

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: P477316

Luminaire Tested: **IFLD-S-SA6D-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477316
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

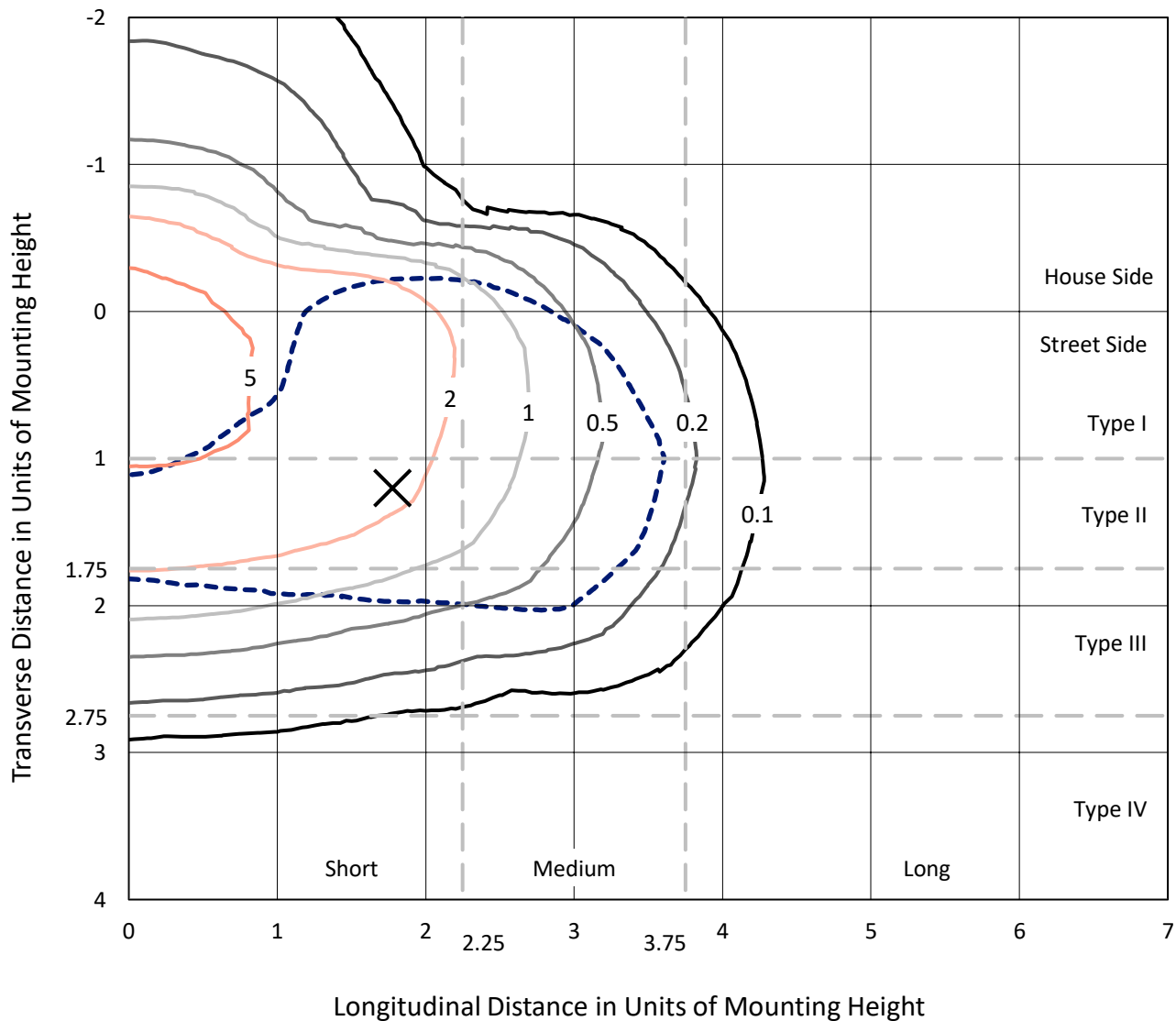
Lumens per Lamp: N/A
Luminaire Lumens: 42405.4 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

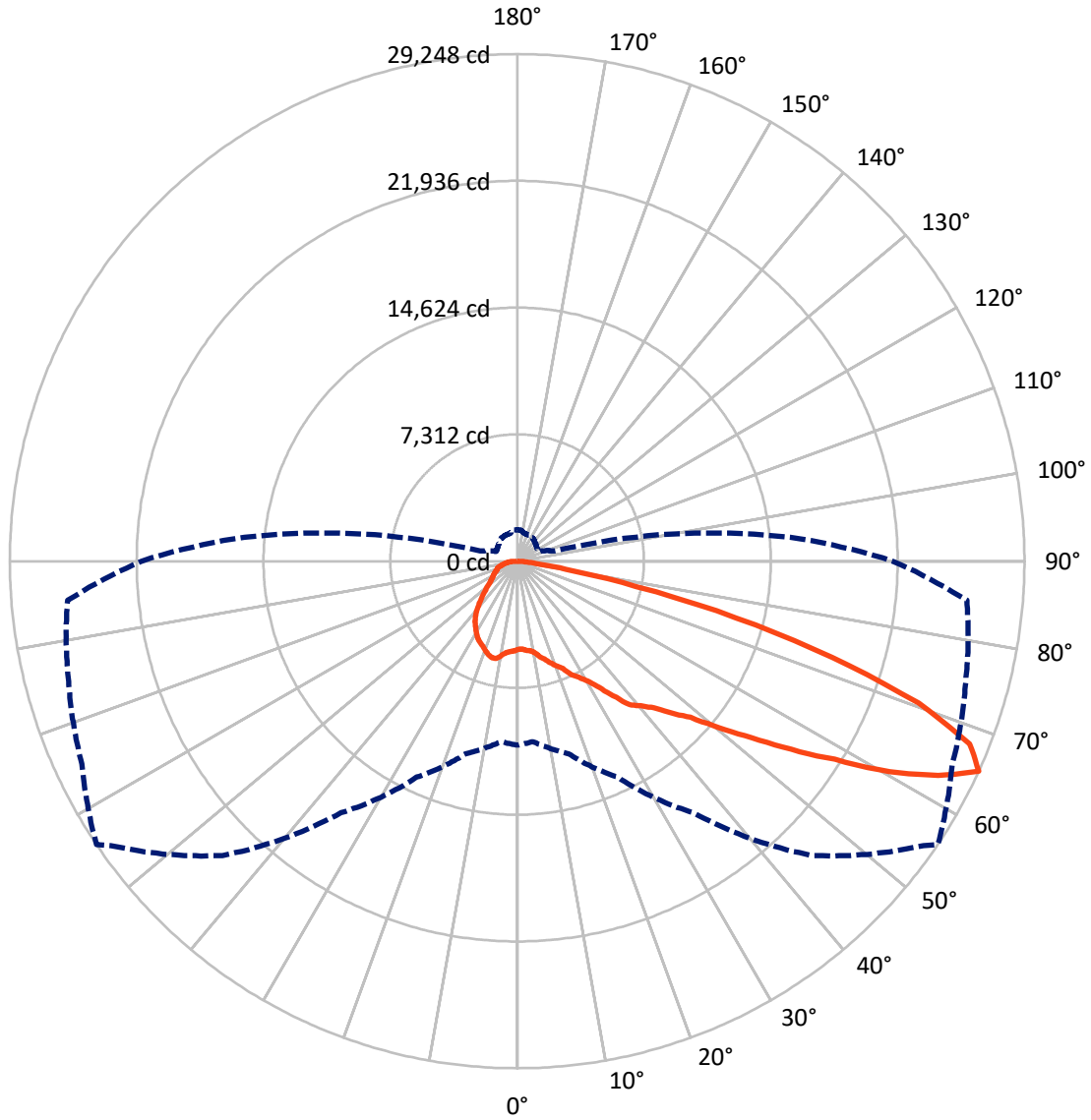
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	9510.2	0.0	9510.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	32895.2	0.0	32895.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	42405.4	0.0	42405.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.4	1.2
10°-20°	1637.8	3.9
20°-30°	2916.2	6.9
30°-40°	4367.0	10.3
40°-50°	6470.2	15.3
50°-60°	9969.7	23.5
60°-70°	11286.9	26.6
70°-80°	4684.2	11.0
80°-90°	569.1	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°	42405.4	100.0
0°-180°	42405.4	100.0

Coefficient of Utilization

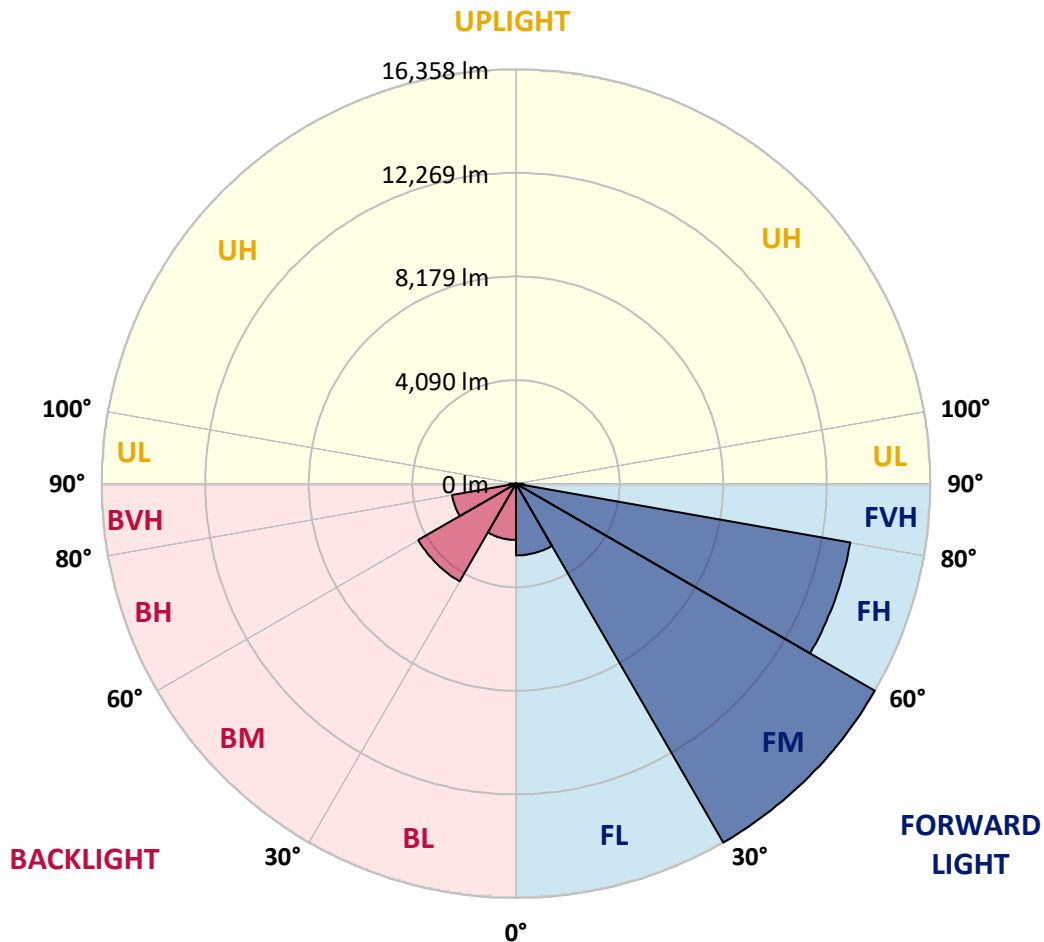


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2833.9	6.7			
FM (30°-60°)	16358.1	38.6			
FH (60°-80°)	13403.0	31.6			G5
FVH (80°-90°)	300.2	0.7			G3/500
BL (0°-30°)	2224.5	5.2	B3/2500		
BM (30°-60°)	4448.7	10.5	B3/5000		
BH (60°-80°)	2568.1	6.1	B4/5000		G4/5000
BVH (80°-90°)	268.9	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°	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9
2.5°	4956.7	4983.4	4965.6	5018.9	5063.2	5063.2	5098.7	5072.1	5107.6	5156.4
5°	5120.9	5014.4	5072.1	5098.7	5085.4	5107.6	5072.1	5160.9	5103.2	5196.4
7.5°	5160.9	5200.8	5249.6	5205.2	5245.2	5223.0	5227.4	5214.1	5183.0	5258.5
10°	5453.7	5396.0	5507.0	5440.4	5431.5	5422.7	5404.9	5338.4	5413.8	5418.2
12.5°	5791.0	5737.7	5733.3	5680.0	5751.1	5622.4	5649.0	5613.5	5626.8	5644.5
15°	6035.1	6012.9	6114.9	6052.8	5959.6	5901.9	5964.1	5866.4	5915.2	5906.4
17.5°	6518.7	6514.3	6438.9	6336.8	6283.6	6199.2	6185.9	6146.0	6181.5	6163.7
20°	6856.0	6904.8	6918.1	6798.3	6594.2	6501.0	6478.8	6447.7	6487.7	6474.4
22.5°	7370.8	7295.3	7353.0	7144.4	7069.0	6847.1	6767.2	6722.9	6913.7	6864.9
25°	7699.1	7779.0	7721.3	7650.3	7481.7	7206.6	7148.9	7246.5	7321.9	7268.7
27.5°	8440.2	8360.3	8307.1	8094.1	7983.1	7694.7	7628.1	7592.6	7610.4	7641.4
30°	9003.8	9048.1	8928.3	8777.5	8497.9	8205.0	8049.7	8018.6	7956.5	7903.3
32.5°	9807.0	9740.4	9669.4	9571.8	9332.1	8946.1	8795.2	8679.8	8493.4	8244.9
35°	10193.0	10383.8	10330.6	10068.8	9886.8	9740.4	9696.0	9518.5	9363.2	8972.7
37.5°	10836.5	10916.3	10840.9	10756.6	10672.3	10517.0	10463.7	10512.5	10206.3	9562.9
40°	11253.6	11422.2	11577.5	11342.3	11324.6	11355.7	11027.3	10969.6	10339.5	10002.2
42.5°	12105.6	12176.6	12207.7	12198.8	12300.9	12300.9	11675.2	11550.9	11102.7	10827.6
45°	13232.7	13290.4	13401.4	13481.2	13365.9	13423.6	12531.6	12482.8	12083.4	12030.2
47.5°	14209.0	14346.6	14595.1	14830.3	14981.1	14785.9	13809.6	13463.5	13361.4	13680.9
50°	15061.0	14896.8	15478.1	15717.8	16379.0	16702.9	15220.8	15083.2	14919.0	15531.4
52.5°	15145.3	15367.2	16188.1	16667.4	18029.7	18628.8	16951.4	16893.7	16694.0	17399.6
55°	15748.8	15722.2	16547.6	17586.0	19205.7	20213.0	19205.7	19170.2	18735.3	19405.4
57.5°	15646.8	15917.5	16569.8	18020.8	20266.2	21912.6	21819.4	21575.3	20967.4	21513.2
60°	15300.6	15371.6	16166.0	18007.5	20883.1	23656.5	24641.7	24690.5	23448.0	23882.8
62.5°	13339.2	13503.4	14510.8	16592.0	20443.7	24859.1	27397.4	27224.3	26230.3	25733.3
65°	10610.2	10446.0	11493.2	13743.1	17710.2	24007.1	28604.4	29247.8	27685.8	26776.1
67.5°	6505.4	6465.5	7472.8	9456.4	13250.5	20430.4	27641.4	28142.9	27282.0	26554.2
70°	3350.3	3248.3	3878.4	5276.2	8329.3	14990.0	24055.9	24548.5	25369.4	23816.3
72.5°	1562.0	1539.8	1877.1	2596.0	4242.3	8813.0	18628.8	18983.8	20714.4	20079.9
75°	918.6	931.9	1122.7	1357.9	2067.9	4153.5	12363.0	13050.8	14927.9	14470.8
77.5°	687.8	687.8	798.8	945.2	1207.0	1606.4	6101.6	7011.3	8728.6	7850.0
80°	505.9	514.8	612.4	710.0	838.7	829.8	2422.9	2840.0	4002.7	3421.3
82.5°	394.9	408.3	474.8	528.1	590.2	501.4	994.0	1069.4	1646.3	1309.1
85°	275.1	284.0	372.8	359.4	359.4	279.6	412.7	434.9	652.3	621.3
87.5°	66.6	75.4	181.9	199.7	150.9	84.3	128.7	146.4	235.2	270.7
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°
5089.9	0°	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9	5089.9
5178.6	2.5°	5112.0	5129.8	5205.2	5165.3	5187.5	5094.3	5169.7	5107.6	5160.9	5134.2
5218.5	5°	5254.0	5214.1	5258.5	5227.4	5227.4	5262.9	5316.2	5276.2	5356.1	5320.6
5249.6	7.5°	5311.7	5316.2	5342.8	5347.2	5325.0	5436.0	5440.4	5427.1	5502.5	5484.8
5462.6	10°	5453.7	5458.2	5507.0	5533.6	5511.4	5551.4	5507.0	5471.5	5467.0	5449.3
5631.2	12.5°	5680.0	5724.4	5715.5	5737.7	5742.2	5573.5	5471.5	5298.4	5276.2	5298.4
5879.7	15°	5888.6	5870.9	5879.7	5924.1	5737.7	5467.0	5285.1	5138.7	5147.5	5152.0
6203.7	17.5°	6137.1	6150.4	6163.7	5959.6	5617.9	5298.4	5138.7	5138.7	5094.3	5112.0
6430.0	20°	6421.1	6367.9	6252.5	5964.1	5409.4	5103.2	5054.4	5054.4	5001.1	4965.6
6674.1	22.5°	6643.0	6536.5	6363.4	5826.5	5223.0	5027.7	4907.9	4823.6	4761.5	4690.5
6944.7	25°	6785.0	6727.3	6390.1	5684.5	5085.4	4828.0	4650.5	4521.9	4442.0	4348.8
7157.7	27.5°	7002.4	6891.5	6465.5	5520.3	4934.5	4628.4	4353.2	4153.5	4002.7	3905.0
7481.7	30°	7295.3	7135.6	6412.2	5285.1	4703.8	4282.2	3958.3	3700.9	3527.8	3448.0
7787.9	32.5°	7534.9	7326.4	6367.9	5072.1	4446.4	3931.7	3501.2	3239.4	3141.8	3039.7
8302.6	35°	7992.0	7579.3	6336.8	4952.3	4215.7	3581.1	3128.5	2902.2	2777.9	2627.0
8608.8	37.5°	8342.6	8018.6	6261.4	4703.8	3918.3	3239.4	2844.5	2640.3	2454.0	2294.2
9318.8	40°	8892.8	8631.0	6265.8	4353.2	3567.8	2946.5	2622.6	2409.6	2174.4	2036.8
10370.5	42.5°	9926.8	9234.5	6292.4	4073.7	3172.8	2706.9	2422.9	2170.0	1934.8	1819.4
11568.7	45°	11195.9	10064.3	6128.2	3820.7	2769.0	2480.6	2183.3	1930.3	1779.5	1695.1
13197.2	47.5°	12655.9	10876.4	5906.4	3345.9	2431.8	2241.0	1961.4	1815.0	1704.0	1655.2
15296.2	50°	14288.9	12039.0	5844.2	2911.0	2170.0	2036.8	1854.9	1744.0	1668.5	1610.8
17661.4	52.5°	16392.3	13392.5	5720.0	2462.8	1943.6	1872.6	1815.0	1739.5	1673.0	1624.1
19866.9	55°	18402.5	14892.4	5586.9	2094.5	1783.9	1792.8	1823.8	1757.3	1699.6	1624.1
22338.6	57.5°	20665.6	16423.3	5094.3	1823.8	1664.1	1752.8	1815.0	1739.5	1681.8	1624.1
24868.0	60°	22063.4	17284.2	4131.3	1588.6	1557.6	1677.4	1761.7	1681.8	1619.7	1641.9
26030.6	62.5°	22631.4	16831.6	3115.2	1442.2	1482.1	1575.3	1677.4	1646.3	1602.0	1686.3
26017.3	65°	21664.1	15788.8	2227.6	1317.9	1380.1	1473.3	1602.0	1637.5	1650.8	1815.0
23896.1	67.5°	19276.7	13747.5	1637.5	1215.9	1273.6	1411.1	1655.2	1712.9	1704.0	1908.1
20053.2	70°	15424.9	10752.2	1278.0	1131.6	1233.6	1460.0	1730.6	1730.6	1668.5	1908.1
15296.2	72.5°	11222.5	7579.3	1100.5	1033.9	1131.6	1340.1	1721.8	1717.3	1637.5	1744.0
9740.4	75°	6793.9	4410.9	971.8	936.3	971.8	1149.3	1646.3	1619.7	1508.8	1499.9
4686.0	77.5°	3385.8	2218.8	794.3	829.8	847.6	962.9	1446.6	1486.6	1335.7	1300.2
1850.5	80°	1428.9	967.4	661.2	714.4	714.4	812.1	1202.6	1229.2	1109.4	1042.8
732.2	82.5°	652.3	554.7	563.6	621.3	581.3	630.1	954.1	985.1	900.8	789.9
310.6	85°	275.1	315.1	430.4	488.1	430.4	408.3	656.8	692.3	585.8	488.1
133.1	87.5°	124.3	173.1	270.7	355.0	217.4	190.8	350.6	363.9	292.9	217.4
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>
5089.9
5085.4
5271.8
5458.2
5449.3
5307.3
5214.1
5116.5
4912.4
4650.5
4366.5
3949.4
3492.3
3035.3
2613.7
2298.6
2050.1
1828.3
1712.9
1646.3
1619.7
1619.7
1619.7
1619.7
1624.1
1664.1
<i>1815.0</i>
1921.5
1868.2
1681.8
1482.1
1278.0
1020.6
772.1
492.6
204.1
0.0

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