

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: P477909

Luminaire Tested: **IFLD-L-SA7B-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477909
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

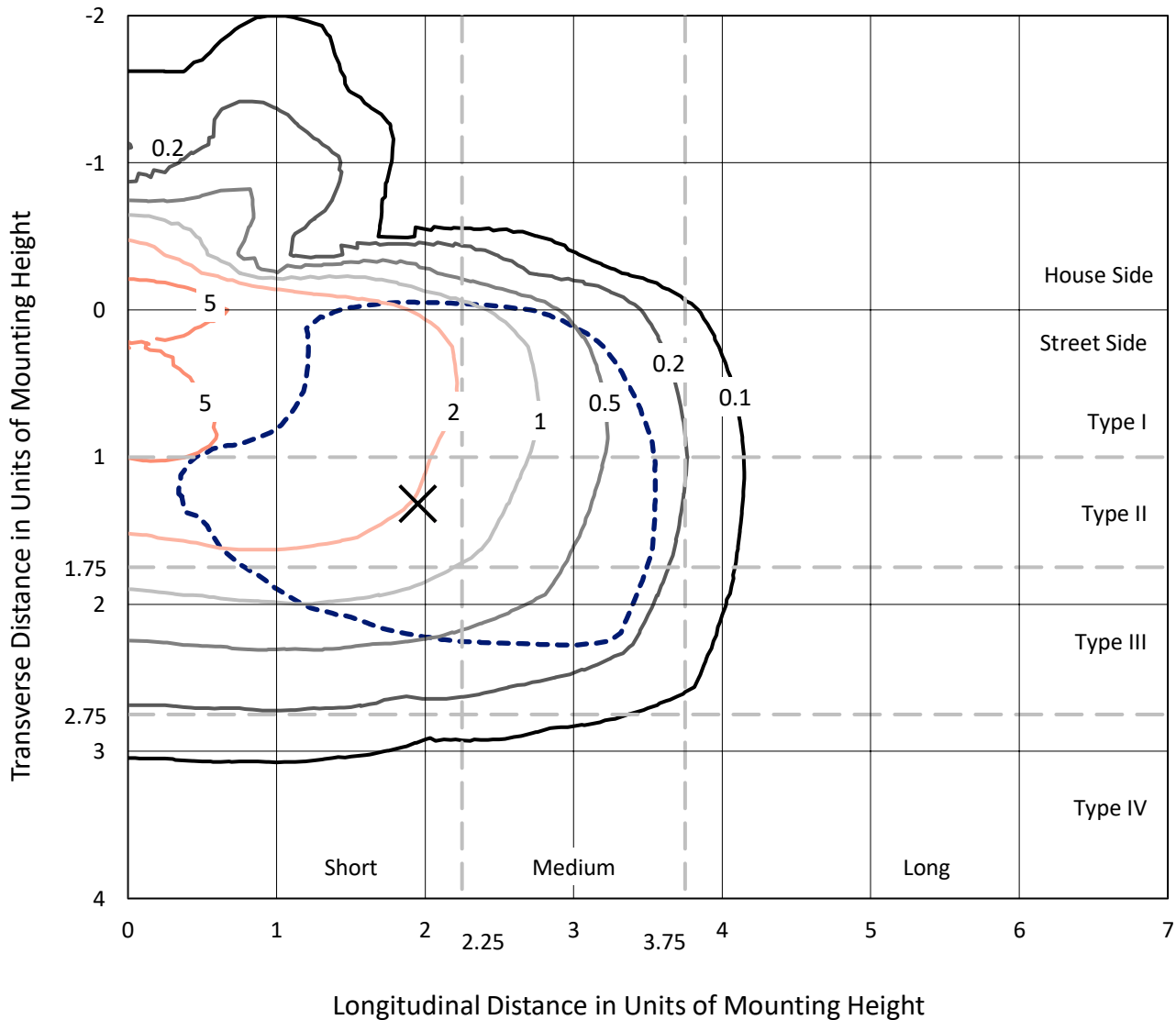
Lumens per Lamp: N/A
Luminaire Lumens: 25715 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

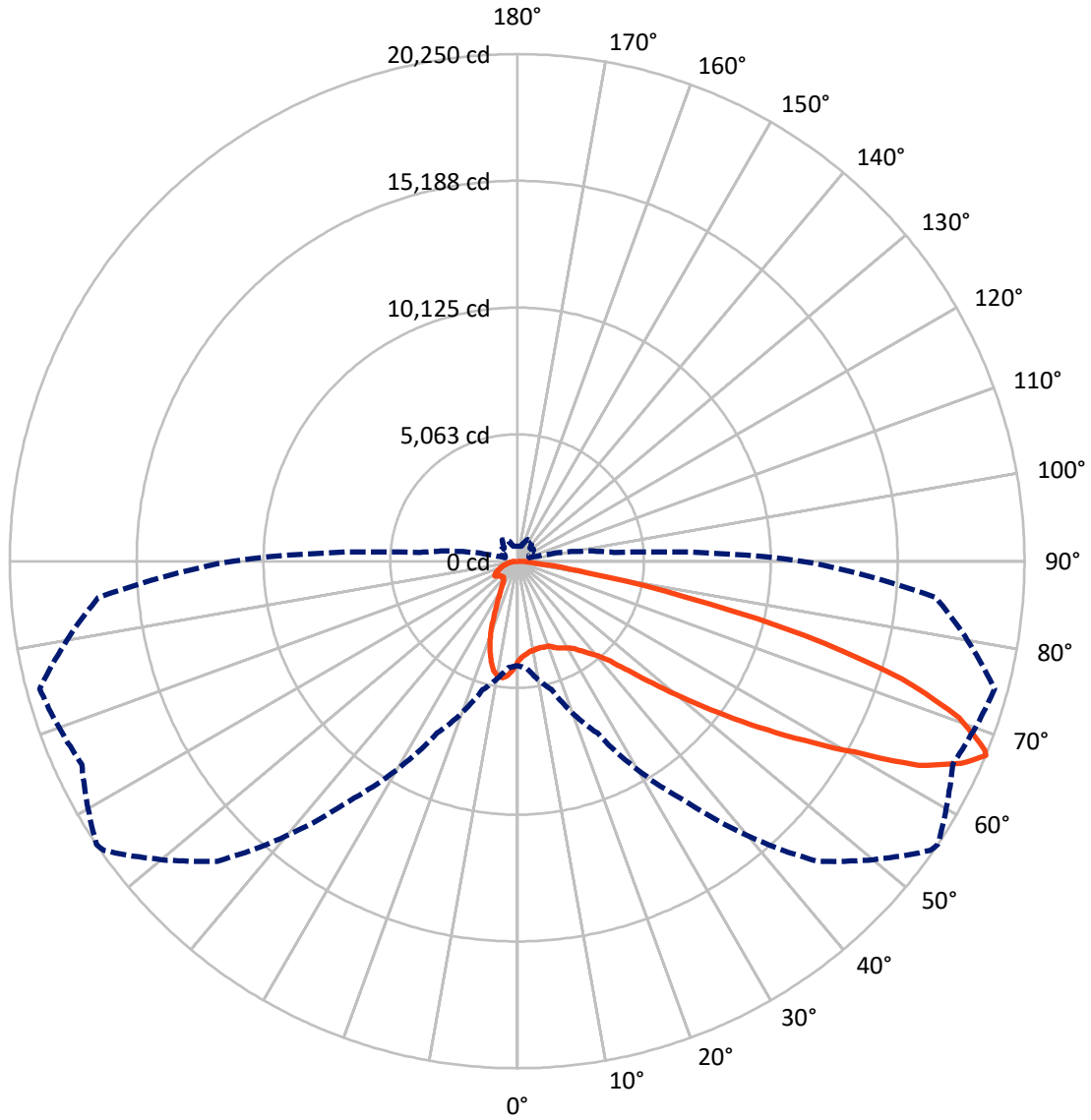
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	4071.0	0.0	4071.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	21644.1	0.0	21644.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	25715.0	0.0	25715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	1.5
10°-20°	1051.6	4.1
20°-30°	1649.2	6.4
30°-40°	2354.3	9.2
40°-50°	3553.3	13.8
50°-60°	5656.2	22.0
60°-70°	7231.0	28.1
70°-80°	3525.6	13.7
80°-90°	308.4	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°	25715.0	100.0
0°-180°	25715.0	100.0

Coefficient of Utilization

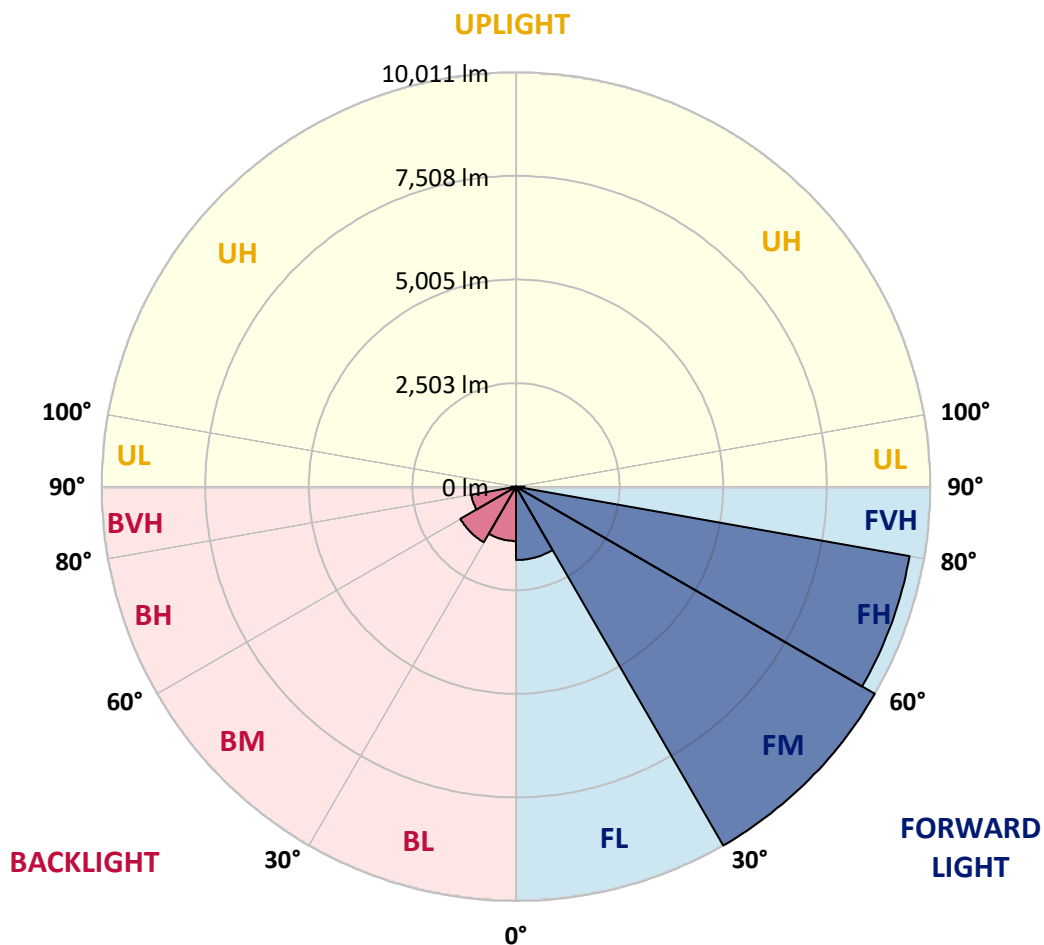


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.1	6.9			
FM (30°-60°)	10010.6	38.9			
FH (60°-80°)	9656.6	37.6			G4/12000
FVH (80°-90°)	204.8	0.8			G2/225
BL (0°-30°)	1314.2	5.1	B3/2500		
BM (30°-60°)	1553.1	6.0	B2/2500		
BH (60°-80°)	1100.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.6	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2
2.5°	3675.5	3660.5	3678.6	3660.5	3741.9	3790.1	3805.2	3826.3	3901.7	3974.0
5°	3521.8	3455.4	3527.8	3551.9	3557.9	3639.4	3723.8	3738.9	3778.1	3895.7
7.5°	3265.5	3340.9	3313.7	3386.1	3461.5	3542.9	3681.6	3642.4	3787.1	3898.7
10°	3211.2	3217.2	3247.4	3274.5	3340.9	3446.4	3639.4	3615.2	3763.0	4001.2
12.5°	3265.5	3265.5	3256.4	3235.3	3310.7	3413.2	3567.0	3579.1	3811.2	4031.3
15°	3455.4	3491.6	3395.1	3410.2	3380.1	3413.2	3548.9	3576.0	3829.3	4055.5
17.5°	3919.8	3907.7	3793.1	3633.3	3500.7	3479.6	3573.0	3603.2	3811.2	4124.8
20°	4372.1	4347.9	4148.9	3983.1	3720.8	3597.1	3612.2	3615.2	3841.4	4170.0
22.5°	4875.6	4938.9	4721.8	4384.1	4058.5	3750.9	3690.6	3738.9	3910.7	4194.2
25°	5665.6	5529.9	5343.0	4899.7	4375.1	3989.1	3820.3	3844.4	3977.1	4254.5
27.5°	6235.5	6181.2	5888.7	5529.9	4818.3	4176.1	3889.6	3934.9	4097.7	4251.4
30°	6784.2	6784.2	6606.3	6069.6	5285.7	4489.7	4037.4	4016.3	4040.4	4245.4
32.5°	7426.5	7339.0	7082.7	6726.9	5873.6	4776.1	4155.0	4161.0	4161.0	4357.0
35°	7764.2	7905.9	7734.0	7155.1	6322.9	5252.5	4438.4	4393.2	4360.0	4480.6
37.5°	8258.7	8343.1	8162.2	7821.5	6880.7	5638.4	4688.7	4652.5	4459.5	4577.1
40°	8557.2	8542.1	8536.1	8379.3	7619.4	6093.7	5056.5	4963.0	4703.7	4917.8
42.5°	8726.0	8695.9	9066.7	8970.3	8316.0	6763.1	5517.8	5466.6	5180.1	5523.9
45°	8916.0	9139.1	9443.6	9715.0	9127.0	7703.9	6298.8	6226.4	5970.1	6407.3
47.5°	9081.8	9356.2	9745.2	10034.6	9859.7	8726.0	7263.6	7281.7	7112.9	7562.2
50°	9359.2	9386.4	9914.0	10499.0	10634.7	9669.8	8560.2	8530.0	8454.7	9084.8
52.5°	9274.8	9356.2	10022.6	10770.3	10993.5	10667.8	9953.2	10043.7	9944.2	10737.2
55°	7899.9	8144.1	9956.2	11056.8	11843.8	11795.5	11744.2	11683.9	11677.9	12594.5
57.5°	7275.7	7474.7	8771.3	11373.4	12754.3	13110.1	13441.8	13508.1	13505.1	14611.7
60°	6865.6	7070.7	8291.8	11201.5	13529.3	14831.8	15468.0	15477.1	15459.0	16767.6
62.5°	6063.6	6262.6	7462.6	10260.8	13743.3	16420.8	17838.0	17955.6	17126.4	18625.0
65°	5098.7	5261.5	6319.9	8822.5	13173.5	17430.9	19620.0	19481.3	18531.5	19686.3
67°	4170.0	4278.6	5309.8	7574.2	11683.9	16945.5	20135.6	20250.2	19179.8	19731.5
67.5°	3904.7	4004.2	4978.1	7149.1	11117.1	16577.6	20153.7	20135.6	19191.8	19740.6
70°	2710.7	2752.9	3392.1	4917.8	8189.3	14005.7	18682.3	18724.5	18386.8	18670.2
72.5°	1797.1	1860.4	2267.4	3099.6	4827.4	10191.4	15615.8	16068.1	15854.0	15308.2
75°	1157.8	1194.0	1483.5	1845.3	2376.0	5804.3	11536.2	11837.7	11346.2	9467.8
77.5°	648.3	687.5	895.5	1121.7	1157.8	2415.2	6479.7	6853.6	5807.3	4022.3
80°	404.0	455.3	675.4	666.4	551.8	886.5	2671.5	2861.4	2321.7	1384.0
82.5°	304.5	343.7	521.6	467.4	310.6	395.0	1001.1	1073.4	850.3	533.7
85°	208.0	262.3	376.9	289.5	162.8	190.0	398.0	428.2	389.0	259.3
87.5°	75.4	111.6	196.0	144.7	72.4	57.3	129.7	144.7	138.7	117.6
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°
4001.2	0°	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2
4037.4	2.5°	4094.7	4136.9	4158.0	4281.6	4332.9	4323.8	4335.9	4354.0	4372.1	4396.2
4088.6	5°	4127.8	4257.5	4326.8	4471.6	4568.0	4525.8	4580.1	4565.0	4543.9	4540.9
4182.1	7.5°	4236.4	4402.2	4610.3	4649.5	4691.7	4586.1	4495.7	4372.1	4341.9	4236.4
4260.5	10°	4429.3	4565.0	4818.3	4833.4	4646.4	4375.1	4173.1	3916.8	3913.7	3760.0
4381.1	12.5°	4613.3	4767.0	4972.1	4884.6	4438.4	4067.5	3738.9	3458.4	3340.9	3262.5
4453.5	15°	4727.9	4981.1	5089.7	4712.8	4073.6	3573.0	3147.9	2846.4	2725.8	2668.5
4543.9	17.5°	4833.4	5186.2	5137.9	4411.3	3624.3	3063.5	2556.9	2294.6	2261.4	2219.2
4688.7	20°	4978.1	5261.5	4966.1	4019.3	3114.7	2406.1	2083.5	1956.9	1987.0	2005.1
4703.7	22.5°	5113.8	5300.7	4749.0	3591.1	2460.4	1905.6	1745.8	1772.9	1818.2	1878.5
4739.9	25°	5174.1	5364.1	4456.5	3000.1	1872.4	1604.1	1567.9	1613.1	1688.5	1691.5
4791.2	27.5°	5213.3	5318.8	4103.7	2424.2	1480.5	1402.1	1456.3	1489.5	1498.6	1534.7
4899.7	30°	5282.7	5225.4	3657.5	1733.7	1242.3	1245.3	1314.6	1314.6	1314.6	1341.8
5008.3	32.5°	5403.3	5162.0	3135.8	1266.4	1070.4	1166.9	1148.8	1142.8	1130.7	1097.5
5147.0	35°	5478.6	4990.2	2475.5	937.7	961.9	1070.4	1064.4	970.9	814.1	735.7
5499.7	37.5°	5635.4	4902.7	1821.2	723.7	898.5	1022.2	989.0	762.8	591.0	515.6
5937.0	40°	5973.1	4845.4	1260.4	633.2	856.3	998.0	883.5	651.3	452.3	319.6
6612.4	42.5°	6386.2	4848.5	856.3	597.0	859.3	1049.3	850.3	557.8	319.6	256.3
7513.9	45°	6941.0	4803.2	588.0	597.0	913.6	1133.7	871.4	506.6	310.6	325.6
8644.6	47.5°	7538.0	4842.4	437.2	542.7	922.7	1136.7	796.0	497.5	298.5	376.9
9874.8	50°	8234.5	4881.6	361.8	500.5	925.7	1100.6	732.7	485.4	310.6	398.0
11285.9	52.5°	8952.2	5005.3	307.6	473.4	961.9	1085.5	732.7	503.5	310.6	346.7
13083.0	55°	10022.6	5321.8	443.2	591.0	1094.5	1185.0	901.5	705.6	434.2	446.3
14804.7	57.5°	11204.5	5647.5	494.5	621.1	1124.7	1067.4	970.9	777.9	458.3	461.3
16143.4	60°	11982.5	5659.6	491.5	606.1	1052.3	922.7	949.8	820.1	467.4	395.0
16972.6	62.5°	12293.0	5291.7	512.6	606.1	979.9	862.4	973.9	883.5	482.4	494.5
17207.8	65°	11940.2	4531.9	494.5	542.7	862.4	771.9	979.9	895.5	527.7	497.5
16785.7	67°	11388.5	3904.7	503.5	515.6	802.0	732.7	1031.2	940.7	612.1	597.0
16565.6	67.5°	11231.7	3738.9	500.5	500.5	780.9	720.6	1043.3	940.7	624.1	618.1
14620.8	70°	9898.9	3030.3	512.6	494.5	690.5	684.5	1109.6	992.0	717.6	723.7
10740.2	72.5°	7535.0	2297.6	509.6	494.5	600.0	654.3	1118.6	1025.2	780.9	723.7
6015.3	75°	4281.6	1374.9	449.3	431.2	473.4	569.9	1046.3	976.9	759.8	648.3
2403.1	77.5°	1769.9	708.6	413.1	389.0	392.0	464.3	871.4	910.6	723.7	551.8
802.0	80°	660.3	425.1	331.7	310.6	301.5	340.7	621.1	726.7	618.1	452.3
352.8	82.5°	343.7	265.3	226.1	226.1	205.0	217.1	334.7	482.4	467.4	310.6
141.7	85°	174.9	150.8	129.7	126.6	114.6	102.5	168.9	286.4	268.4	171.9
63.3	87.5°	93.5	84.4	54.3	51.3	42.2	27.1	30.2	57.3	93.5	75.4
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>
4001.2
4420.3
4568.0
4272.6
3753.9
3244.4
2656.4
2240.3
1984.0
1845.3
1721.7
1567.9
1371.9
1079.4
771.9
512.6
310.6
250.3
331.7
419.1
461.3
355.8
470.4
446.3
407.1
500.5
488.5
588.0
606.1
669.4
642.2
578.9
521.6
413.1
244.2
141.7
54.3
0.0

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