

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: P851038

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

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65651 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

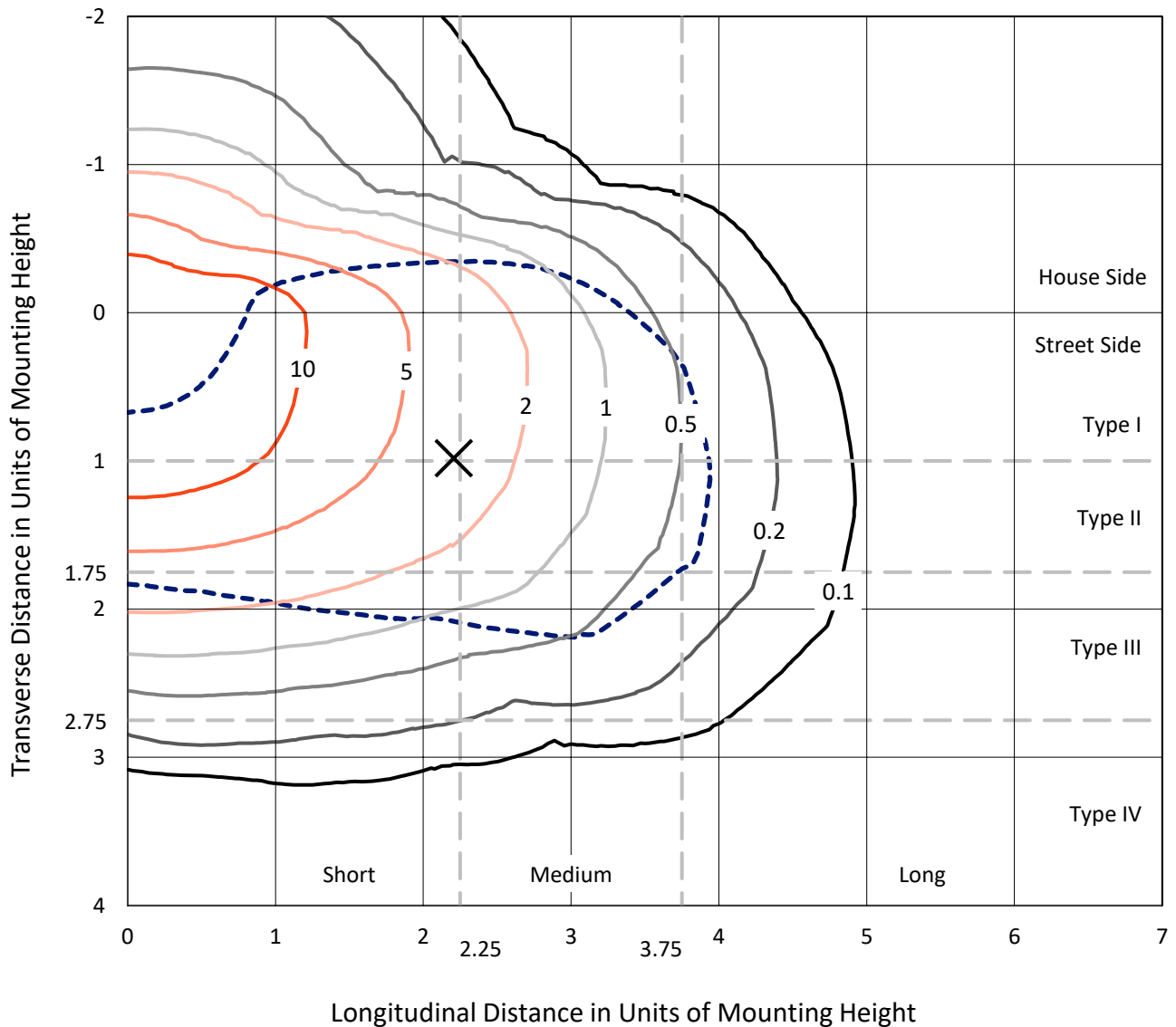
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

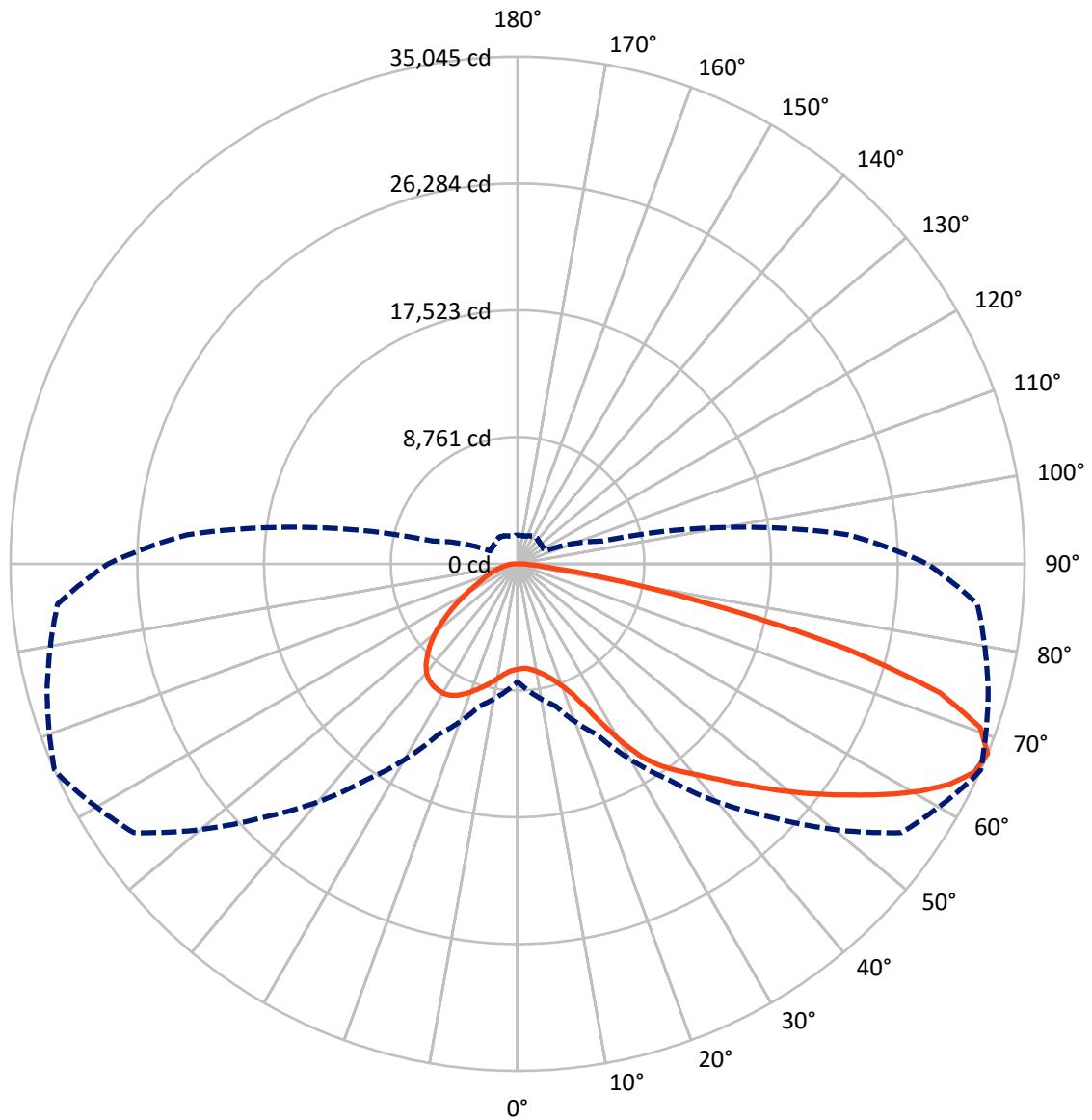
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16323.9	0.0	16323.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	49327.1	0.0	49327.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	65651.0	0.0	65651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.9	1.1
10°-20°	2385.2	3.6
20°-30°	4597.3	7.0
30°-40°	8060.8	12.3
40°-50°	11983.8	18.3
50°-60°	15190.6	23.1
60°-70°	14863.6	22.6
70°-80°	7090.1	10.8
80°-90°	757.7	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°	65651.0	100.0
0°-180°	65651.0	100.0

Coefficient of Utilization

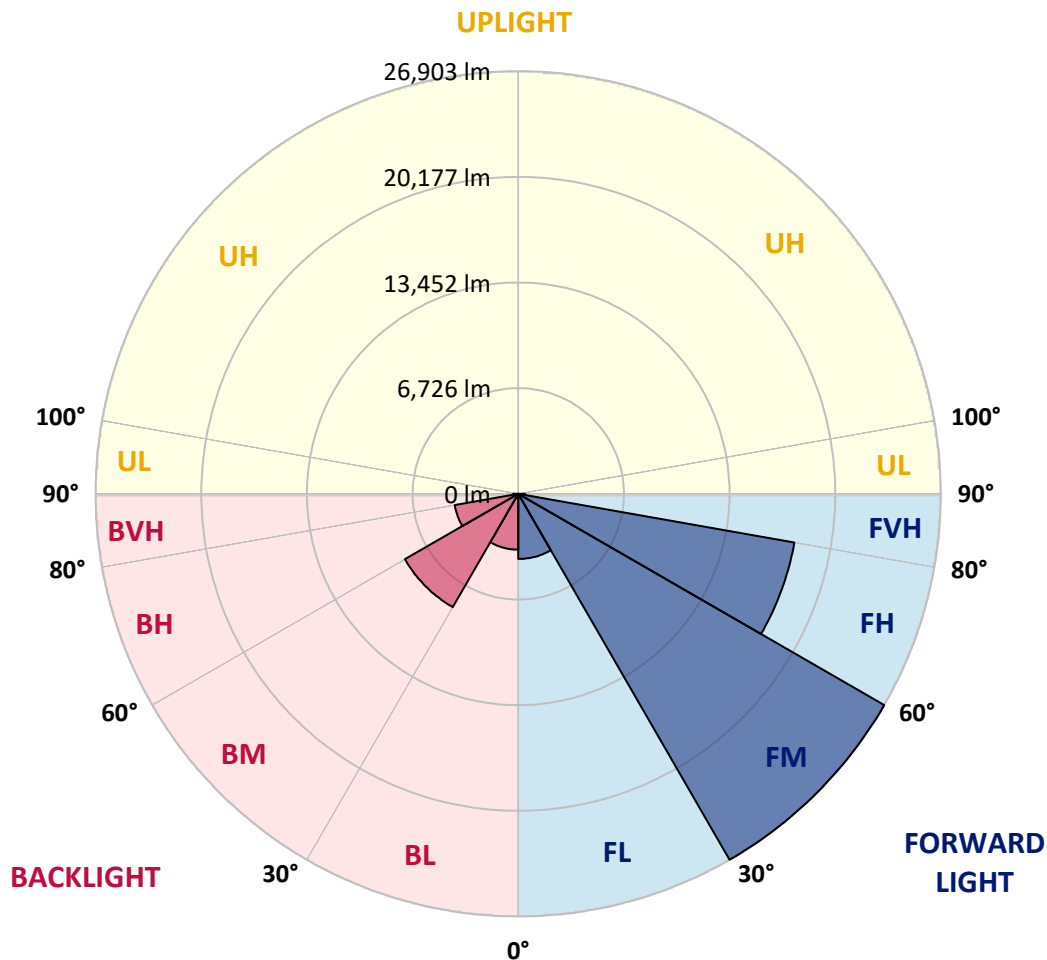


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4148.5	6.3			
FM (30°-60°)	26903.2	41.0			
FH (60°-80°)	17845.7	27.2			G5
FVH (80°-90°)	429.6	0.7			G3/500
BL (0°-30°)	3555.9	5.4	B4/5000		
BM (30°-60°)	8331.9	12.7	B4/8500		
BH (60°-80°)	4107.9	6.3	B4/5000		G4/5000
BVH (80°-90°)	328.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6
2.5°	7205.7	7247.1	7236.7	7219.5	7216.0	7222.9	7233.3	7243.6	7240.2	7257.4
5°	7185.0	7226.4	7222.9	7222.9	7236.7	7264.3	7281.6	7298.8	7281.6	7302.3
7.5°	7198.8	7229.8	7243.6	7257.4	7291.9	7343.7	7385.0	7423.0	7402.3	7426.4
10°	7374.7	7398.8	7412.6	7412.6	7436.8	7495.4	7536.8	7605.8	7588.6	7626.5
12.5°	7695.5	7719.6	7719.6	7705.8	7723.1	7761.0	7774.8	7850.7	7819.7	7881.7
15°	8088.7	8137.0	8099.1	8074.9	8081.8	8119.8	8116.3	8174.9	8143.9	8195.6
17.5°	8523.3	8585.4	8523.3	8519.9	8506.1	8547.5	8550.9	8602.7	8547.5	8585.4
20°	9037.3	9123.5	9071.8	9089.0	9058.0	9075.2	9092.5	9168.4	9082.1	9109.7
22.5°	9761.6	9865.1	9809.9	9875.5	9854.8	9841.0	9837.5	9972.1	9837.5	9847.9
25°	10817.1	10941.3	10844.7	10934.4	10934.4	10979.3	11031.0	11203.5	10979.3	10913.7
27.5°	12376.2	12500.4	12310.7	12365.9	12348.6	12459.0	12403.8	12831.6	12590.1	12483.2
30°	14252.7	14473.4	14114.7	14100.9	14083.7	14259.6	14338.9	14621.8	14376.9	14269.9
32.5°	16280.9	16512.0	16084.3	15960.1	15894.6	16001.5	15936.0	16163.6	15994.6	15829.0
35°	18426.4	18654.0	18247.0	18005.6	17743.4	17519.2	17284.7	17343.3	17184.6	16932.8
37.5°	20454.6	20872.0	20440.8	20182.1	19699.2	19261.1	18605.8	18333.3	18184.9	17953.8
40°	22520.8	22758.8	22431.1	22210.3	21686.0	20999.6	19951.0	19375.0	19174.9	18950.7
42.5°	24041.9	24269.6	24093.7	23941.9	23531.4	22734.6	21379.0	20658.1	20368.4	20116.6
45°	25249.2	25418.2	25307.8	25363.0	25187.1	24414.5	22858.8	22034.4	21734.3	21427.3
47.5°	25735.5	25914.9	26090.8	26418.5	26718.6	26149.5	24448.9	23524.5	23207.2	22893.3
50°	25680.4	25863.2	26373.7	27070.4	28001.8	27812.1	26125.3	25111.2	24818.0	24459.3
52.5°	25238.8	25445.8	26101.2	27260.2	28743.4	29057.3	27832.8	26749.7	26473.7	26046.0
55°	24079.9	24204.0	25187.1	26829.0	28919.3	29926.5	29505.7	28495.0	28219.1	27622.3
57.5°	21930.9	22110.3	23541.8	25666.6	28477.8	30516.3	30975.1	30330.1	30064.5	29205.6
60°	19126.6	19412.9	21051.3	23714.2	27353.3	30512.9	32310.0	32134.1	31913.3	30764.7
62.5°	15953.2	16284.3	17860.7	20954.8	25387.2	29647.1	33144.7	33644.9	33531.1	32203.1
65°	12252.1	12479.7	14049.2	17384.7	22327.6	27787.9	33241.3	34676.2	34696.9	33296.5
67.5°	8157.7	8813.1	10175.6	13045.4	18229.8	24749.0	32392.8	34845.3	35045.3	33672.5
70°	3980.5	4842.9	6177.8	8478.5	13045.4	20089.0	30174.9	33458.6	33903.6	32575.6
72.5°	1652.2	1931.6	2659.4	4184.1	7488.5	13555.9	25718.3	29698.8	30523.2	28864.1
75°	1114.1	1207.3	1521.2	2145.5	3411.4	6684.8	18547.1	22144.8	23472.8	21799.8
77.5°	858.9	917.5	1107.2	1500.5	2028.2	2528.4	9927.2	13345.5	14031.9	12990.2
80°	676.1	720.9	827.8	1093.4	1438.4	1352.1	3383.8	6046.7	6443.4	5405.1
82.5°	586.4	603.6	593.3	741.6	955.5	789.9	1110.7	2231.7	2462.8	1786.8
85°	424.3	472.6	493.3	458.8	507.1	400.1	455.3	789.9	869.2	776.1
87.5°	172.5	255.3	313.9	296.6	186.3	113.8	141.4	231.1	265.6	289.7
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°
7281.6	0°	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6	7281.6
7285.0	2.5°	7288.5	7312.6	7329.9	7350.6	7364.3	7385.0	7426.4	7450.6	7454.0	7471.3
7340.2	5°	7354.0	7388.5	7426.4	7481.6	7543.7	7595.5	7674.8	7730.0	7750.7	7767.9
7474.7	7.5°	7495.4	7543.7	7612.7	7709.3	7799.0	7868.0	7964.5	8030.1	8095.6	8119.8
7688.6	10°	7705.8	7774.8	7874.9	8005.9	8102.5	8192.2	8292.2	8347.4	8412.9	8440.5
7943.8	12.5°	7968.0	8040.4	8171.5	8354.3	8444.0	8506.1	8540.6	8526.8	8540.6	8564.7
8250.8	15°	8268.1	8347.4	8495.7	8692.3	8754.4	8699.2	8623.4	8554.4	8544.0	8550.9
8623.4	17.5°	8623.4	8682.0	8854.5	9020.0	8975.2	8747.5	8582.0	8471.6	8416.4	8399.2
9099.4	20°	9120.1	9120.1	9261.5	9365.0	9064.9	8678.5	8419.8	8240.5	8126.7	8078.4
9747.8	22.5°	9723.7	9668.5	9758.2	9685.8	9047.6	8485.4	8126.7	7816.2	7643.7	7574.8
10655.0	25°	10489.5	10423.9	10399.8	9951.4	8923.5	8178.4	7595.5	7219.5	7067.7	7029.8
11962.3	27.5°	11645.0	11479.4	11165.5	10096.2	8695.8	7695.5	6974.6	6626.2	6540.0	6543.4
13642.2	30°	13183.4	12852.3	12083.0	10120.4	8323.3	7012.5	6339.9	6091.5	6050.1	6067.4
15052.9	32.5°	14608.0	14294.1	13021.3	10010.0	7750.7	6343.3	5770.8	5605.2	5543.1	5563.8
16129.1	35°	15725.6	15639.3	13890.5	9854.8	7047.0	5715.6	5260.2	5118.8	4998.1	4970.5
17143.2	37.5°	16781.1	16746.6	14542.4	9637.5	6350.2	5270.6	4849.8	4663.5	4487.6	4391.0
18264.3	40°	17940.0	17905.5	14970.1	9302.9	5732.8	4884.3	4480.7	4235.8	4018.5	3842.6
19533.6	42.5°	19243.9	19040.4	15173.7	8823.4	5208.5	4556.6	4180.6	3849.5	3563.2	3401.1
20968.6	45°	20668.5	20209.7	15170.2	8212.9	4767.0	4256.5	3859.8	3390.7	3125.1	2973.3
22441.4	47.5°	22179.3	21327.3	14983.9	7536.8	4339.3	3925.4	3363.1	3004.4	2828.5	2735.3
24041.9	50°	23738.4	22372.4	14666.6	6760.7	3901.2	3549.4	3052.7	2807.8	2673.2	2587.0
25628.6	52.5°	25204.4	23321.0	14283.7	5881.1	3456.2	3183.7	2914.7	2725.0	2583.6	2487.0
27167.0	55°	26566.8	24138.5	13742.2	4980.9	3094.1	2938.8	2849.2	2690.5	2528.4	2414.5
28729.6	57.5°	27777.6	24669.7	12807.4	4135.8	2835.4	2769.8	2780.2	2631.8	2445.6	2349.0
30268.0	60°	28784.8	25059.5	11424.2	3352.8	2625.0	2604.3	2673.2	2521.5	2304.2	2193.8
31568.4	62.5°	29388.4	25052.6	9727.1	2745.7	2445.6	2452.5	2531.8	2383.5	2162.7	2059.3
32247.9	65°	29336.7	24438.6	7864.5	2349.0	2273.1	2280.0	2383.5	2231.7	2045.5	1983.4
31906.4	67.5°	28298.4	22941.6	6032.9	2090.3	2083.4	2114.4	2235.2	2128.2	1973.0	1966.1
29871.3	70°	25487.2	19833.7	4346.2	1883.3	1886.8	1931.6	2090.3	2062.7	1935.1	1948.9
25114.7	72.5°	20437.4	15121.9	2918.1	1666.0	1669.5	1741.9	1952.3	2011.0	1897.1	2080.0
17819.3	75°	13611.1	9430.5	1876.4	1434.9	1438.4	1531.5	1831.6	1910.9	1793.7	2073.1
9271.8	77.5°	6540.0	4239.2	1359.0	1207.3	1207.3	1293.5	1583.2	1710.9	1528.1	1610.8
2980.2	80°	2259.3	1593.6	1069.3	972.7	952.0	1010.7	1334.9	1483.2	1317.6	1214.2
972.7	82.5°	889.9	827.8	858.9	755.4	686.4	724.4	1038.3	1224.5	969.3	876.1
548.4	85°	510.5	538.1	607.1	500.2	396.7	445.0	762.3	879.6	731.3	645.0
179.4	87.5°	138.0	189.7	279.4	258.7	179.4	189.7	362.2	486.4	420.8	324.2
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>
7281.6
7467.8
7764.5
8123.2
8454.3
8571.6
8575.1
8423.3
8068.0
7564.4
7036.7
6553.8
6126.0
5591.4
4991.2
4394.5
3859.8
3411.4
2966.4
2714.6
2556.0
2445.6
2369.7
2286.9
2145.5
2028.2
1979.9
1976.5
1945.4
2107.5
2090.3
1476.3
1138.3
872.7
658.8
334.6
0.0

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