

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: P477916

Luminaire Tested: **IFLD-L-SA8D-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477916
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-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

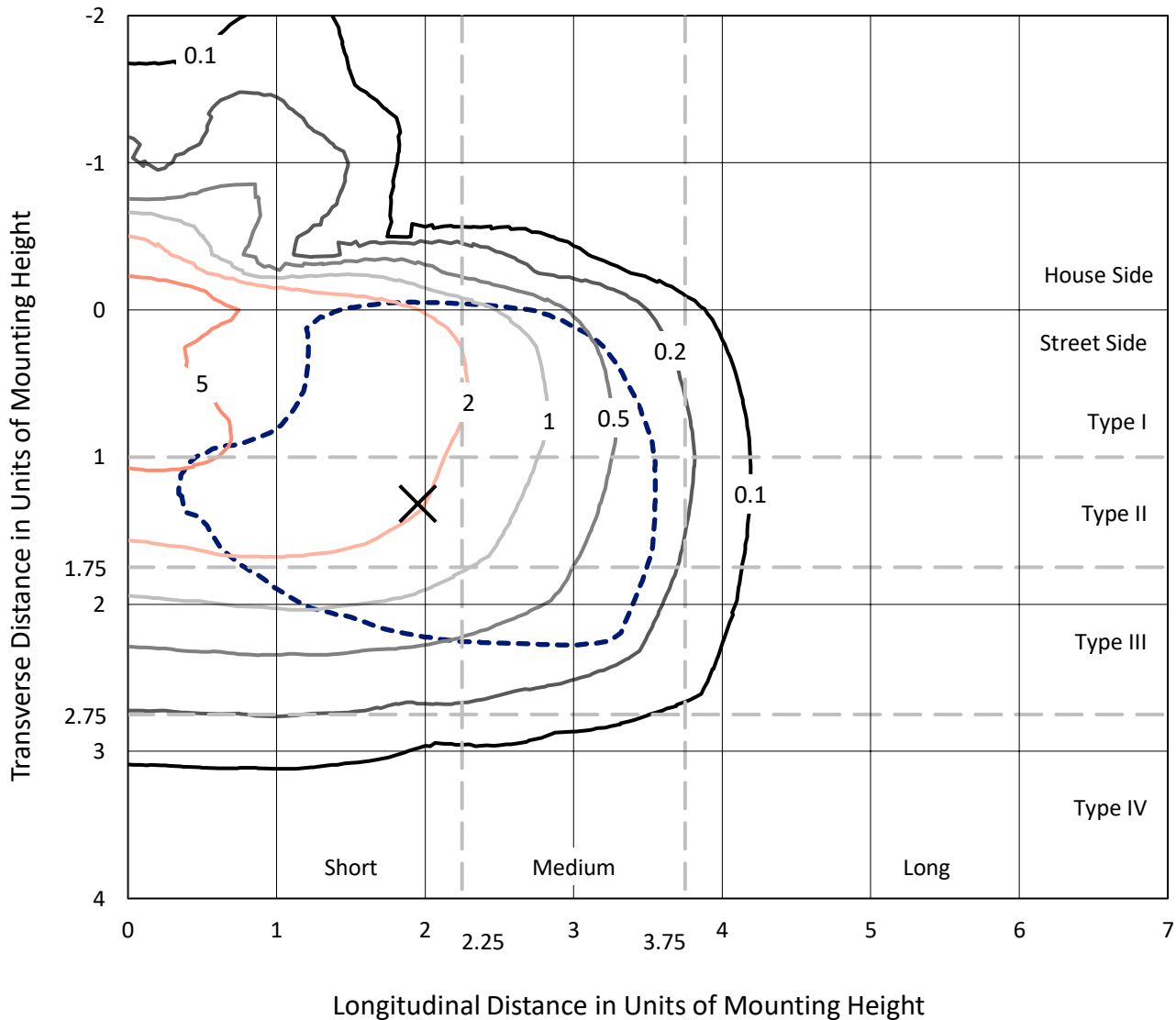
Lumens per Lamp: N/A
Luminaire Lumens: 40254.6 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

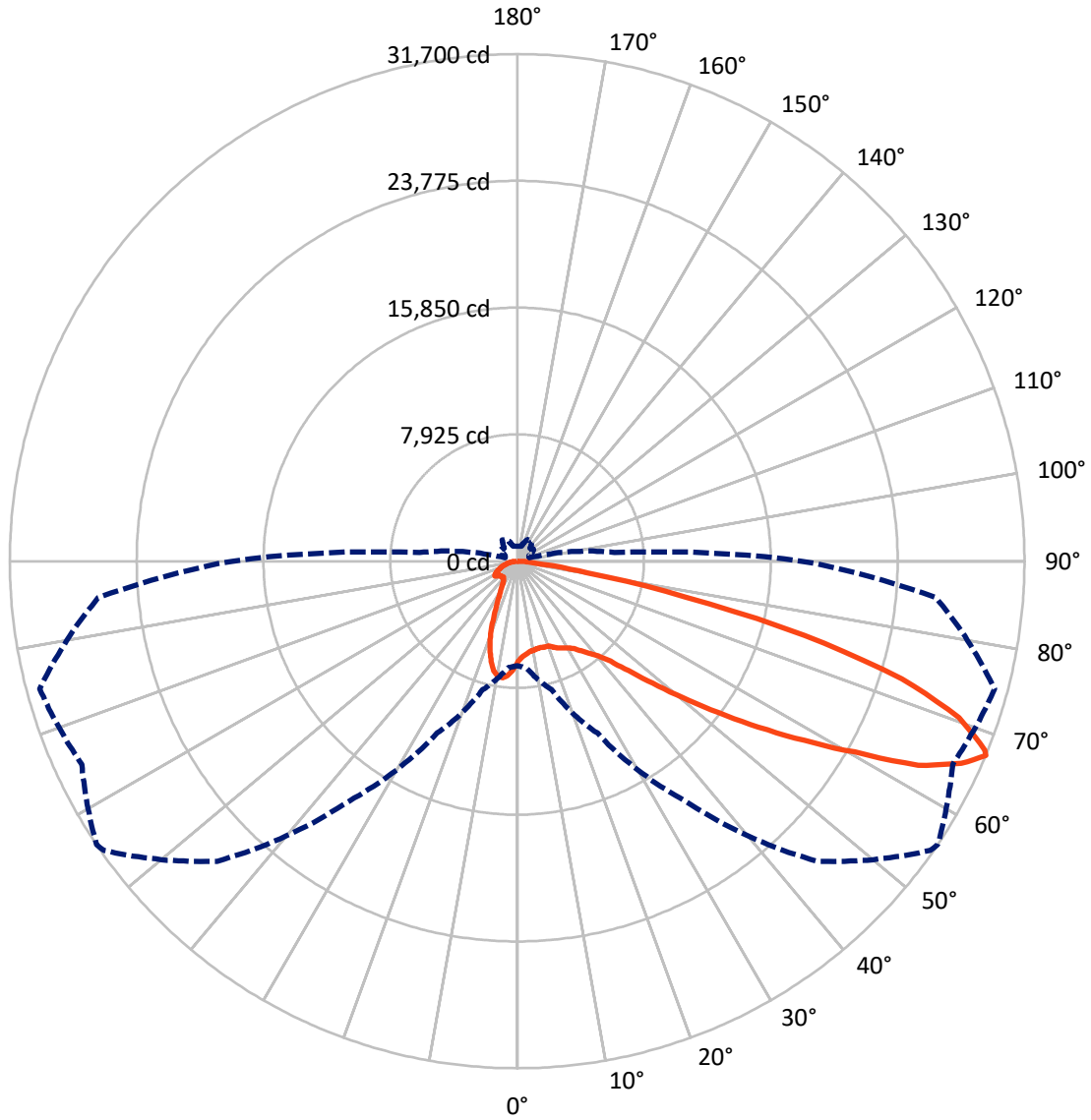
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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	6372.7	0.0	6372.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	33881.9	0.0	33881.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	40254.6	0.0	40254.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	1.5
10°-20°	1646.2	4.1
20°-30°	2581.7	6.4
30°-40°	3685.4	9.2
40°-50°	5562.3	13.8
50°-60°	8854.3	22.0
60°-70°	11319.5	28.1
70°-80°	5519.0	13.7
80°-90°	482.8	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°	40254.6	100.0
0°-180°	40254.6	100.0

Coefficient of Utilization

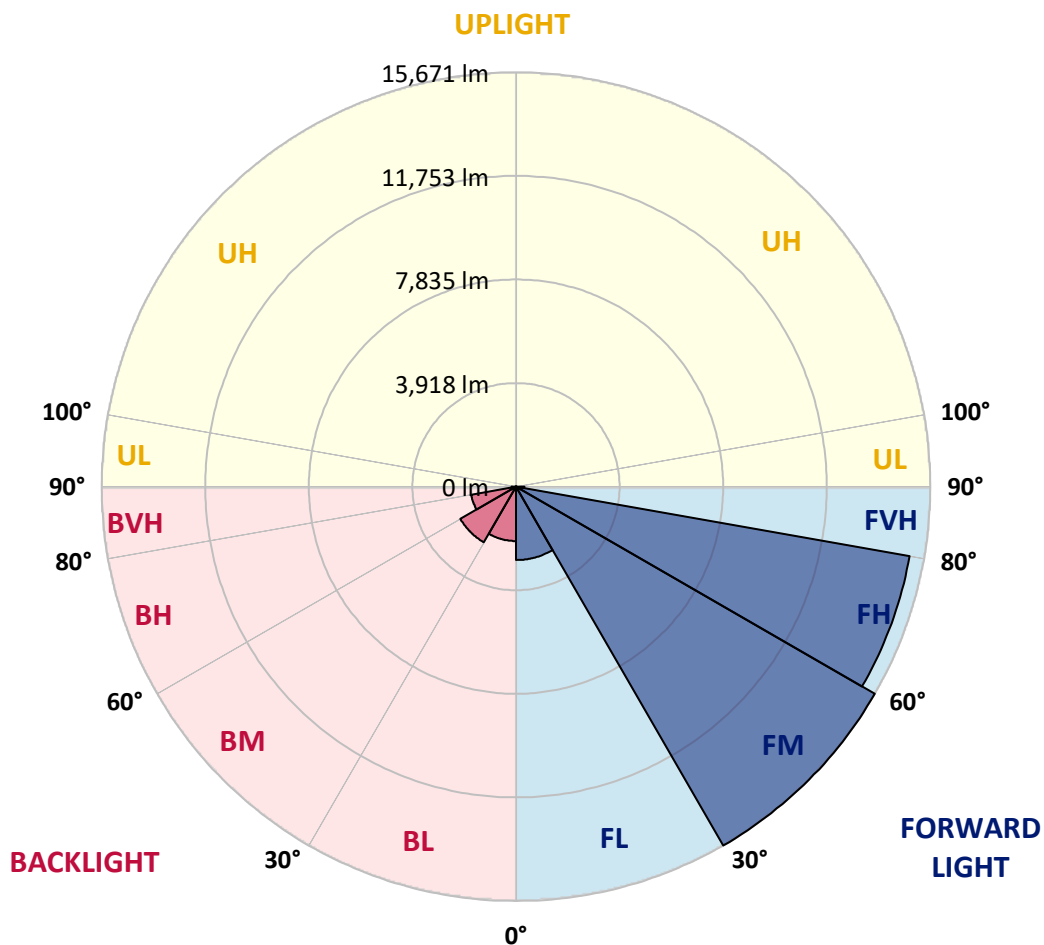


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.0	6.9			
FM (30°-60°)	15670.8	38.9			
FH (60°-80°)	15116.5	37.6			G5
FVH (80°-90°)	320.6	0.8			G3/500
BL (0°-30°)	2057.3	5.1	B3/2500		
BM (30°-60°)	2431.3	6.0	B2/2500		
BH (60°-80°)	1722.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	162.2	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°	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5
2.5°	5753.7	5730.1	5758.5	5730.1	5857.6	5933.1	5956.7	5989.7	6107.8	6221.0
5°	5513.0	5409.2	5522.5	5560.2	5569.7	5697.1	5829.3	5852.9	5914.2	6098.3
7.5°	5111.8	5229.8	5187.3	5300.6	5418.6	5546.1	5763.2	5701.8	5928.4	6103.0
10°	5026.9	5036.3	5083.5	5126.0	5229.8	5395.0	5697.1	5659.3	5890.6	6263.5
12.5°	5111.8	5111.8	5097.7	5064.6	5182.6	5343.1	5583.8	5602.7	5966.1	6310.7
15°	5409.2	5465.8	5314.8	5338.4	5291.2	5343.1	5555.5	5598.0	5994.5	6348.5
17.5°	6136.1	6117.2	5937.8	5687.7	5480.0	5446.9	5593.3	5640.5	5966.1	6457.0
20°	6844.1	6806.3	6494.8	6235.2	5824.5	5631.0	5654.6	5659.3	6013.3	6527.8
22.5°	7632.3	7731.4	7391.6	6863.0	6353.2	5871.7	5777.3	5852.9	6121.9	6565.6
25°	8869.0	8656.6	8363.9	7670.1	6848.8	6244.6	5980.3	6018.1	6225.8	6660.0
27.5°	9761.1	9676.1	9218.3	8656.6	7542.6	6537.3	6088.9	6159.7	6414.6	6655.3
30°	10620.1	10620.1	10341.6	9501.5	8274.3	7028.2	6320.2	6287.1	6324.9	6645.8
32.5°	11625.5	11488.6	11087.4	10530.4	9194.7	7476.6	6504.2	6513.7	6513.7	6820.5
35°	12154.1	12376.0	12106.9	11200.7	9898.0	8222.3	6947.9	6877.1	6825.2	7014.0
37.5°	12928.2	13060.4	12777.2	12243.8	10771.2	8826.5	7339.7	7283.0	6981.0	7165.0
40°	13395.5	13371.9	13362.5	13117.0	11927.6	9539.2	7915.5	7769.2	7363.3	7698.4
42.5°	13659.8	13612.6	14193.2	14042.2	13017.9	10587.1	8637.7	8557.5	8109.1	8647.1
45°	13957.2	14306.5	14783.2	15208.0	14287.6	12059.7	9860.2	9746.9	9345.7	10030.1
47.5°	14216.8	14646.3	15255.2	15708.3	15434.6	13659.8	11370.6	11398.9	11134.6	11837.9
50°	14651.0	14693.5	15519.5	16435.2	16647.6	15137.2	13400.2	13353.0	13235.0	14221.5
52.5°	14518.9	14646.3	15689.5	16860.0	17209.3	16699.6	15580.9	15722.5	15566.7	16808.1
55°	12366.5	12748.9	15585.6	17308.4	18540.4	18464.9	18384.6	18290.2	18280.8	19715.7
57.5°	11389.5	11701.0	13730.6	17804.0	19965.8	20522.8	21042.0	21145.8	21141.1	22873.4
60°	10747.6	11068.5	12980.2	17535.0	21178.9	23217.9	24213.9	24228.0	24199.7	26248.2
62.5°	9492.0	9803.6	11682.1	16062.3	21514.0	25705.4	27923.8	28107.9	26809.9	29155.8
65°	7981.6	8236.5	9893.2	13810.9	20621.9	27286.6	30713.4	30496.3	29009.5	30817.2
67°	6527.8	6697.8	8312.0	11856.8	18290.2	26526.7	31520.5	31699.9	30024.3	30888.0
67.5°	6112.5	6268.2	7792.8	11191.2	17402.8	25950.9	31548.8	31520.5	30043.1	30902.2
70°	4243.3	4309.4	5310.1	7698.4	12819.7	21924.7	29245.5	29311.5	28782.9	29226.6
72.5°	2813.2	2912.3	3549.5	4852.2	7556.8	15953.8	24445.2	25153.2	24818.0	23963.7
75°	1812.5	1869.1	2322.3	2888.7	3719.4	9086.1	18058.9	18530.9	17761.6	14821.0
77.5°	1014.8	1076.2	1401.9	1755.9	1812.5	3780.8	10143.4	10728.7	9090.8	6296.6
80°	632.5	712.7	1057.3	1043.1	863.8	1387.7	4182.0	4479.3	3634.4	2166.5
82.5°	476.7	538.1	816.6	731.6	486.2	618.3	1567.1	1680.3	1331.1	835.4
85°	325.7	410.6	590.0	453.1	254.9	297.4	623.0	670.2	608.9	405.9
87.5°	118.0	174.6	306.8	226.6	113.3	89.7	203.0	226.6	217.1	184.1
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°
6263.5	0°	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5	6263.5
6320.2	2.5°	6409.8	6475.9	6509.0	6702.5	6782.7	6768.6	6787.4	6815.8	6844.1	6881.8
6400.4	5°	6461.8	6664.7	6773.3	6999.8	7150.9	7084.8	7169.8	7146.2	7113.1	7108.4
6546.7	7.5°	6631.7	6891.3	7217.0	7278.3	7344.4	7179.2	7037.6	6844.1	6796.9	6631.7
6669.4	10°	6933.8	7146.2	7542.6	7566.2	7273.6	6848.8	6532.6	6131.4	6126.6	5885.9
6858.2	12.5°	7221.7	7462.4	7783.4	7646.5	6947.9	6367.4	5852.9	5413.9	5229.8	5107.1
6971.5	15°	7401.0	7797.5	7967.5	7377.4	6376.8	5593.3	4927.7	4455.7	4266.9	4177.2
7113.1	17.5°	7566.2	8118.5	8043.0	6905.4	5673.5	4795.6	4002.6	3592.0	3540.0	3474.0
7339.7	20°	7792.8	8236.5	7773.9	6291.8	4875.8	3766.6	3261.6	3063.3	3110.5	3138.8
7363.3	22.5°	8005.2	8297.9	7434.1	5621.6	3851.6	2983.1	2732.9	2775.4	2846.2	2940.6
7419.9	25°	8099.6	8397.0	6976.2	4696.5	2931.2	2511.1	2454.4	2525.2	2643.2	2648.0
7500.2	27.5°	8161.0	8326.2	6424.0	3794.9	2317.5	2194.8	2279.8	2331.7	2345.9	2402.5
7670.1	30°	8269.5	8179.9	5725.4	2714.0	1944.7	1949.4	2057.9	2057.9	2057.9	2100.4
7840.0	32.5°	8458.3	8080.7	4908.9	1982.4	1675.6	1826.7	1798.3	1788.9	1770.0	1718.1
8057.1	35°	8576.3	7811.7	3875.2	1467.9	1505.7	1675.6	1666.2	1519.9	1274.4	1151.7
8609.4	37.5°	8821.8	7674.8	2850.9	1132.8	1406.6	1600.1	1548.2	1194.2	925.1	807.1
9293.8	40°	9350.4	7585.1	1973.0	991.2	1340.5	1562.3	1383.0	1019.5	708.0	500.3
10351.1	42.5°	9997.1	7589.8	1340.5	934.6	1345.2	1642.6	1331.1	873.2	500.3	401.2
11762.4	45°	10865.6	7519.0	920.4	934.6	1430.2	1774.7	1364.1	793.0	486.2	509.8
13532.4	47.5°	11800.1	7580.4	684.4	849.6	1444.3	1779.5	1246.1	778.8	467.3	590.0
15458.2	50°	12890.5	7641.8	566.4	783.5	1449.1	1722.8	1147.0	759.9	486.2	623.0
17667.2	52.5°	14013.8	7835.3	481.4	741.0	1505.7	1699.2	1147.0	788.2	486.2	542.8
20480.3	55°	15689.5	8330.9	693.8	925.1	1713.4	1855.0	1411.3	1104.5	679.7	698.6
23175.5	57.5°	17539.7	8840.7	774.1	972.3	1760.6	1670.9	1519.9	1217.8	717.4	722.2
25271.2	60°	18757.5	8859.5	769.4	948.7	1647.3	1444.3	1486.8	1283.9	731.6	618.3
26569.2	62.5°	19243.7	8283.7	802.4	948.7	1534.0	1349.9	1524.6	1383.0	755.2	774.1
26937.4	65°	18691.4	7094.2	774.1	849.6	1349.9	1208.3	1534.0	1401.9	826.0	778.8
26276.5	67°	17827.6	6112.5	788.2	807.1	1255.5	1147.0	1614.3	1472.7	958.2	934.6
25932.0	67.5°	17582.2	5852.9	783.5	783.5	1222.5	1128.1	1633.1	1472.7	977.1	967.6
22887.5	70°	15495.9	4743.7	802.4	774.1	1080.9	1071.5	1737.0	1552.9	1123.4	1132.8
16812.8	72.5°	11795.4	3596.7	797.7	774.1	939.3	1024.3	1751.1	1604.8	1222.5	1132.8
9416.5	75°	6702.5	2152.3	703.3	675.0	741.0	892.1	1637.9	1529.3	1189.5	1014.8
3761.9	77.5°	2770.7	1109.2	646.6	608.9	613.6	726.9	1364.1	1425.5	1132.8	863.8
1255.5	80°	1033.7	665.5	519.2	486.2	472.0	533.4	972.3	1137.5	967.6	708.0
552.2	82.5°	538.1	415.4	354.0	354.0	321.0	339.8	523.9	755.2	731.6	486.2
221.8	85°	273.8	236.0	203.0	198.2	179.4	160.5	264.3	448.4	420.1	269.0
99.1	87.5°	146.3	132.2	85.0	80.2	66.1	42.5	47.2	89.7	146.3	118.0
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>
6263.5
6919.6
7150.9
6688.3
5876.5
5078.8
4158.4
3507.0
3105.8
2888.7
2695.2
2454.4
2147.6
1689.8
1208.3
802.4
486.2
391.8
519.2
656.1
722.2
557.0
736.3
698.6
637.2
783.5
764.6
920.4
948.7
1047.9
1005.4
906.3
816.6
646.6
382.3
221.8
85.0
0.0

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