

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: P637843

Luminaire Tested: **IFLD-S-SA2E-730-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637843  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-730-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13897.2 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

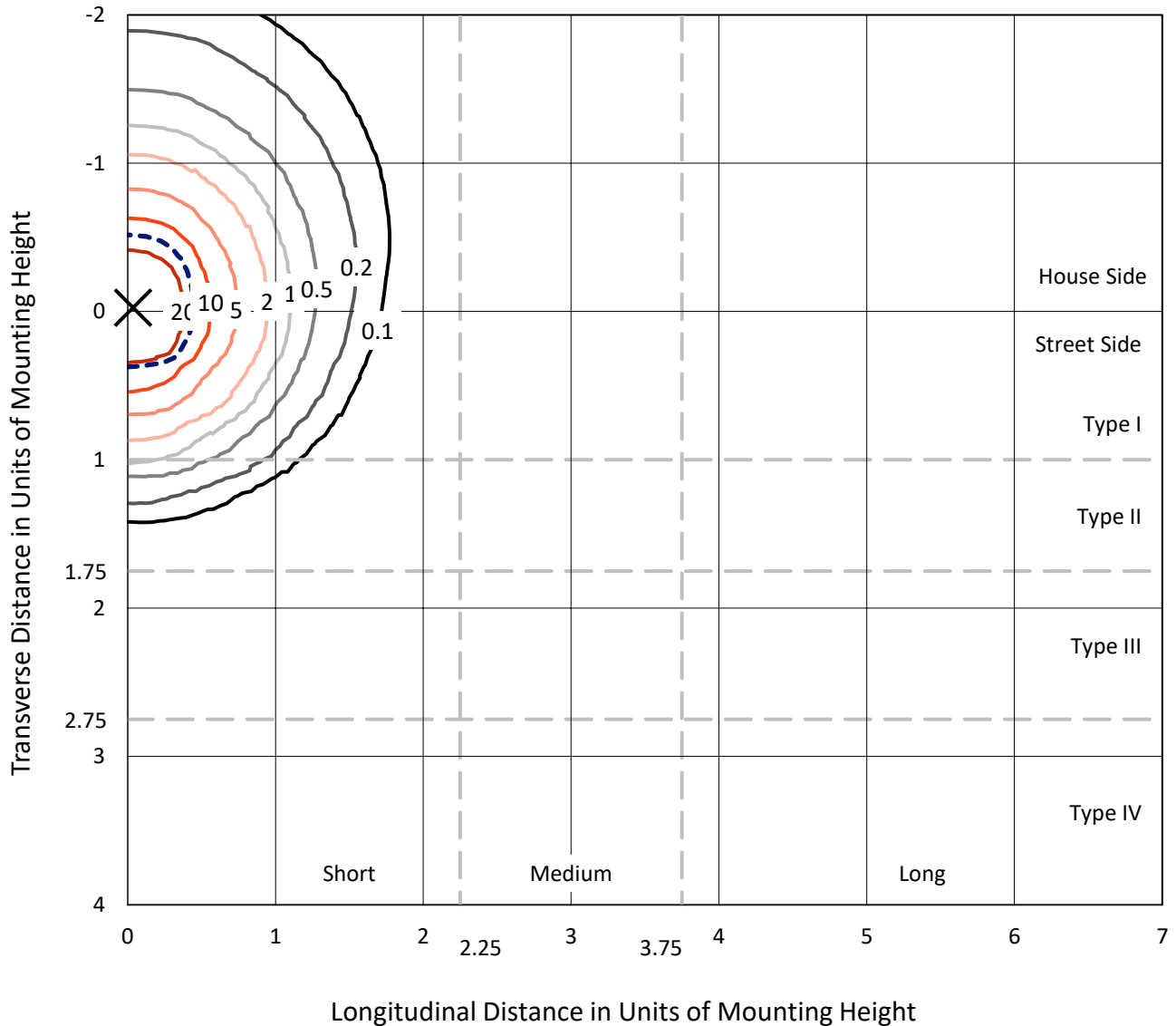
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

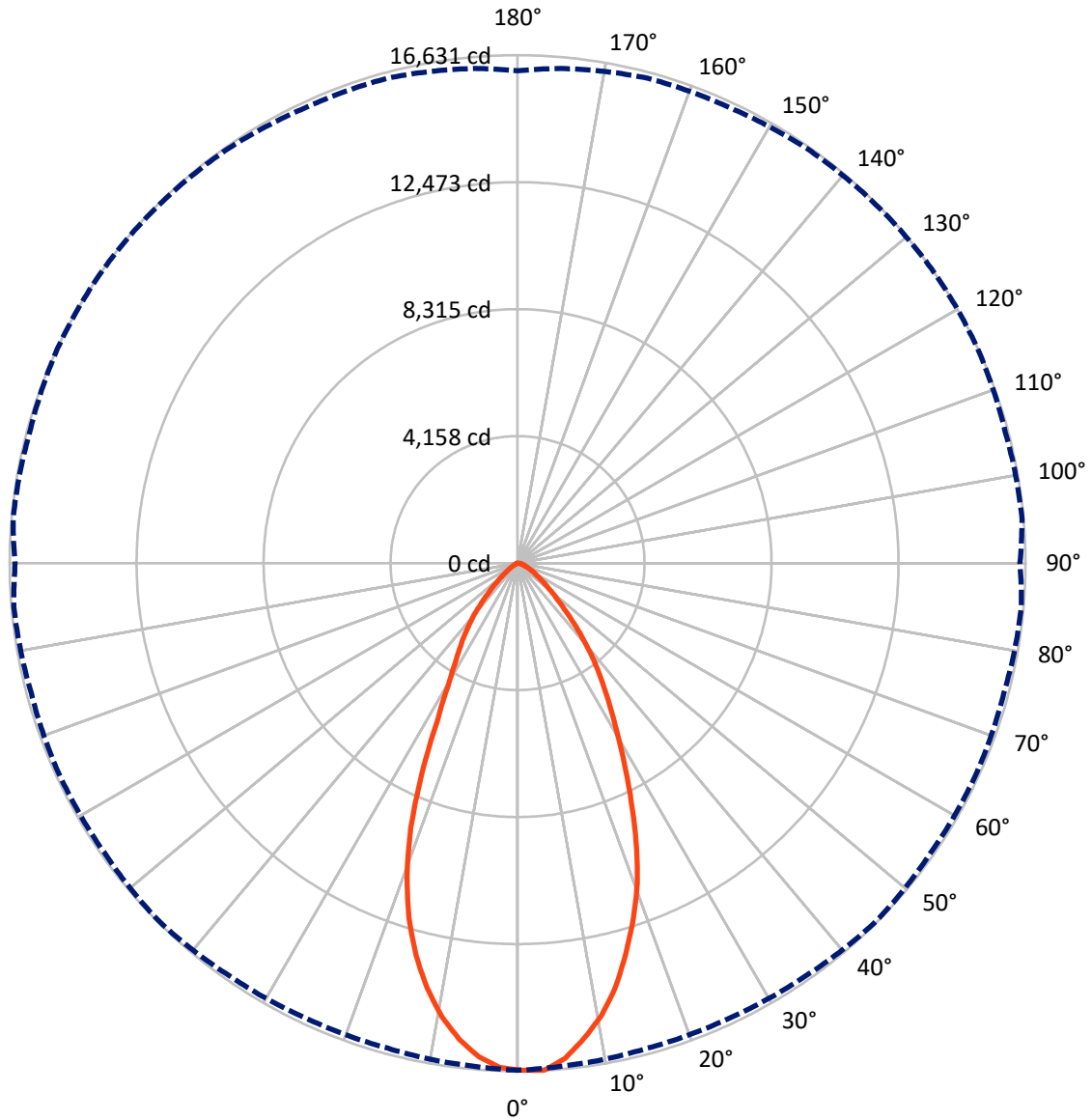
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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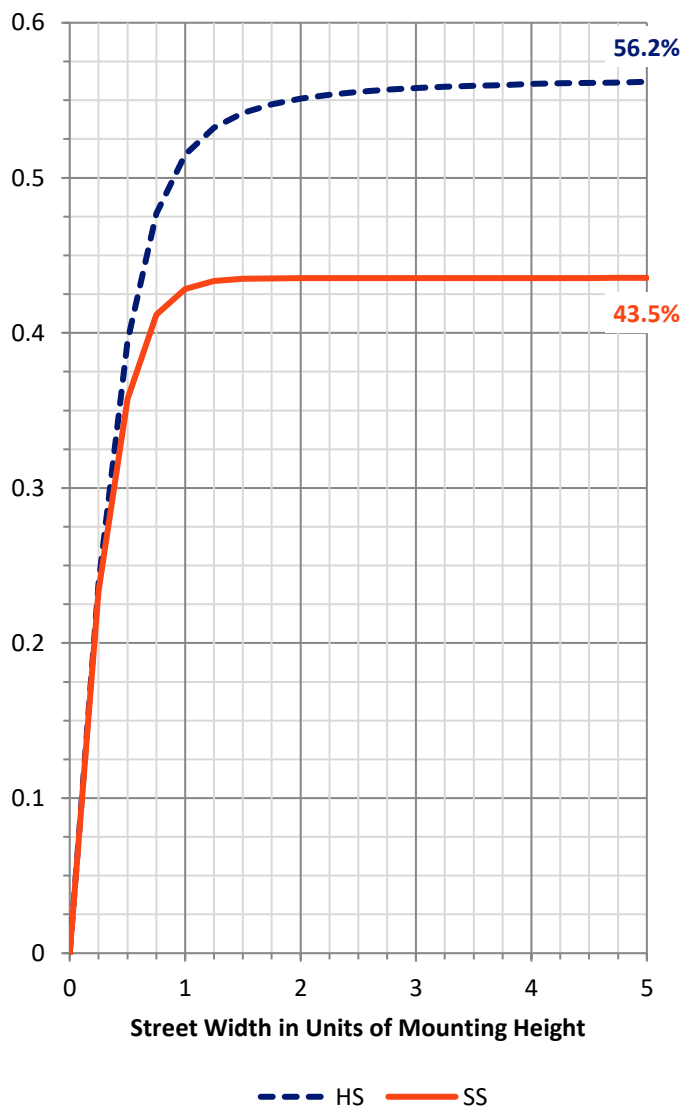
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7885.8	0.0	7885.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	6011.4	0.0	6011.4
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	13897.2	0.0	13897.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1507.7	10.8
10°-20°	3594.0	25.9
20°-30°	3660.4	26.3
30°-40°	2729.6	19.6
40°-50°	1426.0	10.3
50°-60°	599.8	4.3
60°-70°	245.0	1.8
70°-80°	103.1	0.7
80°-90°	31.8	0.2
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°	13897.2	100.0
0°-180°	13897.2	100.0



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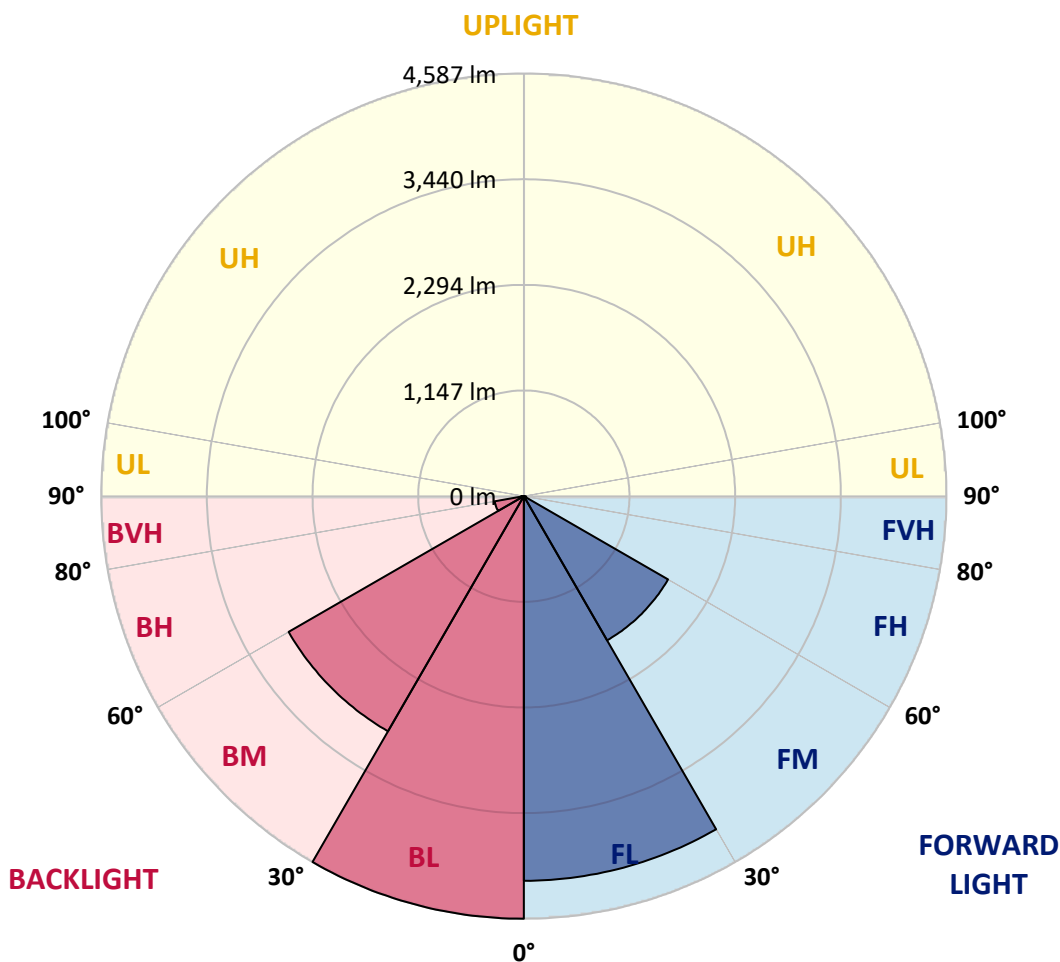
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4174.9	30.0			
FM (30°-60°)	1807.4	13.0			
FH (60°-80°)	26.2	0.2			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4587.2	33.0	B4/5000		
BM (30°-60°)	2947.9	21.2	B3/5000		
BH (60°-80°)	321.9	2.3	B1/500		G1/500
BVH (80°-90°)	28.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8
2.5°	16605.6	16537.8	16441.4	16432.4	16482.4	16591.3	16521.7	16525.3	16482.4	16555.6
5°	16345.0	16280.7	16214.6	16127.2	16200.4	16246.8	16211.1	16171.8	16116.5	16187.9
7.5°	15852.3	15816.6	15718.4	15679.1	15723.7	15775.5	15698.7	15688.0	15611.3	15704.1
10°	15098.9	15084.6	14988.2	14965.0	15004.3	15082.9	15048.9	15041.8	14993.6	14984.7
12.5°	14317.0	14261.7	14142.1	14134.9	14193.8	14311.7	14220.6	14133.1	14159.9	14183.1
15°	12303.4	12244.4	12540.8	13006.7	13251.3	13242.3	13269.1	13163.8	13131.7	13142.4
17.5°	9780.9	9680.9	9788.1	10509.3	11671.4	12346.2	12160.5	11933.8	11812.4	11732.1
20°	8442.0	8447.4	8427.8	8613.4	9338.2	10877.0	10832.4	10395.0	10236.1	10170.1
22.5°	7628.0	7597.7	7554.8	7613.7	7808.3	8711.6	9316.8	8915.1	8859.8	8786.6
25°	6830.0	6830.0	6778.3	6837.2	6892.5	6905.0	7512.0	7676.2	7569.1	7569.1
27.5°	6139.2	6103.5	6080.3	6107.0	6033.9	5682.2	5758.9	6599.8	6526.6	6481.9
30°	5453.7	5443.0	5403.7	5439.4	5168.1	4771.7	4611.1	5569.7	5646.5	5630.4
32.5°	4502.2	4545.0	4720.0	4775.3	4311.2	3991.6	3838.1	4623.6	4930.6	4918.1
35°	3059.8	3095.5	3295.4	3955.9	3573.9	3345.4	3300.8	3677.4	4182.6	4230.8
37.5°	2436.7	2431.4	2488.5	2606.3	2872.3	2817.0	2804.5	2902.7	3411.4	3432.9
40°	2008.3	2001.2	1999.4	1903.0	1836.9	2342.1	2308.2	2249.3	2690.2	2733.1
42.5°	1619.1	1626.3	1631.6	1421.0	1324.6	1806.6	1786.9	1726.3	2110.1	2160.0
45°	1271.0	1269.3	1280.0	1058.6	1031.8	1155.0	1335.3	1287.1	1592.4	1645.9
47.5°	658.7	681.9	826.5	819.4	831.9	819.4	1010.4	997.9	1197.8	1283.5
50°	442.7	449.9	462.4	464.1	655.2	603.4	685.5	776.5	839.0	971.1
52.5°	342.8	348.1	316.0	296.3	401.7	446.3	449.9	537.3	585.5	719.4
55°	191.0	214.2	230.3	232.1	221.4	330.3	328.5	398.1	435.6	524.8
57.5°	25.0	30.3	46.4	150.0	148.2	183.9	230.3	289.2	310.6	383.8
60°	1.8	3.6	5.4	23.2	98.2	107.1	157.1	180.3	216.0	269.6
62.5°	0.0	0.0	1.8	5.4	19.6	62.5	82.1	94.6	126.7	176.7
65°	0.0	0.0	1.8	3.6	7.1	23.2	32.1	51.8	75.0	108.9
67.5°	0.0	0.0	1.8	3.6	5.4	8.9	14.3	23.2	39.3	66.1
70°	0.0	0.0	1.8	3.6	5.4	7.1	10.7	14.3	21.4	35.7
72.5°	0.0	0.0	1.8	1.8	3.6	8.9	8.9	10.7	14.3	19.6
75°	0.0	0.0	1.8	3.6	5.4	8.9	8.9	8.9	10.7	12.5
77.5°	0.0	0.0	1.8	3.6	5.4	8.9	7.1	8.9	8.9	8.9
80°	0.0	0.0	1.8	3.6	5.4	8.9	10.7	8.9	7.1	7.1
82.5°	0.0	0.0	1.8	5.4	5.4	12.5	12.5	12.5	5.4	5.4
85°	0.0	0.0	3.6	5.4	8.9	14.3	14.3	10.7	5.4	3.6
87.5°	0.0	0.0	1.8	3.6	3.6	7.1	10.7	8.9	3.6	1.8
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
16603.8	0°	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8	16603.8
16448.5	2.5°	16580.6	16536.0	16619.9	16630.6	16594.9	16550.3	16446.7	16437.8	16257.5
16084.3	5°	16266.4	16193.2	16246.8	16282.5	16270.0	16221.8	16178.9	16139.7	15977.2
15493.4	7.5°	15680.9	15654.1	15679.1	15705.9	15757.6	15705.9	15688.0	15647.0	15486.3
14911.5	10°	15031.1	14981.1	15075.7	15063.2	15048.9	15034.7	14959.7	14966.8	14777.6
14118.9	12.5°	14233.1	14149.2	14240.3	14251.0	14240.3	14190.3	14106.4	14142.1	13968.9
13047.8	15°	13160.2	13151.3	13217.4	13260.2	13290.5	13237.0	13208.4	13226.3	13122.7
11669.6	17.5°	11842.8	11958.8	12174.8	12248.0	12249.8	12305.1	12289.1	12267.6	12190.9
10143.3	20°	10293.3	10516.4	10848.4	11189.4	11287.6	11241.2	11219.8	11259.0	11144.8
8709.8	22.5°	8863.3	9054.4	9439.9	9938.0	10225.4	10254.0	10248.6	10214.7	10170.1
7562.0	25°	7649.4	7819.0	8188.5	8643.8	9195.4	9277.5	9281.1	9270.4	9231.1
6521.2	27.5°	6624.7	6830.0	7033.5	7440.6	8027.9	8367.1	8324.2	8311.7	8297.4
5642.9	30°	5696.5	5955.3	6146.3	6399.8	6926.4	7385.2	7429.9	7408.4	7374.5
4916.3	32.5°	4961.0	5114.5	5357.3	5528.7	5907.1	6426.6	6598.0	6581.9	6551.6
4261.2	35°	4321.9	4382.6	4573.6	4764.6	5016.3	5519.7	5773.2	5737.5	5732.2
3472.1	37.5°	3559.6	3763.1	3868.5	4061.2	4238.0	4628.9	4978.8	4962.8	4964.5
2792.0	40°	2874.1	2991.9	3200.8	3363.2	3525.7	3811.3	4200.5	4211.2	4207.6
2161.8	42.5°	2206.5	2320.7	2540.3	2717.0	2861.6	3038.3	3409.7	3422.2	3438.2
1683.4	45°	1722.7	1795.9	1956.5	2140.4	2293.9	2401.0	2683.1	2763.4	2765.2
1305.0	47.5°	1337.1	1421.0	1535.2	1712.0	1861.9	1938.7	2144.0	2252.9	2247.5
1001.5	50°	1049.7	1126.4	1219.3	1358.5	1521.0	1581.7	1733.4	1840.5	1835.1
755.1	52.5°	803.3	901.5	983.6	1090.7	1249.6	1301.4	1410.3	1533.5	1515.6
553.4	55°	608.7	708.7	785.5	874.7	1019.3	1085.4	1160.4	1258.5	1262.1
428.4	57.5°	458.8	562.3	631.9	723.0	831.9	905.1	962.2	1067.5	1065.7
292.8	60°	328.5	417.7	501.6	596.2	680.1	764.1	803.3	903.3	906.9
207.1	62.5°	237.4	321.3	401.7	483.8	558.8	640.9	676.6	755.1	765.8
135.7	65°	166.0	224.9	317.8	380.2	464.1	524.8	571.3	639.1	651.6
80.3	67.5°	107.1	162.4	251.7	307.0	383.8	435.6	483.8	537.3	553.4
51.8	70°	64.3	123.2	187.4	246.4	316.0	362.4	408.8	455.2	464.1
25.0	72.5°	41.1	85.7	135.7	199.9	253.5	303.5	344.5	378.5	351.7
16.1	75°	23.2	58.9	107.1	157.1	205.3	253.5	287.4	305.3	244.6
10.7	77.5°	14.3	42.8	87.5	126.7	158.9	203.5	224.9	235.6	174.9
7.1	80°	8.9	32.1	73.2	103.5	103.5	150.0	174.9	183.9	126.7
5.4	82.5°	7.1	23.2	57.1	78.5	69.6	112.5	137.5	139.2	89.3
3.6	85°	5.4	17.9	35.7	51.8	48.2	78.5	80.3	89.3	58.9
3.6	87.5°	3.6	10.7	21.4	30.3	26.8	37.5	42.8	48.2	32.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16603.8  
*16116.5*  
15846.9  
15452.4  
14713.3  
13918.9  
12997.8  
12076.6  
11062.7  
10084.4  
9099.0  
8213.5  
7331.7  
6471.2  
5673.3  
4907.4  
4145.2  
3384.7  
2718.8  
2227.9  
1835.1  
1517.4  
1262.1  
1062.2  
897.9  
762.3  
648.0  
551.6  
457.0  
326.7  
232.1  
164.2  
117.8  
82.1  
53.6  
28.6  
0.0

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