

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: P477754

Luminaire Tested: **IFLD-L-SA7C-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477754
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

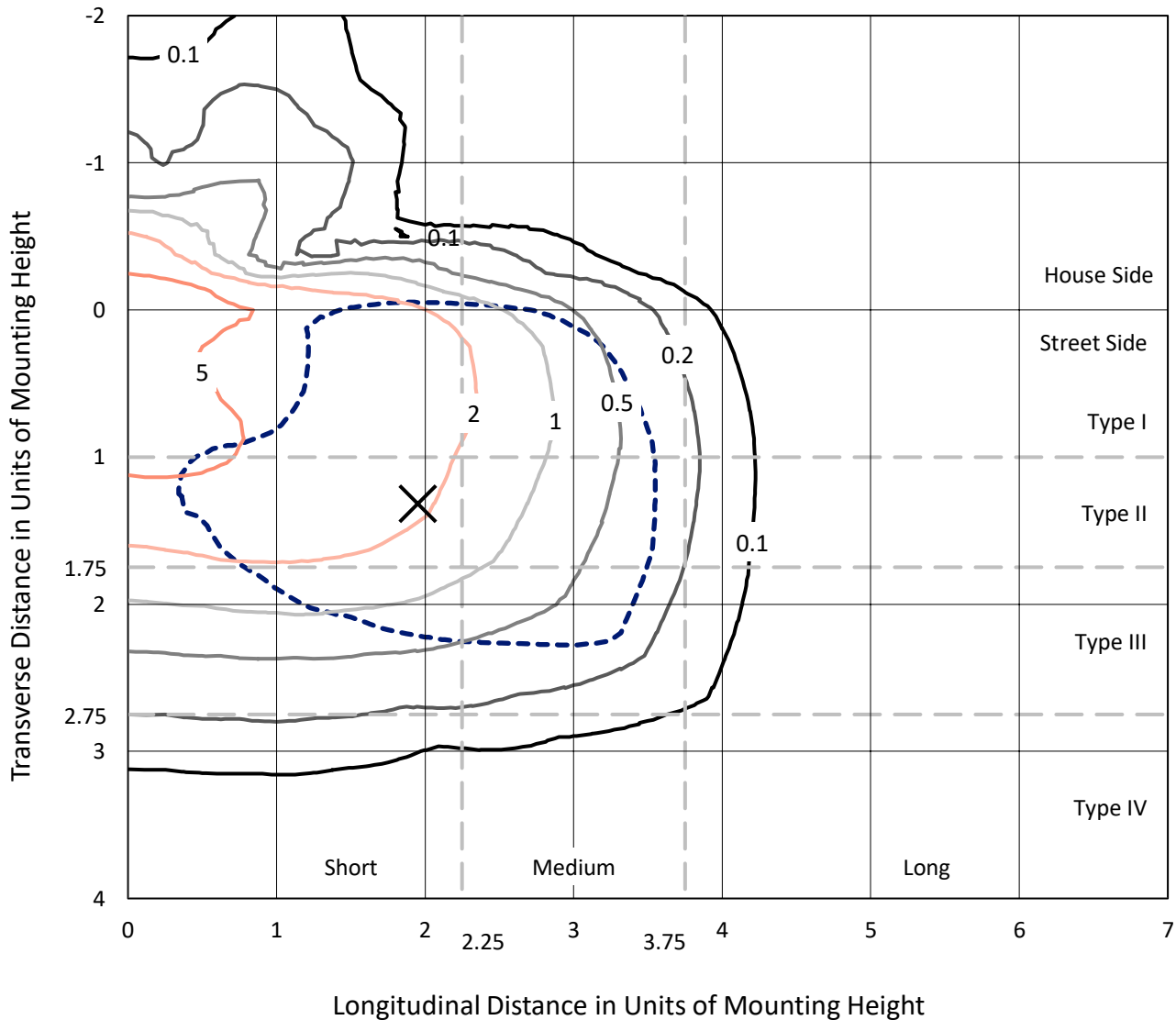
Lumens per Lamp: N/A
Luminaire Lumens: 42949.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

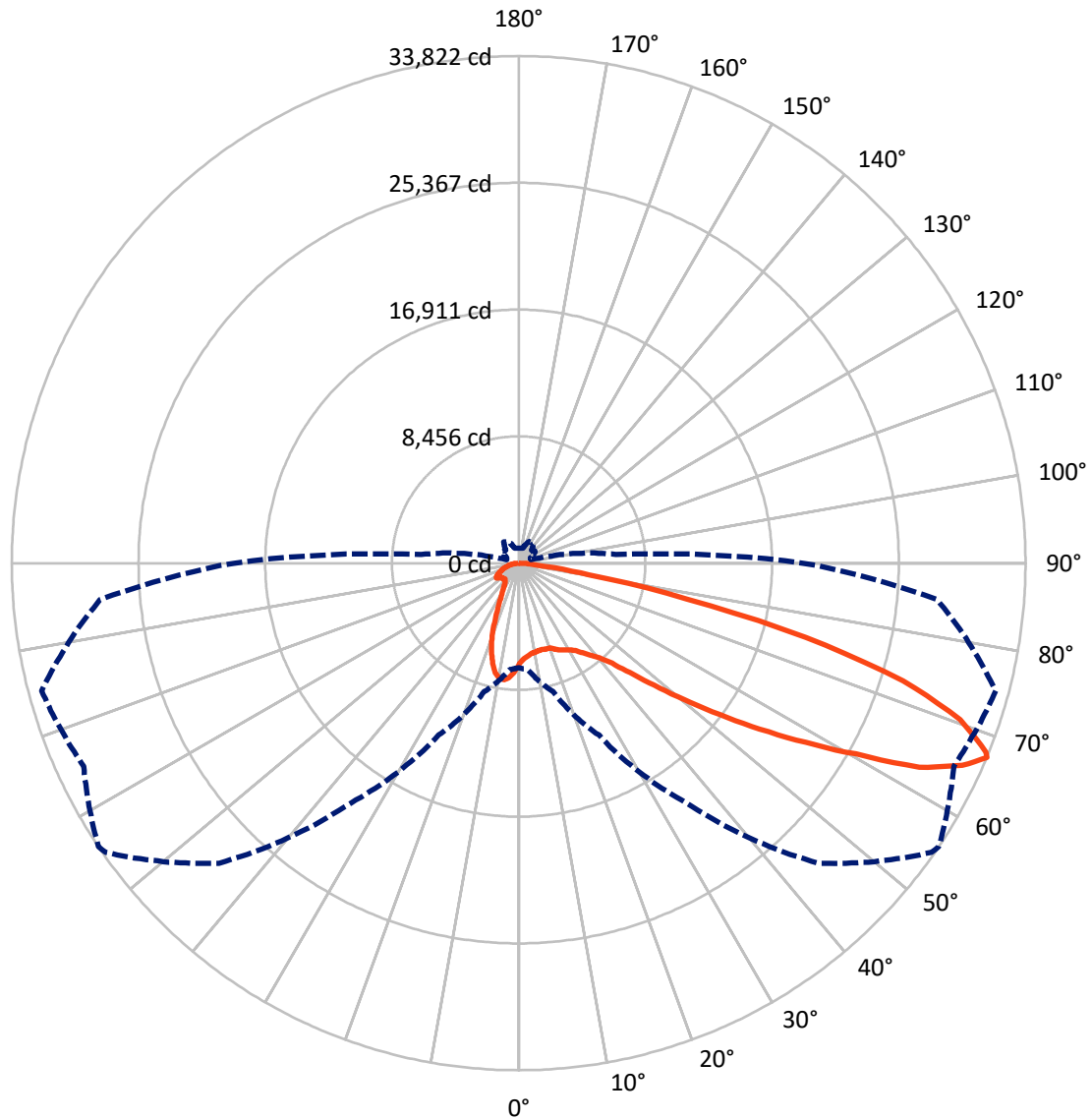
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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	6799.3	0.0	6799.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	36150.1	0.0	36150.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	42949.5	0.0	42949.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.8	1.5
10°-20°	1756.4	4.1
20°-30°	2754.5	6.4
30°-40°	3932.1	9.2
40°-50°	5934.7	13.8
50°-60°	9447.0	22.0
60°-70°	12077.3	28.1
70°-80°	5888.5	13.7
80°-90°	515.1	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°	42949.5	100.0
0°-180°	42949.5	100.0

Coefficient of Utilization

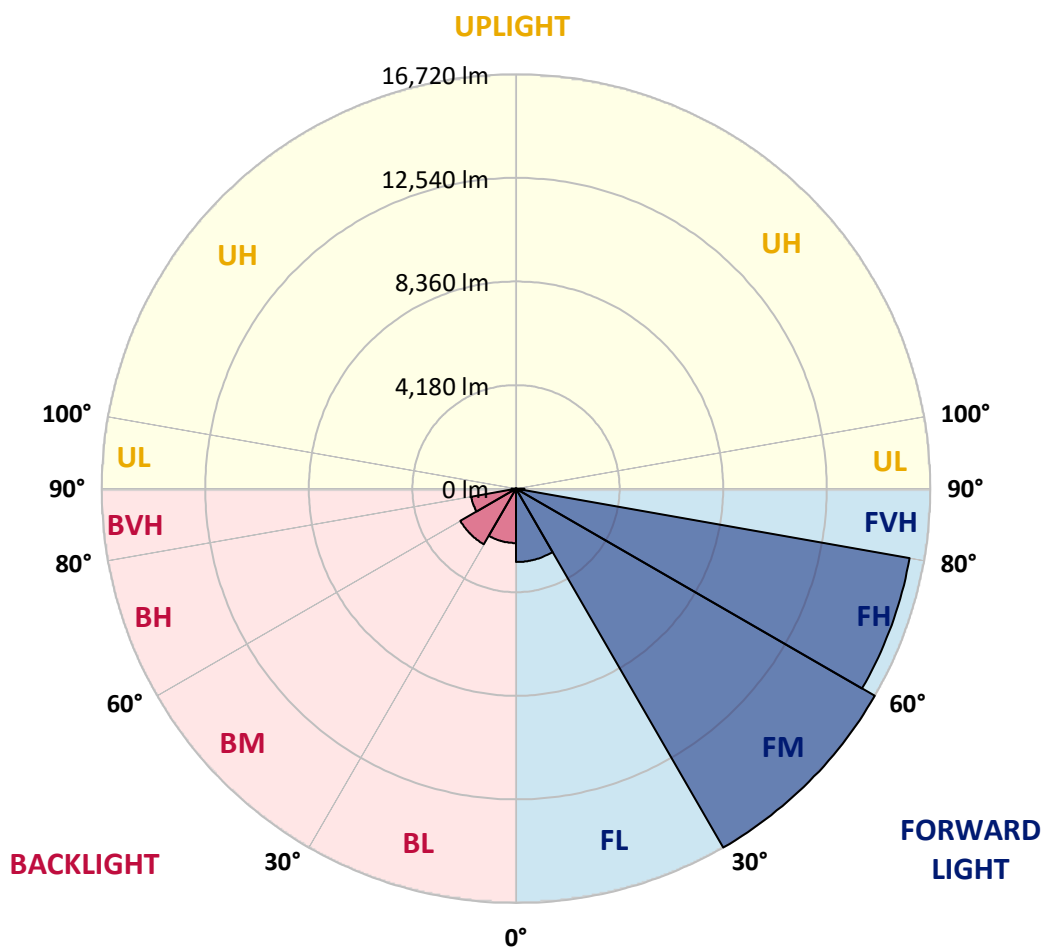


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2959.7	6.9			
FM (30°-60°)	16719.9	38.9			
FH (60°-80°)	16128.5	37.6			G5
FVH (80°-90°)	342.1	0.8			G3/500
BL (0°-30°)	2195.0	5.1	B3/2500		
BM (30°-60°)	2594.0	6.0	B3/5000		
BH (60°-80°)	1837.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	173.0	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°	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8
2.5°	6138.9	6113.8	6144.0	6113.8	6249.7	6330.3	6355.5	6390.7	6516.6	6637.5
5°	5882.1	5771.3	5892.2	5932.5	5942.5	6078.5	6219.5	6244.7	6310.2	6506.6
7.5°	5454.0	5579.9	5534.6	5655.5	5781.4	5917.3	6149.0	6083.5	6325.3	6511.6
10°	5363.4	5373.5	5423.8	5469.1	5579.9	5756.2	6078.5	6038.2	6285.0	6682.8
12.5°	5454.0	5454.0	5438.9	5403.7	5529.6	5700.8	5957.6	5977.8	6365.6	6733.2
15°	5771.3	5831.7	5670.6	5695.8	5645.4	5700.8	5927.4	5972.7	6395.8	6773.5
17.5°	6546.9	6526.7	6335.3	6068.4	5846.8	5811.6	5967.7	6018.1	6365.6	6889.3
20°	7302.3	7262.0	6929.6	6652.6	6214.5	6008.0	6033.2	6038.2	6415.9	6964.8
22.5°	8143.3	8249.0	7886.4	7322.4	6778.5	6264.8	6164.1	6244.7	6531.7	7005.1
25°	9462.7	9236.1	8923.9	8183.6	7307.3	6662.7	6380.7	6421.0	6642.5	7105.9
27.5°	10414.5	10323.9	9835.4	9236.1	8047.6	6974.9	6496.5	6572.0	6844.0	7100.8
30°	11331.1	11331.1	11034.0	10137.5	8828.2	7498.7	6743.3	6708.0	6748.3	7090.7
32.5°	12403.8	12257.7	11829.7	11235.4	9810.2	7977.1	6939.7	6949.7	6949.7	7277.1
35°	12967.8	13204.5	12917.4	11950.5	10560.6	8772.8	7413.1	7337.5	7282.1	7483.6
37.5°	13793.7	13934.7	13632.6	13063.5	11492.2	9417.4	7831.0	7770.6	7448.3	7644.7
40°	14292.3	14267.1	14257.0	13995.2	12726.1	10177.8	8445.4	8289.3	7856.2	8213.8
42.5°	14574.3	14523.9	15143.4	14982.2	13889.4	11295.8	9216.0	9130.3	8651.9	9226.0
45°	14891.6	15264.2	15772.9	16226.1	15244.1	12867.1	10520.3	10399.4	9971.4	10701.6
47.5°	15168.6	15626.8	16276.5	16759.9	16467.9	14574.3	12131.8	12162.0	11880.0	12630.4
50°	15631.9	15677.2	16558.5	17535.5	17762.1	16150.6	14297.3	14247.0	14121.1	15173.6
52.5°	15490.9	15626.8	16739.8	17988.7	18361.4	17817.5	16624.0	16775.0	16608.9	17933.3
55°	13194.4	13602.3	16629.0	18467.2	19781.6	19701.0	19615.4	19514.7	19504.6	21035.5
57.5°	12152.0	12484.3	14649.8	18995.9	21302.4	21896.7	22450.7	22561.5	22556.4	24404.7
60°	11467.1	11809.5	13849.1	18708.9	22596.7	24772.3	25834.9	25850.0	25819.8	28005.4
62.5°	10127.5	10459.9	12464.2	17137.6	22954.3	27426.3	29793.2	29989.6	28604.7	31107.6
65°	8515.9	8787.9	10555.5	14735.5	22002.5	29113.3	32769.5	32537.9	30951.5	32880.3
67°	6964.8	7146.1	8868.5	12650.5	19514.7	28302.5	33630.7	33822.0	32034.3	32955.8
67.5°	6521.7	6687.9	8314.5	11940.5	18567.9	27688.1	33660.9	33630.7	32054.4	32971.0
70°	4527.4	4597.9	5665.5	8213.8	13677.9	23392.4	31203.3	31273.8	30709.8	31183.2
72.5°	3001.5	3107.2	3787.1	5177.0	8062.7	17021.8	26081.7	26837.1	26479.5	25568.0
75°	1933.8	1994.3	2477.7	3082.1	3968.4	9694.4	19267.9	19771.5	18950.6	15813.2
77.5°	1082.7	1148.2	1495.7	1873.4	1933.8	4033.9	10822.5	11446.9	9699.4	6718.1
80°	674.8	760.4	1128.1	1113.0	921.6	1480.6	4461.9	4779.2	3877.8	2311.5
82.5°	508.6	574.1	871.2	780.6	518.7	659.7	1672.0	1792.8	1420.2	891.4
85°	347.5	438.1	629.5	483.5	271.9	317.3	664.8	715.1	649.6	433.1
87.5°	125.9	186.3	327.3	241.7	120.9	95.7	216.5	241.7	231.7	196.4
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°
6682.8	0°	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8	6682.8
6743.3	2.5°	6838.9	6909.4	6944.7	7151.2	7236.8	7221.7	7241.8	7272.0	7302.3	7342.5
6828.9	5°	6894.3	7110.9	7226.7	7468.4	7629.6	7559.1	7649.7	7624.6	7589.3	7584.3
6985.0	7.5°	7075.6	7352.6	7700.1	7765.6	7836.1	7659.8	7508.7	7302.3	7251.9	7075.6
7115.9	10°	7397.9	7624.6	8047.6	8072.8	7760.5	7307.3	6969.9	6541.8	6536.8	6279.9
7317.4	12.5°	7705.1	7962.0	8304.4	8158.4	7413.1	6793.6	6244.7	5776.3	5579.9	5449.0
7438.2	15°	7896.5	8319.5	8500.8	7871.3	6803.7	5967.7	5257.6	4754.0	4552.6	4456.9
7589.3	17.5°	8072.8	8662.0	8581.4	7367.7	6053.3	5116.6	4270.6	3832.4	3777.0	3706.5
7831.0	20°	8314.5	8787.9	8294.4	6713.0	5202.2	4018.8	3479.9	3268.4	3318.8	3349.0
7856.2	22.5°	8541.1	8853.4	7931.8	5997.9	4109.4	3182.8	2915.9	2961.2	3036.7	3137.5
7916.7	25°	8641.8	8959.1	7443.3	5010.9	3127.4	2679.2	2618.7	2694.3	2820.2	2825.2
8002.3	27.5°	8707.3	8883.6	6854.1	4049.0	2472.7	2341.8	2432.4	2487.8	2502.9	2563.3
8183.6	30°	8823.1	8727.5	6108.7	2895.7	2074.8	2079.9	2195.7	2195.7	2195.7	2241.0
8364.9	32.5°	9024.6	8621.7	5237.5	2115.1	1787.8	1948.9	1918.7	1908.7	1888.5	1833.1
8596.5	35°	9150.5	8334.6	4134.6	1566.2	1606.5	1787.8	1777.7	1621.6	1359.7	1228.8
9185.7	37.5°	9412.4	8188.6	3041.8	1208.6	1500.7	1707.2	1651.8	1274.1	987.1	861.2
9916.0	40°	9976.4	8092.9	2105.1	1057.6	1430.2	1666.9	1475.6	1087.8	755.4	533.8
11044.0	42.5°	10666.3	8098.0	1430.2	997.1	1435.3	1752.5	1420.2	931.7	533.8	428.1
12549.8	45°	11593.0	8022.4	982.0	997.1	1525.9	1893.6	1455.4	846.1	518.7	543.9
14438.3	47.5°	12590.1	8087.9	730.2	906.5	1541.0	1898.6	1329.5	830.9	498.6	629.5
16493.0	50°	13753.4	8153.3	604.3	836.0	1546.1	1838.2	1223.8	810.8	518.7	664.8
18849.9	52.5°	14952.0	8359.8	513.7	790.7	1606.5	1813.0	1223.8	841.0	518.7	579.1
21851.4	55°	16739.8	8888.6	740.3	987.1	1828.1	1979.2	1505.8	1178.4	725.2	745.3
24727.0	57.5°	18713.9	9432.5	825.9	1037.4	1878.4	1782.8	1621.6	1299.3	765.5	770.5
26963.0	60°	20013.2	9452.6	820.9	1012.2	1757.6	1541.0	1586.4	1369.8	780.6	659.7
28347.9	62.5°	20531.9	8838.3	856.1	1012.2	1636.7	1440.3	1626.6	1475.6	805.8	825.9
28740.7	65°	19942.7	7569.2	825.9	906.5	1440.3	1289.2	1636.7	1495.7	881.3	830.9
28035.6	67°	19021.1	6521.7	841.0	861.2	1339.6	1223.8	1722.3	1571.2	1022.3	997.1
27668.0	67.5°	18759.2	6244.7	836.0	836.0	1304.3	1203.6	1742.5	1571.2	1042.5	1032.4
24419.8	70°	16533.3	5061.2	856.1	825.9	1153.3	1143.2	1853.3	1656.9	1198.6	1208.6
17938.4	72.5°	12585.1	3837.5	851.1	825.9	1002.2	1092.8	1868.4	1712.3	1304.3	1208.6
10046.9	75°	7151.2	2296.4	750.4	720.2	790.7	951.8	1747.5	1631.7	1269.1	1082.7
4013.7	77.5°	2956.2	1183.5	689.9	649.6	654.7	775.6	1455.4	1520.9	1208.6	921.6
1339.6	80°	1102.9	710.1	554.0	518.7	503.6	569.1	1037.4	1213.7	1032.4	755.4
589.2	82.5°	574.1	443.2	377.7	377.7	342.5	362.6	559.0	805.8	780.6	518.7
236.7	85°	292.1	251.8	216.5	211.5	191.4	171.2	282.0	478.4	448.2	287.1
105.8	87.5°	156.1	141.0	90.6	85.6	70.5	45.3	50.4	95.7	156.1	125.9
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>
6682.8
7382.8
7629.6
7136.1
6269.9
5418.8
4436.8
3741.8
3313.7
3082.1
2875.6
2618.7
2291.4
1802.9
1289.2
856.1
518.7
418.0
554.0
700.0
770.5
594.3
785.6
745.3
679.9
836.0
815.8
982.0
1012.2
1118.0
1072.7
966.9
871.2
689.9
407.9
236.7
90.6
0.0

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