

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: P477823

Luminaire Tested: **IFLD-S-SA6D-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477823
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

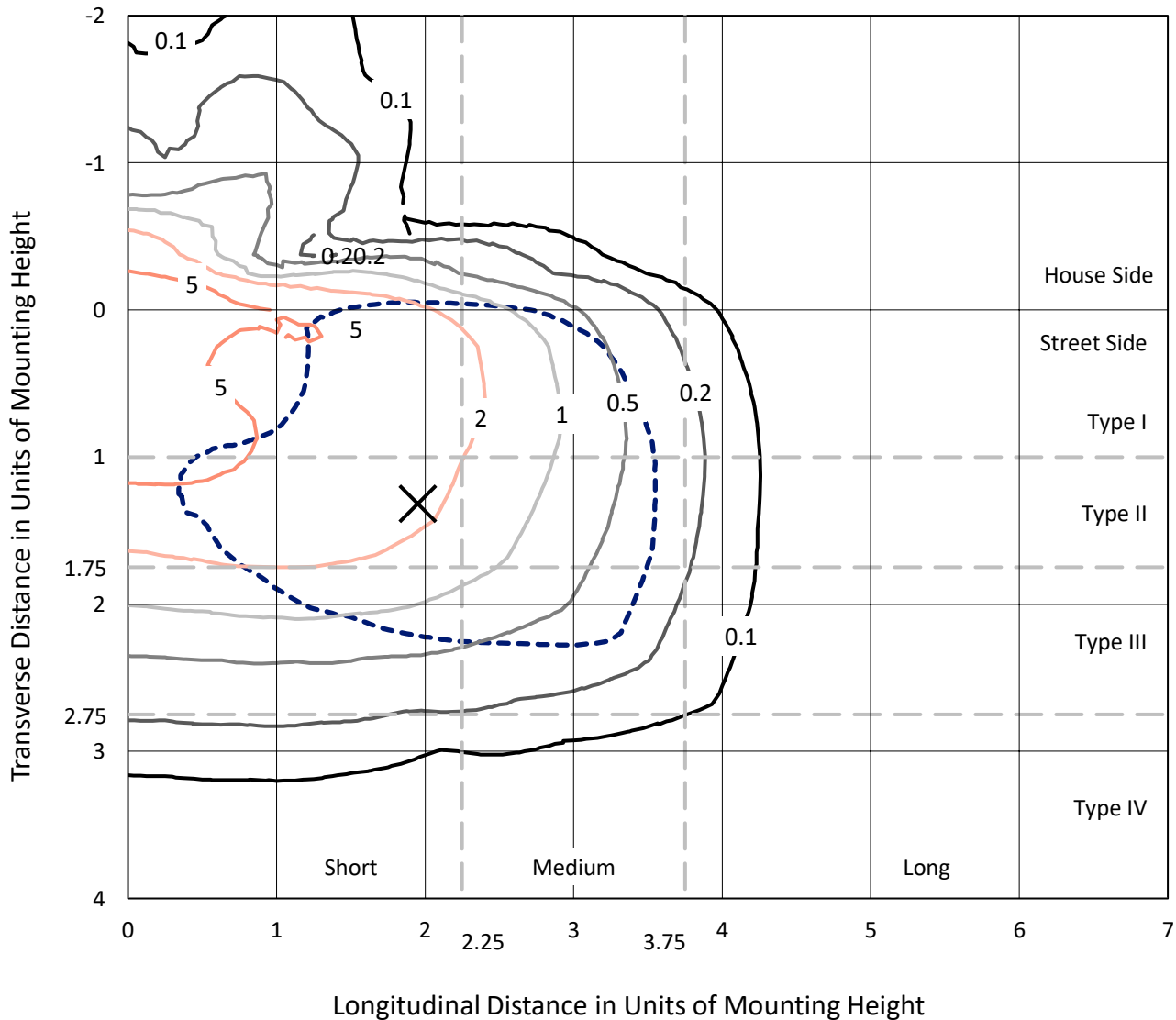
Lumens per Lamp: N/A
Luminaire Lumens: 45940.9 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

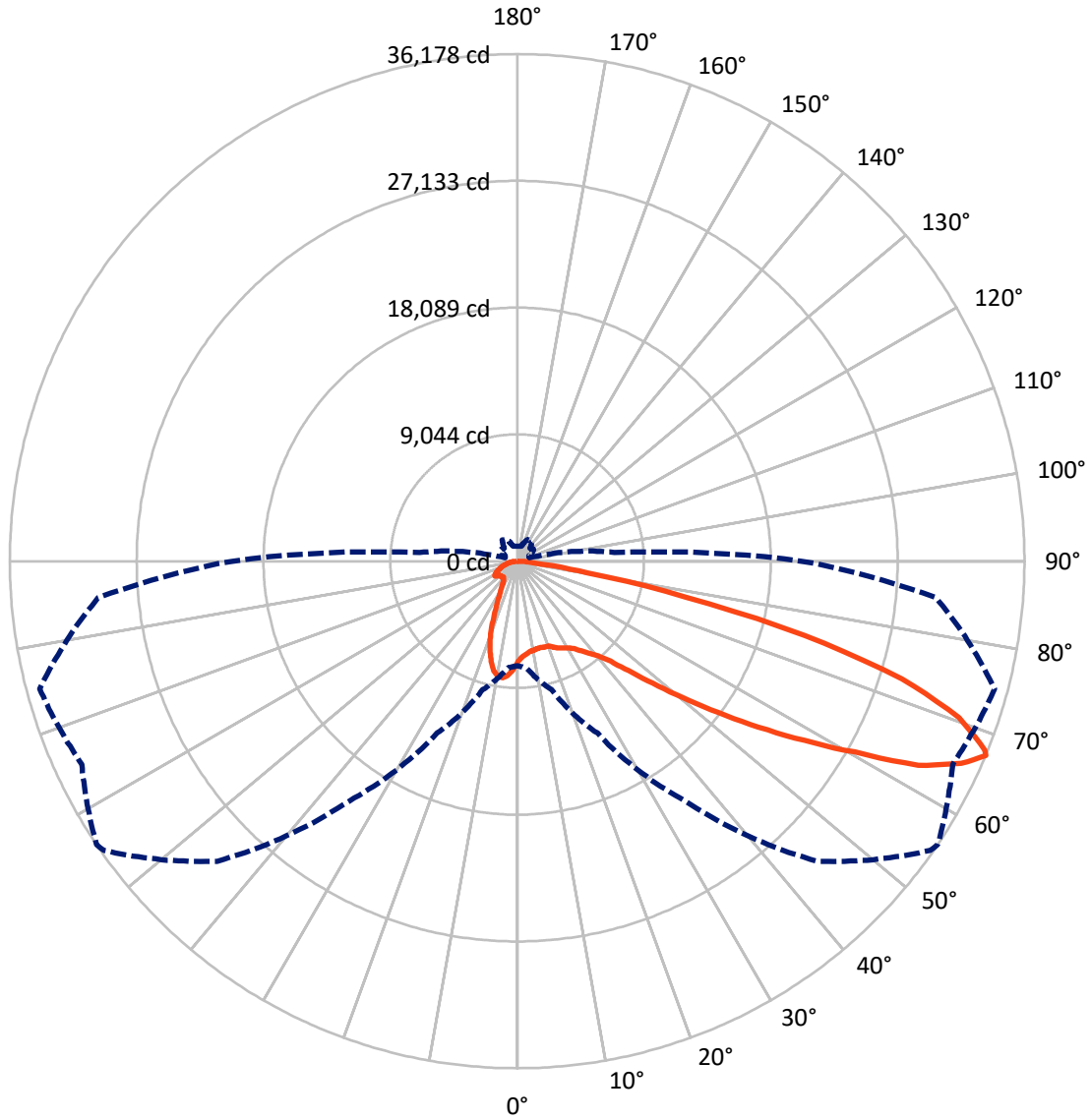
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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	7272.9	0.0	7272.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	38668.0	0.0	38668.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	45940.9	0.0	45940.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.7	1.5
10°-20°	1878.7	4.1
20°-30°	2946.4	6.4
30°-40°	4206.0	9.2
40°-50°	6348.1	13.8
50°-60°	10105.0	22.0
60°-70°	12918.5	28.1
70°-80°	6298.6	13.7
80°-90°	551.0	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°	45940.9	100.0
0°-180°	45940.9	100.0

Coefficient of Utilization

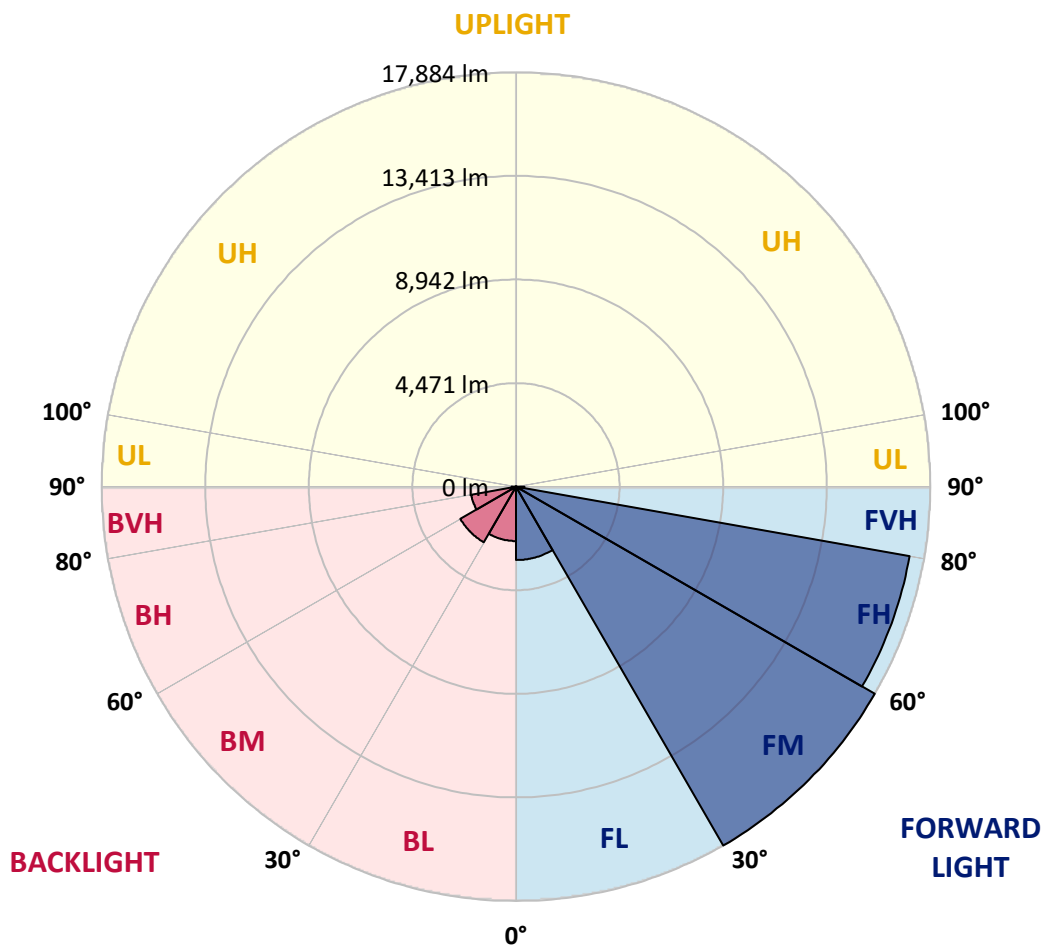


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3165.8	6.9			
FM (30°-60°)	17884.4	38.9			
FH (60°-80°)	17251.8	37.6			G5
FVH (80°-90°)	365.9	0.8			G3/500
BL (0°-30°)	2347.9	5.1	B3/2500		
BM (30°-60°)	2774.7	6.0	B3/5000		
BH (60°-80°)	1965.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	185.1	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°	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3
2.5°	6566.5	6539.6	6571.9	6539.6	6685.0	6771.2	6798.1	6835.8	6970.5	7099.8
5°	6291.8	6173.3	6302.6	6345.7	6356.4	6501.9	6652.7	6679.6	6749.7	6959.7
7.5°	5833.9	5968.6	5920.1	6049.4	6184.0	6329.5	6577.3	6507.3	6765.8	6965.1
10°	5736.9	5747.7	5801.6	5850.1	5968.6	6157.1	6501.9	6458.8	6722.7	7148.3
12.5°	5833.9	5833.9	5817.7	5780.0	5914.7	6097.9	6372.6	6394.1	6808.9	7202.2
15°	6173.3	6237.9	6065.5	6092.5	6038.6	6097.9	6340.3	6388.7	6841.2	7245.2
17.5°	7002.8	6981.3	6776.6	6491.1	6254.1	6216.4	6383.4	6437.2	6808.9	7369.1
20°	7810.9	7767.8	7412.2	7116.0	6647.3	6426.5	6453.4	6458.8	6862.8	7449.9
22.5°	8710.5	8823.6	8435.7	7832.4	7250.6	6701.2	6593.4	6679.6	6986.7	7493.0
25°	10121.8	9879.4	9545.4	8753.6	7816.2	7126.7	6825.1	6868.2	7105.2	7600.8
27.5°	11139.9	11042.9	10520.4	9879.4	8608.1	7460.7	6949.0	7029.8	7320.7	7595.4
30°	12120.3	12120.3	11802.5	10843.6	9443.1	8020.9	7212.9	7175.2	7218.3	7584.6
32.5°	13267.7	13111.5	12653.6	12018.0	10493.5	8532.7	7423.0	7433.8	7433.8	7783.9
35°	13871.0	14124.2	13817.1	12782.9	11296.1	9383.8	7929.4	7848.6	7789.3	8004.8
37.5°	14754.4	14905.3	14582.1	13973.4	12292.7	10073.3	8376.5	8311.8	7967.1	8177.2
40°	15287.7	15260.8	15250.0	14969.9	13612.4	10886.7	9033.7	8866.7	8403.4	8785.9
42.5°	15589.4	15535.5	16198.1	16025.7	14856.8	12082.6	9857.8	9766.3	9254.5	9868.6
45°	15928.8	16327.4	16871.5	17356.3	16305.8	13763.3	11253.0	11123.7	10665.9	11447.0
47.5°	16225.0	16715.2	17410.1	17927.3	17614.8	15589.4	12976.8	13009.1	12707.5	13510.1
50°	16720.6	16769.1	17711.8	18756.8	18999.2	17275.5	15293.1	15239.3	15104.6	16230.4
52.5°	16569.8	16715.2	17905.7	19241.7	19640.3	19058.5	17781.8	17943.4	17765.7	19182.4
55°	14113.4	14549.7	17787.2	19753.4	21159.4	21073.2	20981.6	20873.9	20863.1	22500.7
57.5°	12998.3	13353.9	15670.2	20319.0	22786.2	23421.8	24014.4	24132.9	24127.5	26104.4
60°	12265.7	12632.0	14813.7	20012.0	24170.6	26497.7	27634.3	27650.4	27618.1	29956.0
62.5°	10832.9	11188.4	13332.3	18331.3	24553.0	29336.5	31868.3	32078.4	30597.0	33274.3
65°	9109.1	9400.0	11290.7	15761.8	23534.9	31141.1	35051.9	34804.1	33107.3	35170.4
67°	7449.9	7643.9	9486.2	13531.6	20873.9	30273.8	35973.1	36177.8	34265.4	35251.2
67.5°	6975.9	7153.7	8893.6	12772.1	19861.1	29616.6	36005.4	35973.1	34287.0	35267.4
70°	4842.7	4918.1	6060.2	8785.9	14630.6	25021.7	33376.6	33452.0	32848.7	33355.1
72.5°	3210.5	3323.7	4050.9	5537.6	8624.3	18207.4	27898.2	28706.3	28323.8	27348.8
75°	2068.5	2133.2	2650.3	3296.7	4244.8	10369.6	20609.9	21148.6	20270.5	16914.6
77.5°	1158.2	1228.2	1599.9	2003.9	2068.5	4314.8	11576.2	12244.2	10375.0	7186.0
80°	721.8	813.4	1206.6	1190.5	985.8	1583.7	4772.7	5112.1	4147.8	2472.5
82.5°	544.1	614.1	931.9	835.0	554.8	705.7	1788.4	1917.7	1519.1	953.5
85°	371.7	468.7	673.4	517.1	290.9	339.4	711.1	764.9	694.9	463.3
87.5°	134.7	199.3	350.1	258.6	129.3	102.3	231.6	258.6	247.8	210.1
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°
7148.3	0°	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3	7148.3
7212.9	2.5°	7315.3	7390.7	7428.4	7649.3	7740.8	7724.7	7746.2	7778.5	7810.9	7854.0
7304.5	5°	7374.5	7606.2	7730.1	7988.6	8161.0	8085.6	8182.6	8155.6	8117.9	8112.5
7471.5	7.5°	7568.5	7864.7	8236.4	8306.4	8381.9	8193.3	8031.7	7810.9	7757.0	7568.5
7611.5	10°	7913.2	8155.6	8608.1	8635.0	8301.1	7816.2	7455.3	6997.5	6992.1	6717.3
7827.0	12.5°	8241.8	8516.5	8882.8	8726.6	7929.4	7266.8	6679.6	6178.7	5968.6	5828.5
7956.3	15°	8446.5	8899.0	9092.9	8419.6	7277.6	6383.4	5623.8	5085.1	4869.7	4767.3
8117.9	17.5°	8635.0	9265.3	9179.1	7880.9	6474.9	5473.0	4568.0	4099.4	4040.1	3964.7
8376.5	20°	8893.6	9400.0	8872.1	7180.6	5564.6	4298.7	3722.3	3496.0	3549.9	3582.2
8403.4	22.5°	9136.0	9470.0	8484.2	6415.7	4395.6	3404.5	3119.0	3167.4	3248.2	3356.0
8468.1	25°	9243.7	9583.1	7961.7	5359.9	3345.2	2865.8	2801.1	2881.9	3016.6	3022.0
8559.6	27.5°	9313.8	9502.3	7331.4	4331.0	2644.9	2504.9	2601.8	2661.1	2677.2	2741.9
8753.6	30°	9437.7	9335.3	6534.2	3097.4	2219.4	2224.7	2348.6	2348.6	2348.6	2397.1
8947.5	32.5°	9653.1	9222.2	5602.3	2262.5	1912.3	2084.7	2052.4	2041.6	2020.1	1960.8
9195.3	35°	9787.8	8915.2	4422.6	1675.3	1718.4	1912.3	1901.5	1734.5	1454.4	1314.4
9825.5	37.5°	10067.9	8758.9	3253.6	1292.8	1605.3	1826.1	1766.9	1362.9	1055.8	921.1
10606.6	40°	10671.3	8656.6	2251.7	1131.2	1529.9	1783.0	1578.3	1163.5	808.0	571.0
11813.3	42.5°	11409.2	8662.0	1529.9	1066.6	1535.2	1874.6	1519.1	996.6	571.0	457.9
13423.9	45°	12400.4	8581.2	1050.4	1066.6	1632.2	2025.4	1556.8	905.0	554.8	581.8
15444.0	47.5°	13467.0	8651.2	781.1	969.6	1648.4	2030.8	1422.1	888.8	533.3	673.4
17641.8	50°	14711.4	8721.2	646.4	894.2	1653.7	1966.2	1309.0	867.3	554.8	711.1
20162.8	52.5°	15993.4	8942.1	549.5	845.7	1718.4	1939.2	1309.0	899.6	554.8	619.5
23373.3	55°	17905.7	9507.7	791.9	1055.8	1955.4	2117.0	1610.7	1260.5	775.7	797.2
26449.2	57.5°	20017.4	10089.5	883.4	1109.7	2009.3	1906.9	1734.5	1389.8	818.8	824.2
28840.9	60°	21407.1	10111.0	878.0	1082.7	1880.0	1648.4	1696.8	1465.2	835.0	705.7
30322.3	62.5°	21962.0	9453.8	915.8	1082.7	1750.7	1540.6	1739.9	1578.3	861.9	883.4
30742.5	65°	21331.7	8096.4	883.4	969.6	1540.6	1379.0	1750.7	1599.9	942.7	888.8
29988.3	67°	20345.9	6975.9	899.6	921.1	1432.9	1309.0	1842.3	1680.7	1093.5	1066.6
29595.1	67.5°	20065.8	6679.6	894.2	894.2	1395.2	1287.4	1863.8	1680.7	1115.1	1104.3
26120.6	70°	17684.9	5413.7	915.8	883.4	1233.6	1222.8	1982.3	1772.3	1282.1	1292.8
19187.8	72.5°	13461.6	4104.7	910.4	883.4	1072.0	1168.9	1998.5	1831.5	1395.2	1292.8
10746.7	75°	7649.3	2456.4	802.6	770.3	845.7	1018.1	1869.2	1745.3	1357.5	1158.2
4293.3	77.5°	3162.1	1265.9	738.0	694.9	700.3	829.6	1556.8	1626.8	1292.8	985.8
1432.9	80°	1179.7	759.5	592.5	554.8	538.7	608.7	1109.7	1298.2	1104.3	808.0
630.3	82.5°	614.1	474.0	404.0	404.0	366.3	387.8	597.9	861.9	835.0	554.8
253.2	85°	312.4	269.3	231.6	226.2	204.7	183.2	301.7	511.7	479.4	307.0
113.1	87.5°	167.0	150.8	97.0	91.6	75.4	48.5	53.9	102.3	167.0	134.7
0.0	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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180°
7148.3
7897.0
8161.0
7633.1
6706.6
5796.2
4745.8
4002.4
3544.5
3296.7
3075.9
2801.1
2451.0
1928.5
1379.0
915.8
554.8
447.1
592.5
748.8
824.2
635.6
840.3
797.2
727.2
894.2
872.7
1050.4
1082.7
1195.9
1147.4
1034.3
931.9
738.0
436.3
253.2
97.0
0.0

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