

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: P851037

Luminaire Tested: **GLAN-SB8D-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51454 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

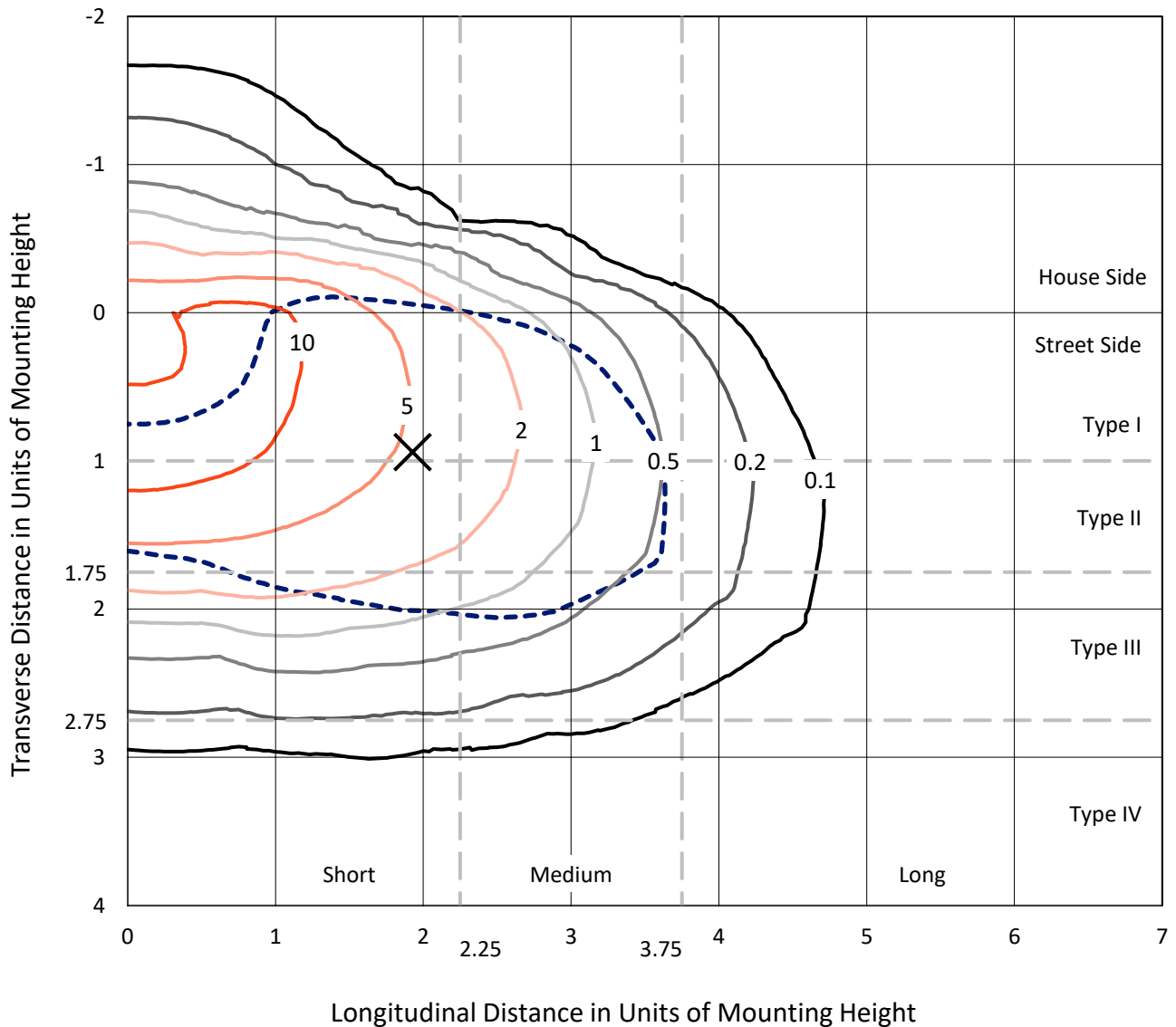
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

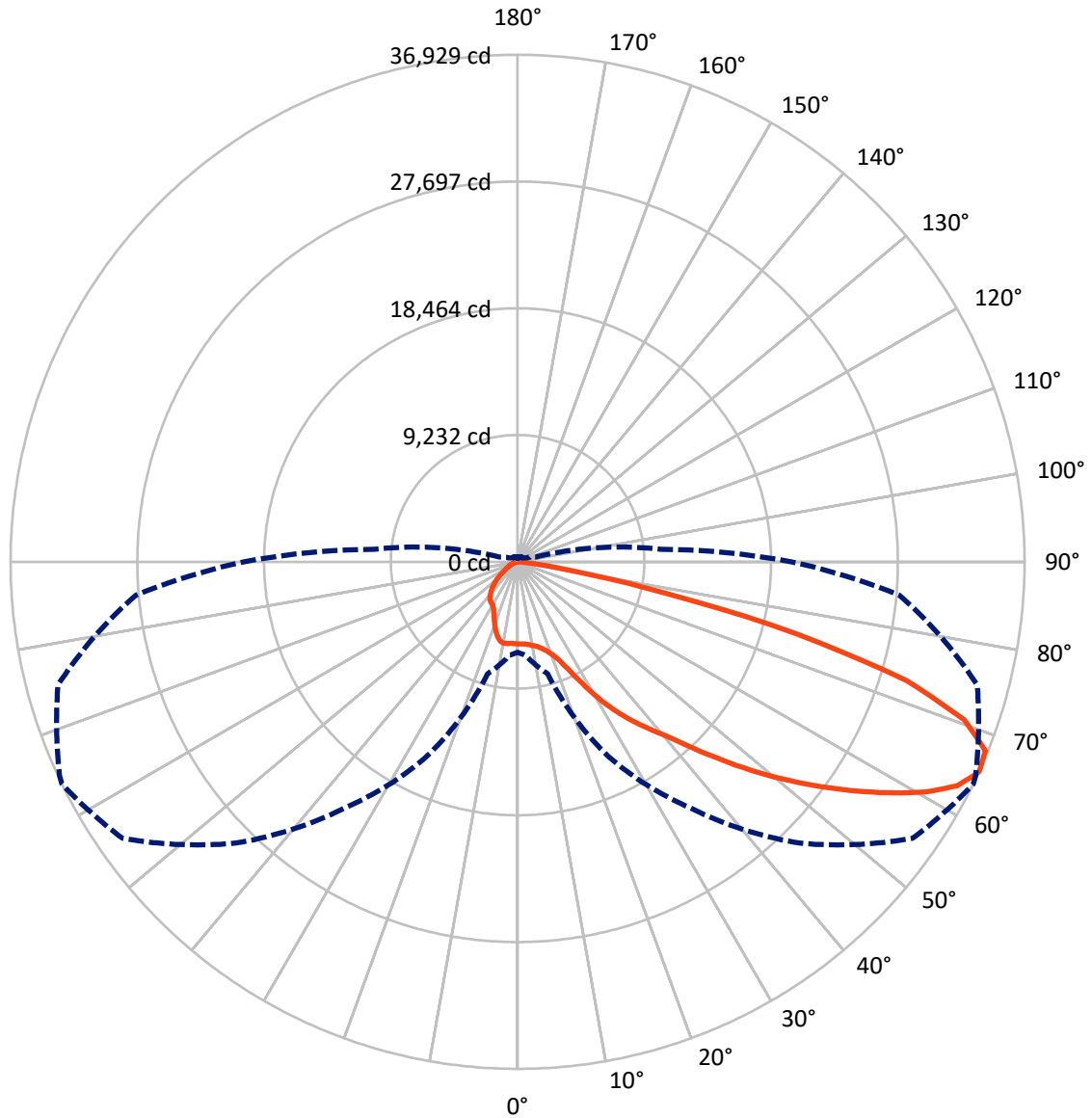
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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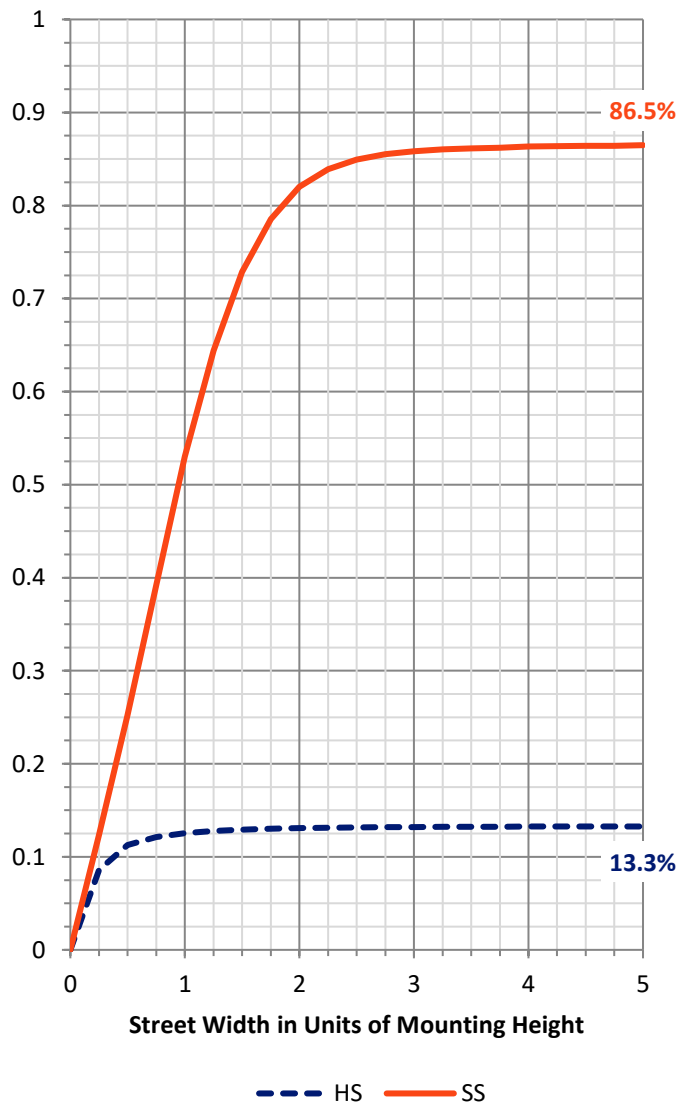
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6881.0	0.0	6881.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	44573.0	0.0	44573.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	51454.0	0.0	51454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.1	1.1
10°-20°	1497.6	2.9
20°-30°	2837.8	5.5
30°-40°	5742.3	11.2
40°-50°	9782.0	19.0
50°-60°	13302.8	25.9
60°-70°	12492.0	24.3
70°-80°	5004.8	9.7
80°-90°	242.5	0.5
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°	51454.0	100.0
0°-180°	51454.0	100.0

Coefficient of Utilization



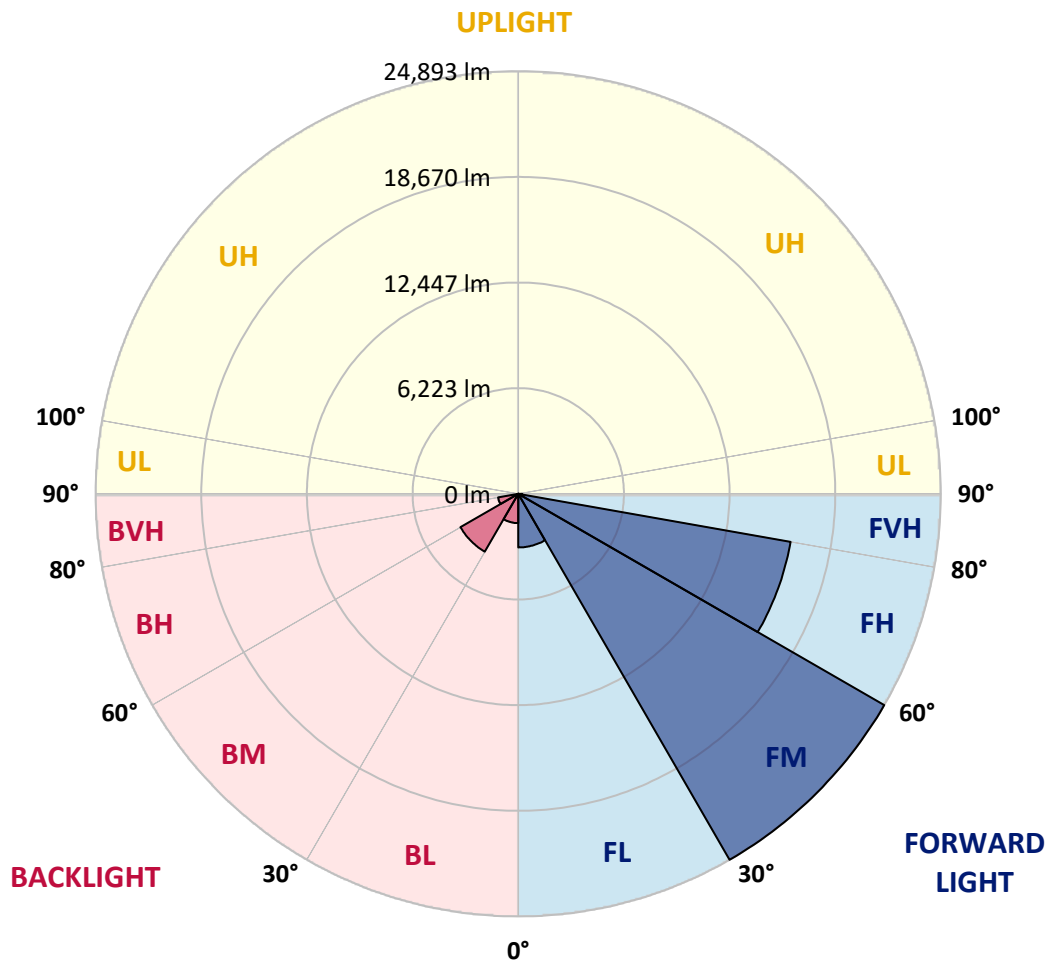
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3159.9	6.1			
FM (30°-60°)	24893.4	48.4			
FH (60°-80°)	16289.2	31.7			G5
FVH (80°-90°)	230.6	0.4			G3/500
BL (0°-30°)	1727.6	3.4	B3/2500		
BM (30°-60°)	3933.8	7.6	B3/5000		
BH (60°-80°)	1207.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.8	0.0			G1/100
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°	64°	65°	75°
0°	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6
2.5°	5963.9	6005.3	5995.0	5984.6	5981.2	5988.1	5991.5	5988.1	5988.1	5988.1
5°	5850.1	5884.6	5884.6	5908.7	5943.2	5984.6	6015.7	6022.6	6029.5	6039.8
7.5°	5632.8	5660.4	5681.1	5760.4	5846.7	5957.0	6050.2	6098.5	6105.4	6143.3
10°	5484.5	5519.0	5553.5	5636.2	5760.4	5926.0	6084.7	6201.9	6219.2	6308.9
12.5°	5477.6	5512.1	5556.9	5646.6	5791.5	5967.4	6160.6	6329.6	6360.6	6491.7
15°	5550.0	5591.4	5632.8	5743.2	5898.4	6112.3	6319.2	6529.6	6560.7	6746.9
17.5°	5698.3	5753.5	5784.6	5895.0	6060.5	6298.5	6571.0	6812.5	6840.1	7057.4
20°	5991.5	6057.1	6067.4	6157.1	6319.2	6574.5	6898.7	7198.8	7233.3	7481.7
22.5°	6598.6	6691.8	6609.0	6653.8	6798.7	7053.9	7405.8	7785.2	7833.5	8116.3
25°	7667.9	7799.0	7585.1	7509.3	7571.3	7836.9	8278.5	8757.9	8813.1	9040.8
27.5°	9768.6	9599.6	9275.3	8958.0	8771.7	8923.5	9420.2	10013.5	10082.5	10303.2
30°	12076.2	11927.9	11489.8	10786.1	10344.6	10320.5	10779.2	11441.5	11520.9	11731.3
32.5°	14387.3	14245.8	13769.8	12904.0	12138.3	11758.9	12076.2	12810.9	12852.3	12986.8
35°	16660.4	16515.5	16039.5	15153.0	14211.4	13349.0	13286.9	14114.8	14128.6	14270.0
37.5°	18947.3	18826.6	18319.5	17450.3	16522.4	15332.4	14756.3	15349.6	15366.9	15504.9
40°	20578.9	20630.6	20282.2	19609.6	18812.8	17512.4	16405.1	16663.8	16560.4	16791.5
42.5°	21979.3	22082.8	21779.2	21441.2	20979.0	19833.8	18447.2	18402.3	18236.8	18360.9
45°	23190.0	23276.3	23003.8	22924.4	22914.1	22110.4	20678.9	20409.8	20178.7	20154.6
47.5°	23635.0	23800.6	23917.8	24183.4	24700.8	24362.8	22986.5	22569.1	22310.4	22120.7
50°	23804.0	23979.9	24380.1	25152.7	26377.2	26522.1	25283.8	24814.7	24497.3	24152.4
52.5°	23576.4	23890.2	24428.3	25728.8	27505.2	28253.7	27487.9	27077.5	26715.3	26153.0
55°	22234.6	22548.4	23648.8	25721.9	28067.4	29467.9	29571.3	29388.5	28981.5	28095.0
57.5°	19406.1	19871.7	21613.7	24845.7	28057.1	30513.0	31613.4	31744.4	31289.1	30019.8
60°	15487.6	16118.8	18243.6	22903.7	27191.3	31078.7	33403.6	34059.0	33576.0	31916.9
62.5°	10806.8	11538.1	13549.1	19861.4	25211.4	30671.7	34710.9	35921.6	35556.0	33614.0
65°	6591.7	6826.3	8447.5	15629.0	21844.8	28967.7	35114.5	36928.8	36808.1	34652.2
67.5°	4391.0	4587.6	5053.3	10717.2	16957.0	25563.2	34148.6	36752.9	36787.4	34483.2
70°	2645.7	2814.7	3118.2	6233.0	10989.7	20233.9	31158.0	34510.8	34710.9	32223.9
72.5°	1090.0	1203.8	1479.8	2825.0	5691.4	12842.0	24811.2	29630.0	30095.6	27094.7
75°	617.4	676.1	869.2	1417.7	2469.7	5984.6	15028.8	21034.2	21720.6	18674.8
77.5°	410.5	438.1	562.2	917.5	1390.1	2042.0	6422.7	10958.6	12269.4	10199.7
80°	275.9	300.1	386.3	614.0	903.7	876.1	2045.5	4059.9	4994.7	3504.5
82.5°	186.3	189.7	275.9	403.6	572.6	424.3	603.6	1262.5	1586.7	1014.1
85°	106.9	103.5	203.5	234.6	255.3	175.9	182.8	379.4	496.7	427.7
87.5°	13.8	20.7	79.3	62.1	34.5	37.9	37.9	65.5	96.6	103.5
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°
5984.6	0°	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6	5984.6
5991.5	2.5°	5991.5	5988.1	5977.7	5967.4	5943.2	5929.4	5936.3	5929.4	5926.0	5929.4
6036.4	5°	6036.4	6026.0	5998.4	5963.9	5915.6	5857.0	5819.1	5763.9	5712.1	5681.1
6157.1	7.5°	6157.1	6146.8	6108.8	6012.2	5857.0	5612.1	5387.9	5191.3	5043.0	4956.7
6350.3	10°	6350.3	6333.0	6274.4	6060.5	5653.5	5118.8	4673.9	4304.8	4063.3	3949.5
6577.9	12.5°	6577.9	6557.2	6453.7	6015.7	5267.2	4432.4	3818.4	3408.0	3183.8	3083.7
6840.1	15°	6847.0	6819.4	6615.9	5801.8	4704.9	3673.6	3111.3	2804.3	2659.5	2569.8
7174.7	17.5°	7181.6	7133.3	6736.6	5481.0	4094.4	3094.1	2676.7	2445.6	2318.0	2231.7
7612.7	20°	7616.2	7536.8	6833.2	5098.1	3532.1	2728.4	2383.5	2190.3	2093.8	2017.9
8233.6	22.5°	8223.3	8109.4	6950.5	4684.2	3135.5	2476.6	2166.2	2024.8	1945.4	1859.2
9099.4	25°	8975.2	8840.7	7095.3	4301.3	2863.0	2259.3	2007.5	1890.2	1797.1	1697.1
10234.2	27.5°	10027.3	9785.8	7267.8	3987.5	2628.4	2073.1	1862.7	1731.6	1624.6	1541.9
11520.9	30°	11200.1	10803.4	7419.6	3797.7	2414.5	1900.6	1672.9	1541.9	1441.8	1383.2
12676.4	32.5°	12310.8	11772.7	7519.6	3715.0	2221.4	1704.0	1466.0	1324.6	1248.7	1231.4
13807.8	35°	13359.4	12648.8	7509.3	3635.6	2048.9	1507.4	1262.5	1117.6	1059.0	1069.3
15025.4	37.5°	14566.6	13583.6	7436.8	3511.4	1907.5	1328.0	1086.5	958.9	907.2	910.6
16505.2	40°	15970.5	14663.2	7392.0	3276.9	1752.3	1162.4	941.7	838.2	800.3	786.5
18064.3	42.5°	17467.5	15708.4	7398.9	3011.3	1559.1	1014.1	841.6	755.4	720.9	710.6
19799.3	45°	18971.5	16705.2	7409.2	2735.3	1355.6	900.3	769.2	696.8	676.1	662.3
21558.5	47.5°	20385.7	17553.8	7216.1	2438.7	1155.5	814.0	710.6	662.3	645.0	627.8
23324.6	50°	21703.4	18119.5	6750.4	2093.8	996.9	745.1	665.7	631.2	614.0	596.7
24925.1	52.5°	22727.8	18209.2	5981.2	1738.5	886.5	693.3	638.1	607.1	586.4	569.1
26218.6	55°	23183.1	17646.9	4887.7	1407.3	800.3	648.5	610.5	579.5	555.3	538.1
27236.1	57.5°	23065.9	16463.8	3811.5	1131.4	717.5	603.6	576.0	555.3	527.8	500.2
28060.5	60°	22489.8	14880.5	2873.3	941.7	641.6	555.3	538.1	520.9	482.9	441.5
28377.9	62.5°	21492.9	12890.2	2048.9	779.6	558.8	500.2	493.3	479.5	424.3	348.4
27908.7	65°	19968.3	10472.2	1379.7	648.5	479.5	438.1	441.5	417.4	344.9	258.7
26191.0	67.5°	17740.0	7657.6	883.0	531.2	400.1	365.6	369.1	355.3	293.2	220.8
22934.8	70°	14901.2	5070.6	576.0	403.6	320.8	282.8	303.5	307.0	248.4	179.4
17602.1	72.5°	10924.1	2994.0	403.6	300.1	234.6	196.6	248.4	255.3	200.1	134.5
10589.5	75°	6226.1	1421.1	303.5	217.3	144.9	138.0	193.2	193.2	138.0	89.7
4584.2	77.5°	2614.6	593.3	213.9	141.4	82.8	79.3	131.1	120.7	69.0	41.4
1117.6	80°	755.4	265.6	113.8	69.0	34.5	31.0	51.7	37.9	17.2	6.9
424.3	82.5°	296.6	117.3	44.8	27.6	13.8	13.8	6.9	0.0	0.0	0.0
241.5	85°	175.9	48.3	20.7	10.3	3.4	0.0	0.0	0.0	0.0	0.0
51.7	87.5°	44.8	10.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
5984.6
5943.2
5688.0
4960.2
3939.2
3073.4
2573.2
2224.8
2004.1
1845.4
1686.7
1524.6
1372.8
1241.8
1069.3
924.4
783.0
707.1
662.3
627.8
596.7
565.7
534.7
496.7
434.6
341.5
251.8
210.4
172.5
127.6
82.8
41.4
6.9
0.0
0.0
0.0
0.0

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