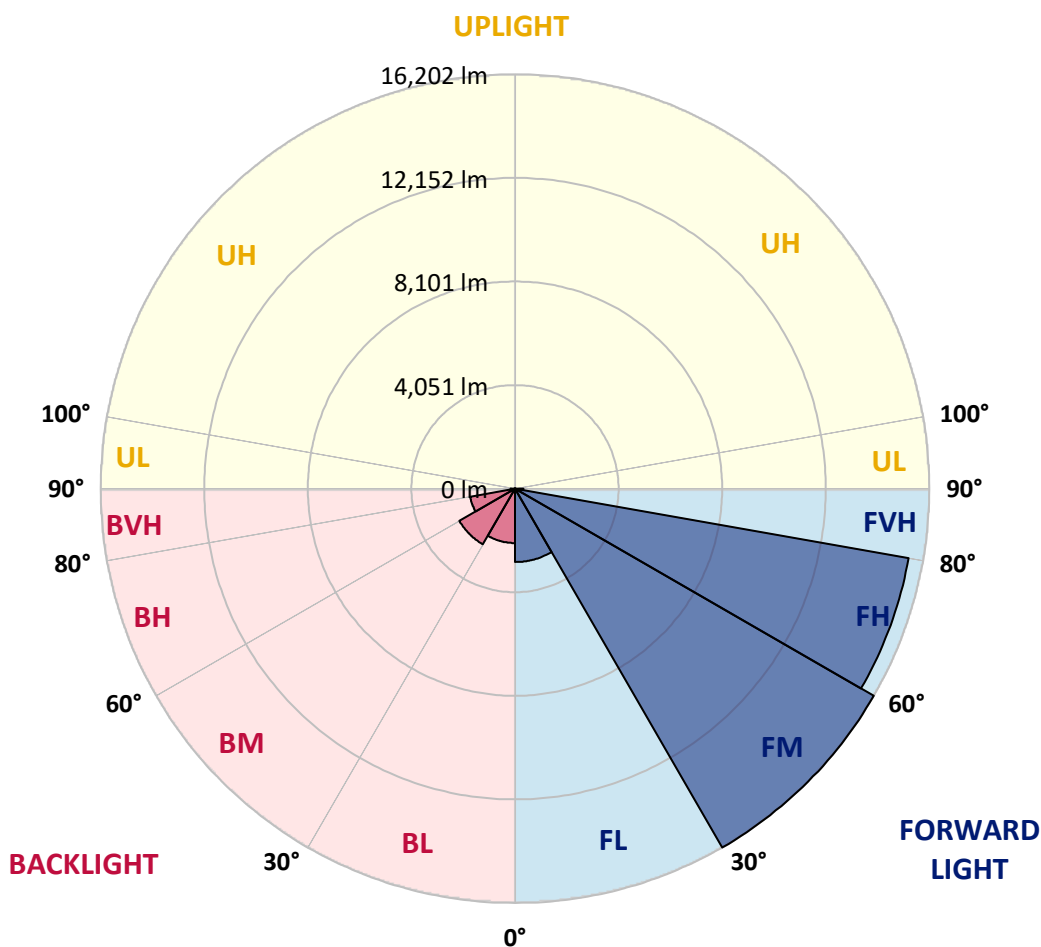


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2868.1	6.9			
FM (30°-60°)	16202.4	38.9			
FH (60°-80°)	15629.3	37.6			G5
FVH (80°-90°)	331.5	0.8			G3/500
BL (0°-30°)	2127.1	5.1	B3/2500		
BM (30°-60°)	2513.7	6.0	B3/5000		
BH (60°-80°)	1780.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	167.7	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°	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0
2.5°	5948.9	5924.5	5953.8	5924.5	6056.3	6134.4	6158.8	6192.9	6314.9	6432.1
5°	5700.0	5592.7	5709.8	5748.8	5758.6	5890.4	6027.0	6051.4	6114.9	6305.2
7.5°	5285.2	5407.2	5363.3	5480.4	5602.4	5734.2	5958.7	5895.3	6129.5	6310.1
10°	5197.4	5207.1	5255.9	5299.9	5407.2	5578.0	5890.4	5851.3	6090.5	6476.0
12.5°	5285.2	5285.2	5270.6	5236.4	5358.4	5524.4	5773.2	5792.8	6168.5	6524.8
15°	5592.7	5651.2	5495.1	5519.5	5470.7	5524.4	5744.0	5787.9	6197.8	6563.8
17.5°	6344.2	6324.7	6139.3	5880.6	5665.9	5631.7	5783.0	5831.8	6168.5	6676.1
20°	7076.3	7037.2	6715.1	6446.7	6022.1	5822.0	5846.4	5851.3	6217.3	6749.3
22.5°	7891.2	7993.7	7642.4	7095.8	6568.7	6070.9	5973.3	6051.4	6329.6	6788.3
25°	9169.8	8950.2	8647.7	7930.3	7081.1	6456.5	6183.2	6222.2	6437.0	6885.9
27.5°	10092.2	10004.4	9531.0	8950.2	7798.5	6759.0	6295.4	6368.6	6632.2	6881.0
30°	10980.4	10980.4	10692.5	9823.8	8554.9	7266.6	6534.6	6500.4	6539.4	6871.3
32.5°	12019.9	11878.3	11463.5	10887.7	9506.6	7730.2	6724.9	6734.6	6734.6	7051.9
35°	12566.5	12795.8	12517.6	11580.7	10233.7	8501.3	7183.6	7110.4	7056.7	7251.9
37.5°	13366.8	13503.4	13210.6	12659.2	11136.6	9125.9	7588.7	7530.1	7217.8	7408.1
40°	13849.9	13825.5	13815.8	13562.0	12332.2	9862.8	8184.1	8032.8	7613.1	7959.6
42.5°	14123.2	14074.4	14674.7	14518.5	13459.5	10946.2	8930.7	8847.8	8384.1	8940.5
45°	14430.7	14791.8	15284.7	15723.9	14772.3	12468.8	10194.7	10077.6	9662.7	10370.4
47.5°	14699.1	15143.2	15772.7	16241.2	15958.2	14123.2	11756.3	11785.6	11512.3	12239.5
50°	15148.1	15192.0	16046.0	16992.8	17212.4	15650.7	13854.8	13806.0	13684.0	14704.0
52.5°	15011.4	15143.2	16221.7	17432.0	17793.1	17266.1	16109.5	16255.9	16094.8	17378.3
55°	12786.1	13181.4	16114.3	17895.6	19169.3	19091.2	19008.3	18910.7	18900.9	20384.5
57.5°	11775.9	12098.0	14196.4	18408.0	20643.1	21219.0	21755.8	21863.2	21858.3	23649.3
60°	11112.2	11444.0	13420.5	18129.8	21897.3	24005.6	25035.3	25049.9	25020.7	27138.7
62.5°	9814.0	10136.1	12078.4	16607.2	22243.8	26577.4	28871.1	29061.4	27719.4	30144.8
65°	8252.4	8515.9	10228.8	14279.4	21321.5	28212.3	31755.3	31530.8	29993.6	31862.7
67°	6749.3	6925.0	8594.0	12259.0	18910.7	27426.6	32589.8	32775.3	31042.8	31935.9
67.5°	6319.8	6480.9	8057.2	11570.9	17993.2	26831.2	32619.1	32589.8	31062.3	31950.5
70°	4387.3	4455.6	5490.2	7959.6	13254.6	22668.4	30237.6	30305.9	29759.3	30218.0
72.5°	2908.6	3011.1	3669.9	5016.8	7813.2	16495.0	25274.4	26006.5	25660.0	24776.6
75°	1874.0	1932.5	2401.0	2986.7	3845.6	9394.3	18671.5	19159.6	18364.1	15323.7
77.5°	1049.2	1112.7	1449.4	1815.4	1874.0	3909.0	10487.5	11092.6	9399.2	6510.2
80°	653.9	736.9	1093.2	1078.5	893.1	1434.8	4323.8	4631.3	3757.7	2240.0
82.5°	492.9	556.3	844.3	756.4	502.7	639.3	1620.2	1737.3	1376.2	863.8
85°	336.7	424.6	610.0	468.5	263.5	307.5	644.2	693.0	629.5	419.7
87.5°	122.0	180.6	317.2	234.2	117.1	92.7	209.8	234.2	224.5	190.3
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°
6476.0	0°	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0	6476.0
6534.6	2.5°	6627.3	6695.6	6729.8	6929.8	7012.8	6998.2	7017.7	7047.0	7076.3	7115.3
6617.5	5°	6681.0	6890.8	7003.1	7237.3	7393.5	7325.1	7413.0	7388.6	7354.4	7349.5
6768.8	7.5°	6856.6	7125.1	7461.8	7525.2	7593.6	7422.7	7276.3	7076.3	7027.5	6856.6
6895.7	10°	7169.0	7388.6	7798.5	7822.9	7520.3	7081.1	6754.2	6339.3	6334.5	6085.6
7090.9	12.5°	7466.7	7715.6	8047.4	7905.9	7183.6	6583.4	6051.4	5597.6	5407.2	5280.3
7208.0	15°	7652.1	8062.0	8237.7	7627.7	6593.1	5783.0	5094.9	4606.9	4411.7	4319.0
7354.4	17.5°	7822.9	8393.9	8315.8	7139.7	5866.0	4958.3	4138.4	3713.8	3660.1	3591.8
7588.7	20°	8057.2	8515.9	8037.6	6505.3	5041.2	3894.4	3372.2	3167.2	3216.0	3245.3
7613.1	22.5°	8276.8	8579.3	7686.3	5812.3	3982.2	3084.3	2825.6	2869.5	2942.7	3040.3
7671.6	25°	8374.4	8681.8	7212.9	4855.8	3030.6	2596.3	2537.7	2610.9	2732.9	2737.8
7754.6	27.5°	8437.8	8608.6	6641.9	3923.7	2396.2	2269.3	2357.1	2410.8	2425.4	2484.0
7930.3	30°	8550.1	8457.3	5919.7	2806.1	2010.6	2015.5	2127.8	2127.8	2127.8	2171.7
8106.0	32.5°	8745.3	8354.9	5075.4	2049.7	1732.5	1888.6	1859.3	1849.6	1830.1	1776.4
8330.5	35°	8867.3	8076.7	4006.6	1517.7	1556.8	1732.5	1722.7	1571.4	1317.6	1190.8
8901.4	37.5°	9121.0	7935.2	2947.6	1171.2	1454.3	1654.4	1600.7	1234.7	956.5	834.5
9609.1	40°	9667.6	7842.4	2039.9	1024.8	1386.0	1615.3	1429.9	1054.1	732.0	517.3
10702.2	42.5°	10336.2	7847.3	1386.0	966.3	1390.8	1698.3	1376.2	902.8	517.3	414.8
12161.4	45°	11234.2	7774.1	951.6	966.3	1478.7	1834.9	1410.4	819.9	502.7	527.1
13991.5	47.5°	12200.4	7837.6	707.6	878.4	1493.3	1839.8	1288.4	805.2	483.1	610.0
15982.6	50°	13327.8	7901.0	585.6	810.1	1498.2	1781.3	1185.9	785.7	502.7	644.2
18266.5	52.5°	14489.2	8101.1	497.8	766.2	1556.8	1756.9	1185.9	815.0	502.7	561.2
21175.1	55°	16221.7	8613.5	717.4	956.5	1771.5	1917.9	1459.2	1142.0	702.7	722.3
23961.7	57.5°	18134.7	9140.6	800.3	1005.3	1820.3	1727.6	1571.4	1259.1	741.8	746.7
26128.5	60°	19393.8	9160.1	795.5	980.9	1703.2	1493.3	1537.3	1327.4	756.4	639.3
27470.5	62.5°	19896.5	8564.7	829.6	980.9	1586.1	1395.7	1576.3	1429.9	780.8	800.3
27851.2	65°	19325.5	7334.9	800.3	878.4	1395.7	1249.3	1586.1	1449.4	854.0	805.2
27167.9	67°	18432.4	6319.8	815.0	834.5	1298.1	1185.9	1669.0	1522.6	990.7	966.3
26811.7	67.5°	18178.7	6051.4	810.1	810.1	1264.0	1166.4	1688.5	1522.6	1010.2	1000.4
23664.0	70°	16021.6	4904.6	829.6	800.3	1117.6	1107.8	1795.9	1605.6	1161.5	1171.2
17383.2	72.5°	12195.6	3718.7	824.7	800.3	971.2	1059.0	1810.5	1659.3	1264.0	1171.2
9735.9	75°	6929.8	2225.4	727.1	697.9	766.2	922.4	1693.4	1581.2	1229.8	1049.2
3889.5	77.5°	2864.7	1146.8	668.6	629.5	634.4	751.5	1410.4	1473.8	1171.2	893.1
1298.1	80°	1068.8	688.1	536.8	502.7	488.0	551.5	1005.3	1176.1	1000.4	732.0
571.0	82.5°	556.3	429.5	366.0	366.0	331.9	351.4	541.7	780.8	756.4	502.7
229.4	85°	283.1	244.0	209.8	205.0	185.4	165.9	273.3	463.6	434.3	278.2
102.5	87.5°	151.3	136.6	87.8	83.0	68.3	43.9	48.8	92.7	151.3	122.0
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>
6476.0
7154.3
7393.5
6915.2
6075.8
5251.1
4299.4
3626.0
3211.2
2986.7
2786.6
2537.7
2220.5
1747.1
1249.3
829.6
502.7
405.1
536.8
678.3
746.7
575.9
761.3
722.3
658.8
810.1
790.6
951.6
980.9
1083.4
1039.5
937.0
844.3
668.6
395.3
229.4
87.8
0.0

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