

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: P848187

Luminaire Tested: **GLAN-SB4C-850-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848187
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-SB4C-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA 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: 20212 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

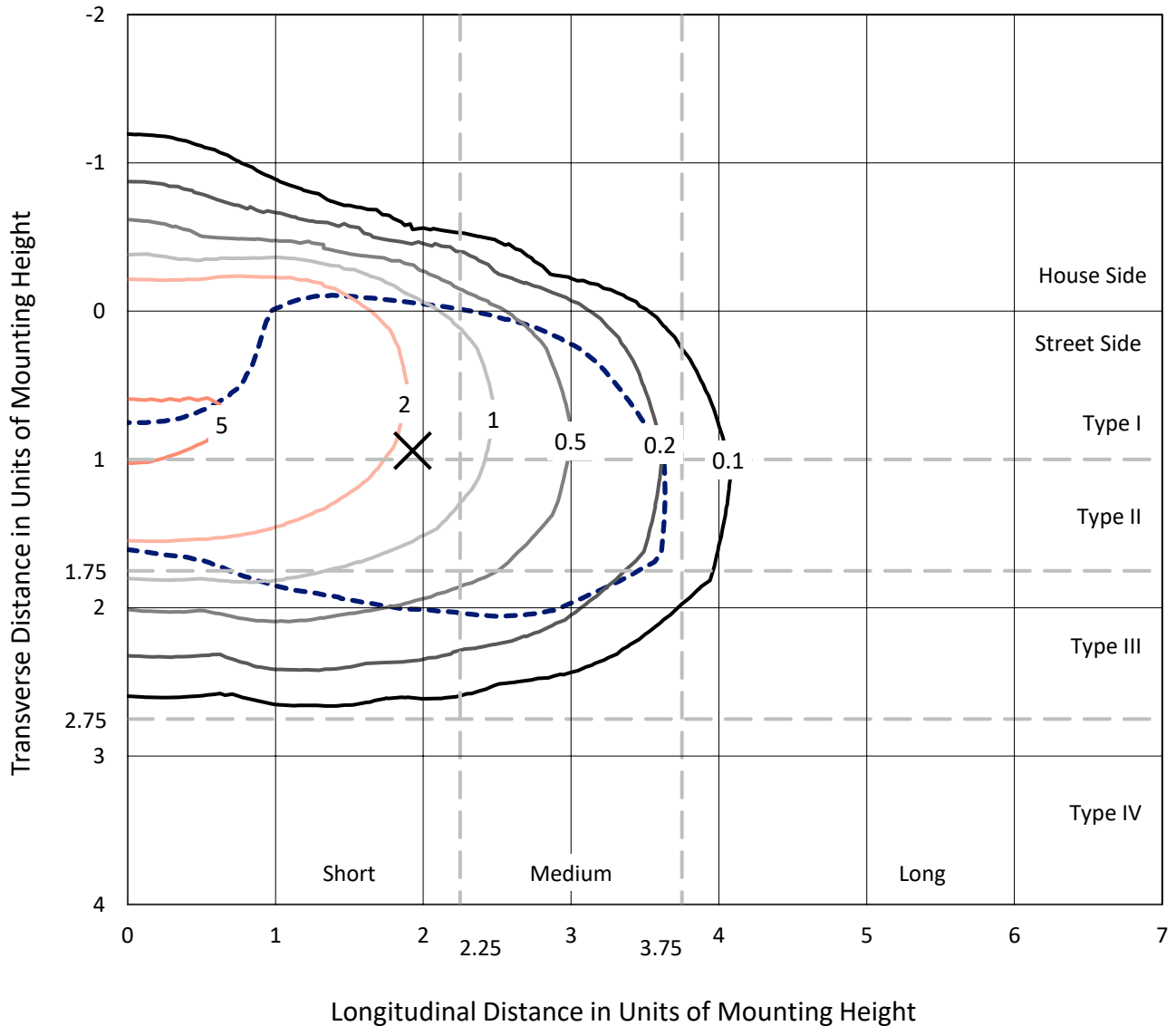
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

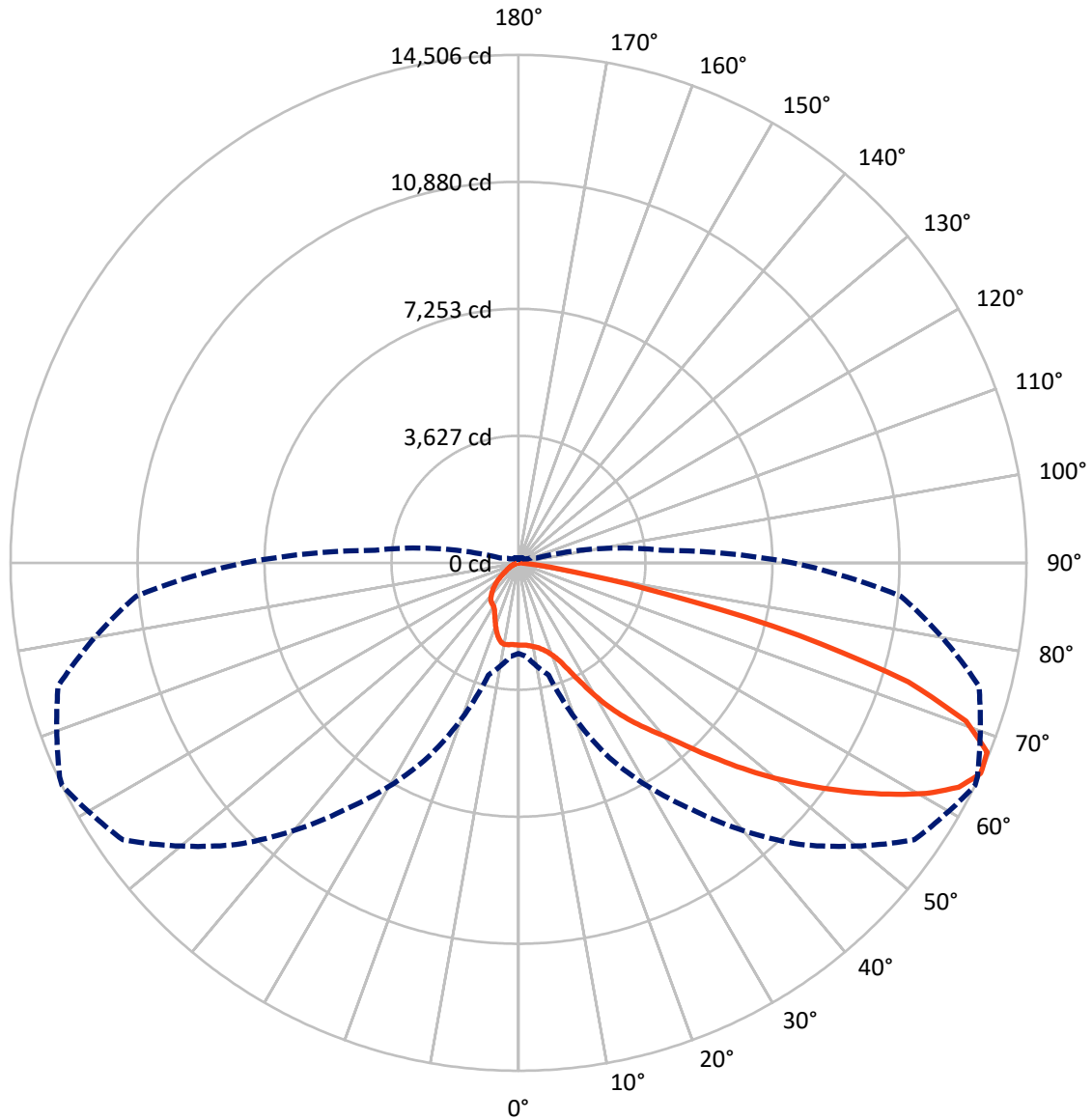
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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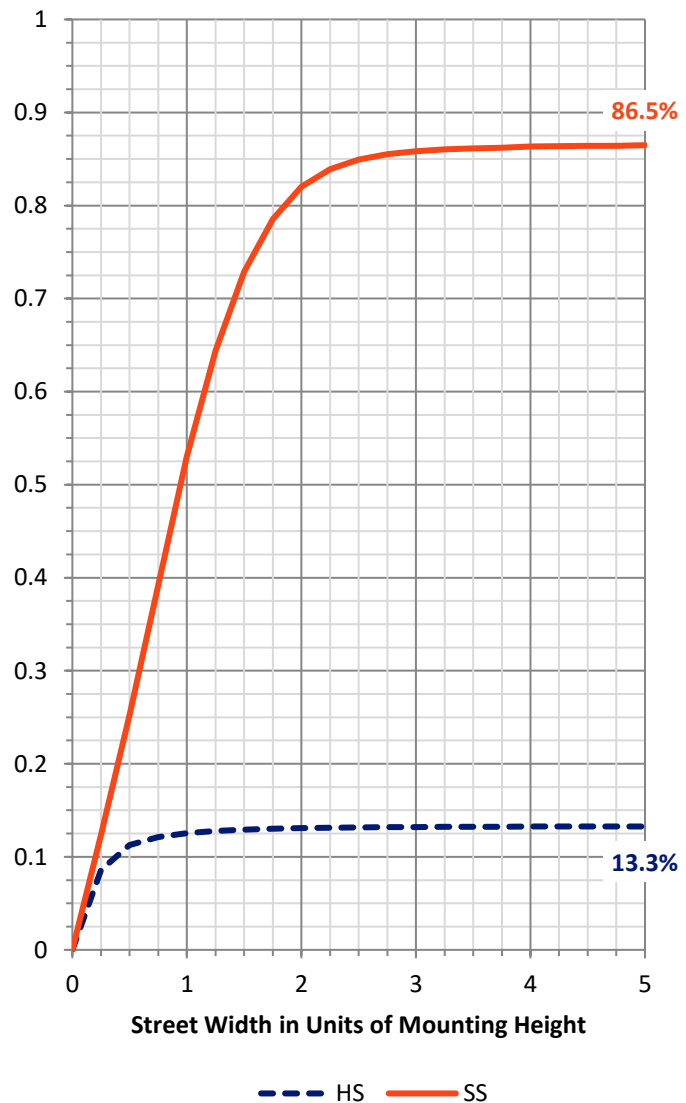
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2703.0	0.0	2703.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17509.0	0.0	17509.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	20212.0	0.0	20212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	1.1
10°-20°	588.3	2.9
20°-30°	1114.7	5.5
30°-40°	2255.7	11.2
40°-50°	3842.6	19.0
50°-60°	5225.6	25.9
60°-70°	4907.1	24.3
70°-80°	1966.0	9.7
80°-90°	95.2	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°	20212.0	100.0
0°-180°	20212.0	100.0

Coefficient of Utilization



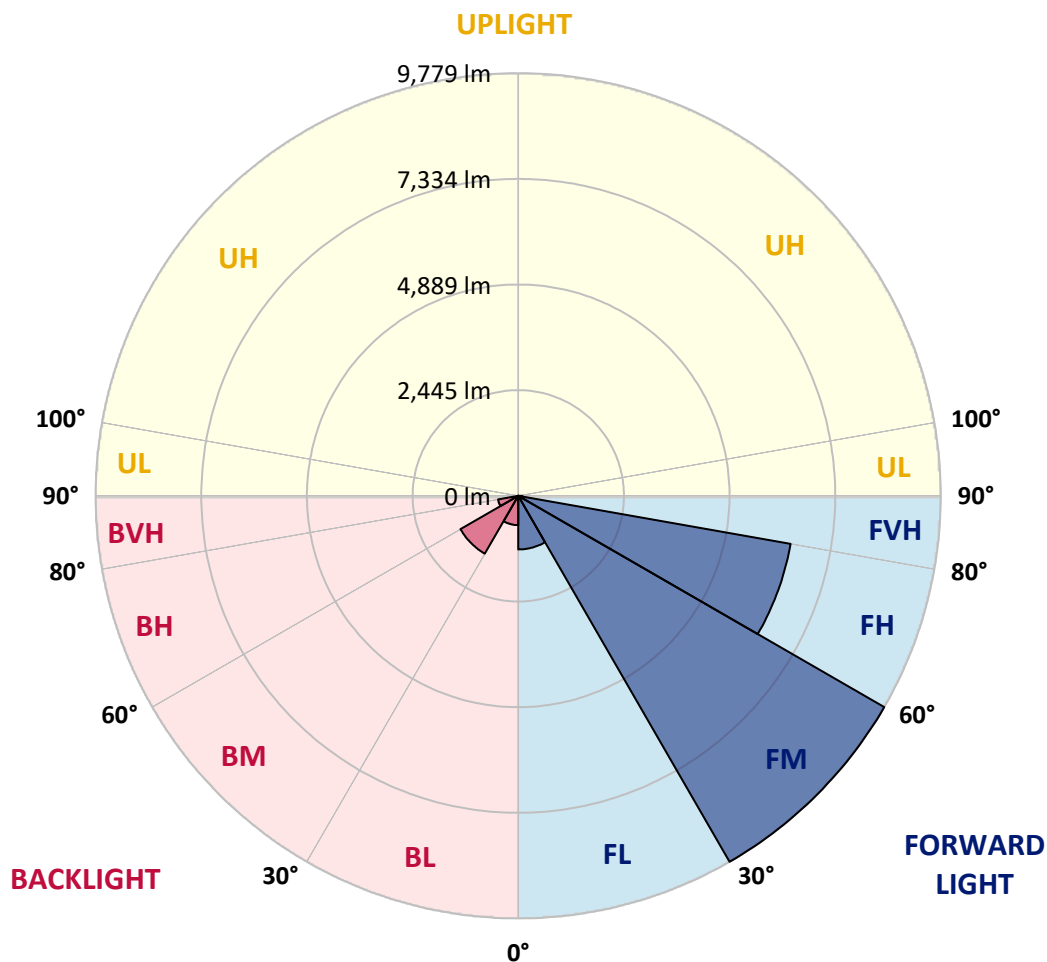
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.2	6.1			
FM (30°-60°)	9778.5	48.4			
FH (60°-80°)	6398.7	31.7			G3/7500
FVH (80°-90°)	90.6	0.4			G1/100
BL (0°-30°)	678.6	3.4	B2/1000		
BM (30°-60°)	1545.3	7.6	B2/2500		
BH (60°-80°)	474.4	2.3	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9
2.5°	2342.7	2359.0	2354.9	2350.9	2349.5	2352.2	2353.6	2352.2	2352.2	2352.2
5°	2298.0	2311.6	2311.6	2321.1	2334.6	2350.9	2363.1	2365.8	2368.5	2372.5
7.5°	2212.7	2223.5	2231.6	2262.8	2296.7	2340.0	2376.6	2395.6	2398.3	2413.2
10°	2154.4	2167.9	2181.5	2214.0	2262.8	2327.8	2390.2	2436.2	2443.0	2478.2
12.5°	2151.7	2165.2	2182.8	2218.1	2275.0	2344.1	2420.0	2486.4	2498.6	2550.0
15°	2180.1	2196.4	2212.7	2256.0	2317.0	2401.0	2482.3	2565.0	2577.1	2650.3
17.5°	2238.4	2260.1	2272.3	2315.6	2380.7	2474.2	2581.2	2676.1	2686.9	2772.3
20°	2353.6	2379.3	2383.4	2418.6	2482.3	2582.6	2709.9	2827.8	2841.4	2938.9
22.5°	2592.0	2628.6	2596.1	2613.7	2670.6	2770.9	2909.1	3058.2	3077.1	3188.2
25°	3012.1	3063.6	2979.6	2949.8	2974.1	3078.5	3251.9	3440.3	3461.9	3551.4
27.5°	3837.3	3770.9	3643.5	3518.8	3445.7	3505.3	3700.4	3933.5	3960.6	4047.3
30°	4743.7	4685.5	4513.4	4237.0	4063.5	4054.1	4234.3	4494.4	4525.6	4608.2
32.5°	5651.6	5596.0	5409.0	5068.9	4768.1	4619.1	4743.7	5032.3	5048.6	5101.4
35°	6544.5	6487.6	6300.6	5952.4	5582.5	5243.7	5219.3	5544.5	5549.9	5605.5
37.5°	7442.8	7395.4	7196.2	6854.8	6490.3	6022.8	5796.5	6029.6	6036.4	6090.6
40°	8083.7	8104.0	7967.2	7703.0	7390.0	6879.2	6444.2	6545.8	6505.2	6596.0
42.5°	8633.8	8674.5	8555.3	8422.5	8240.9	7791.1	7246.4	7228.7	7163.7	7212.5
45°	9109.4	9143.3	9036.3	9005.1	9001.0	8685.3	8123.0	8017.3	7926.5	7917.1
47.5°	9284.2	9349.3	9395.3	9499.7	9702.9	9570.1	9029.5	8865.5	8763.9	8689.4
50°	9350.6	9419.7	9576.9	9880.4	10361.4	10418.3	9931.9	9747.6	9623.0	9487.5
52.5°	9261.2	9384.5	9595.9	10106.7	10804.5	11098.5	10797.7	10636.5	10494.2	10273.3
55°	8734.1	8857.4	9289.6	10104.0	11025.4	11575.5	11616.1	11544.3	11384.4	11036.2
57.5°	7623.0	7806.0	8490.2	9759.8	11021.3	11986.0	12418.3	12469.7	12290.9	11792.3
60°	6083.8	6331.8	7166.4	8997.0	10681.2	12208.2	13121.5	13378.9	13189.2	12537.5
62.5°	4245.1	4532.4	5322.3	7801.9	9903.4	12048.4	13635.0	14110.6	13967.0	13204.1
65°	2589.3	2681.5	3318.3	6139.3	8581.0	11379.0	13793.6	14506.3	14458.8	13612.0
67.5°	1724.9	1802.1	1985.0	4209.9	6661.0	10041.7	13414.2	14437.2	14450.7	13545.6
70°	1039.3	1105.7	1224.9	2448.4	4316.9	7948.2	12239.4	13556.4	13635.0	12658.1
72.5°	428.2	472.9	581.3	1109.7	2235.7	5044.5	9746.3	11639.2	11822.1	10643.3
75°	242.5	265.6	341.5	556.9	970.2	2350.9	5903.6	8262.6	8532.2	7335.8
77.5°	161.2	172.1	220.9	360.4	546.1	802.1	2522.9	4304.7	4819.6	4006.6
80°	108.4	117.9	151.8	241.2	355.0	344.2	803.5	1594.8	1962.0	1376.6
82.5°	73.2	74.5	108.4	158.5	224.9	166.7	237.1	495.9	623.3	398.4
85°	42.0	40.6	79.9	92.1	100.3	69.1	71.8	149.0	195.1	168.0
87.5°	5.4	8.1	31.2	24.4	13.5	14.9	14.9	25.7	37.9	40.6
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°
2350.9	0°	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9
2353.6	2.5°	2353.6	2352.2	2348.2	2344.1	2334.6	2329.2	2331.9	2329.2	2327.8	2329.2
2371.2	5°	2371.2	2367.1	2356.3	2342.7	2323.8	2300.7	2285.8	2264.1	2243.8	2231.6
2418.6	7.5°	2418.6	2414.5	2399.6	2361.7	2300.7	2204.5	2116.5	2039.2	1981.0	1947.1
2494.5	10°	2494.5	2487.7	2464.7	2380.7	2220.8	2010.8	1836.0	1691.0	1596.1	1551.4
2583.9	12.5°	2583.9	2575.8	2535.1	2363.1	2069.0	1741.1	1499.9	1338.7	1250.6	1211.3
2686.9	15°	2689.6	2678.8	2598.8	2279.1	1848.2	1443.0	1222.2	1101.6	1044.7	1009.4
2818.3	17.5°	2821.0	2802.1	2646.2	2153.0	1608.3	1215.4	1051.5	960.7	910.5	876.7
2990.4	20°	2991.8	2960.6	2684.2	2002.6	1387.5	1071.8	936.3	860.4	822.5	792.7
3234.3	22.5°	3230.2	3185.5	2730.3	1840.0	1231.7	972.9	850.9	795.4	764.2	730.3
3574.4	25°	3525.6	3472.8	2787.2	1689.6	1124.6	887.5	788.6	742.5	705.9	666.6
4020.2	27.5°	3938.9	3844.0	2854.9	1566.3	1032.5	814.3	731.7	680.2	638.2	605.7
4525.6	30°	4399.6	4243.8	2914.5	1491.8	948.5	746.6	657.2	605.7	566.4	543.3
4979.5	32.5°	4835.9	4624.5	2953.8	1459.3	872.6	669.4	575.9	520.3	490.5	483.7
5423.9	35°	5247.8	4968.7	2949.8	1428.1	804.8	592.1	495.9	439.0	416.0	420.0
5902.2	37.5°	5722.0	5335.9	2921.3	1379.4	749.3	521.7	426.8	376.7	356.4	357.7
6483.5	40°	6273.5	5760.0	2903.7	1287.2	688.3	456.6	369.9	329.3	314.4	308.9
7096.0	42.5°	6861.5	6170.5	2906.4	1182.9	612.4	398.4	330.6	296.7	283.2	279.1
7777.5	45°	7452.3	6562.1	2910.5	1074.5	532.5	353.6	302.2	273.7	265.6	260.2
8468.5	47.5°	8007.8	6895.4	2834.6	958.0	453.9	319.8	279.1	260.2	253.4	246.6
9162.3	50°	8525.4	7117.6	2651.7	822.5	391.6	292.7	261.5	248.0	241.2	234.4
9791.0	52.5°	8927.9	7152.9	2349.5	682.9	348.2	272.3	250.7	238.5	230.3	223.6
10299.1	55°	9106.7	6932.0	1920.0	552.8	314.4	254.7	239.8	227.6	218.1	211.4
10698.8	57.5°	9060.7	6467.3	1497.2	444.4	281.8	237.1	226.3	218.1	207.3	196.5
11022.6	60°	8834.4	5845.3	1128.7	369.9	252.0	218.1	211.4	204.6	189.7	173.4
11147.3	62.5°	8442.8	5063.5	804.8	306.2	219.5	196.5	193.8	188.3	166.7	136.9
10963.0	65°	7843.9	4113.7	542.0	254.7	188.3	172.1	173.4	164.0	135.5	101.6
10288.3	67.5°	6968.6	3008.0	346.9	208.7	157.2	143.6	145.0	139.6	115.2	86.7
9009.2	70°	5853.5	1991.8	226.3	158.5	126.0	111.1	119.2	120.6	97.6	70.5
6914.4	72.5°	4291.2	1176.1	158.5	117.9	92.1	77.2	97.6	100.3	78.6	52.8
4159.7	75°	2445.7	558.2	119.2	85.4	56.9	54.2	75.9	75.9	54.2	35.2
1800.7	77.5°	1027.1	233.1	84.0	55.6	32.5	31.2	51.5	47.4	27.1	16.3
439.0	80°	296.7	104.3	44.7	27.1	13.5	12.2	20.3	14.9	6.8	2.7
166.7	82.5°	116.5	46.1	17.6	10.8	5.4	5.4	2.7	0.0	0.0	0.0
94.8	85°	69.1	19.0	8.1	4.1	1.4	0.0	0.0	0.0	0.0	0.0
20.3	87.5°	17.6	4.1	2.7	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

180°
2350.9
2334.6
2234.3
1948.4
1547.4
1207.3
1010.8
874.0
787.2
724.9
662.6
598.9
539.3
487.8
420.0
363.1
307.6
277.8
260.2
246.6
234.4
222.2
210.0
195.1
170.7
134.1
98.9
82.7
67.7
50.1
32.5
16.3
2.7
0.0
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0.0
0.0

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