

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: P852573

Luminaire Tested: **GLAN-SB4D-827-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32139 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

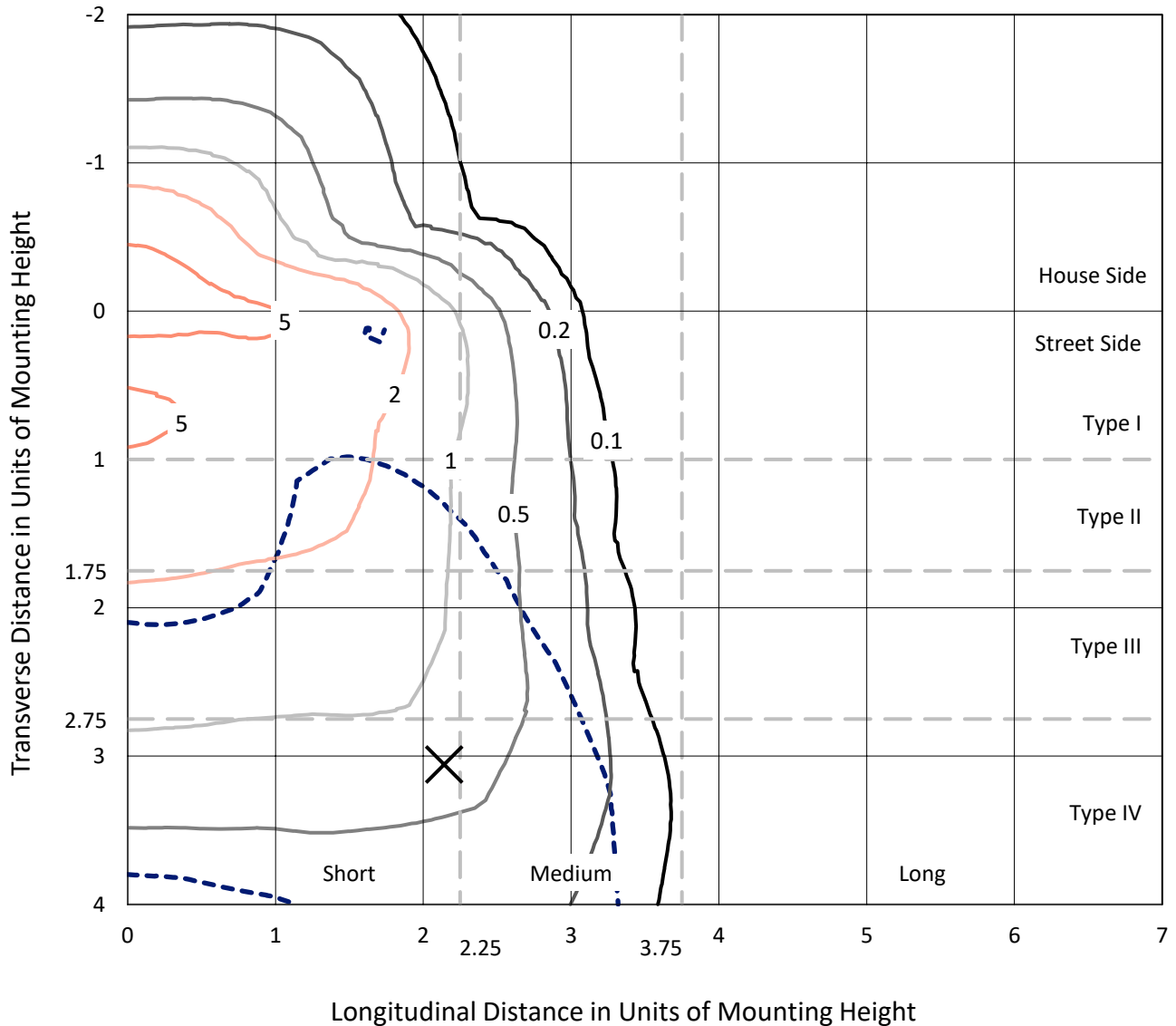
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

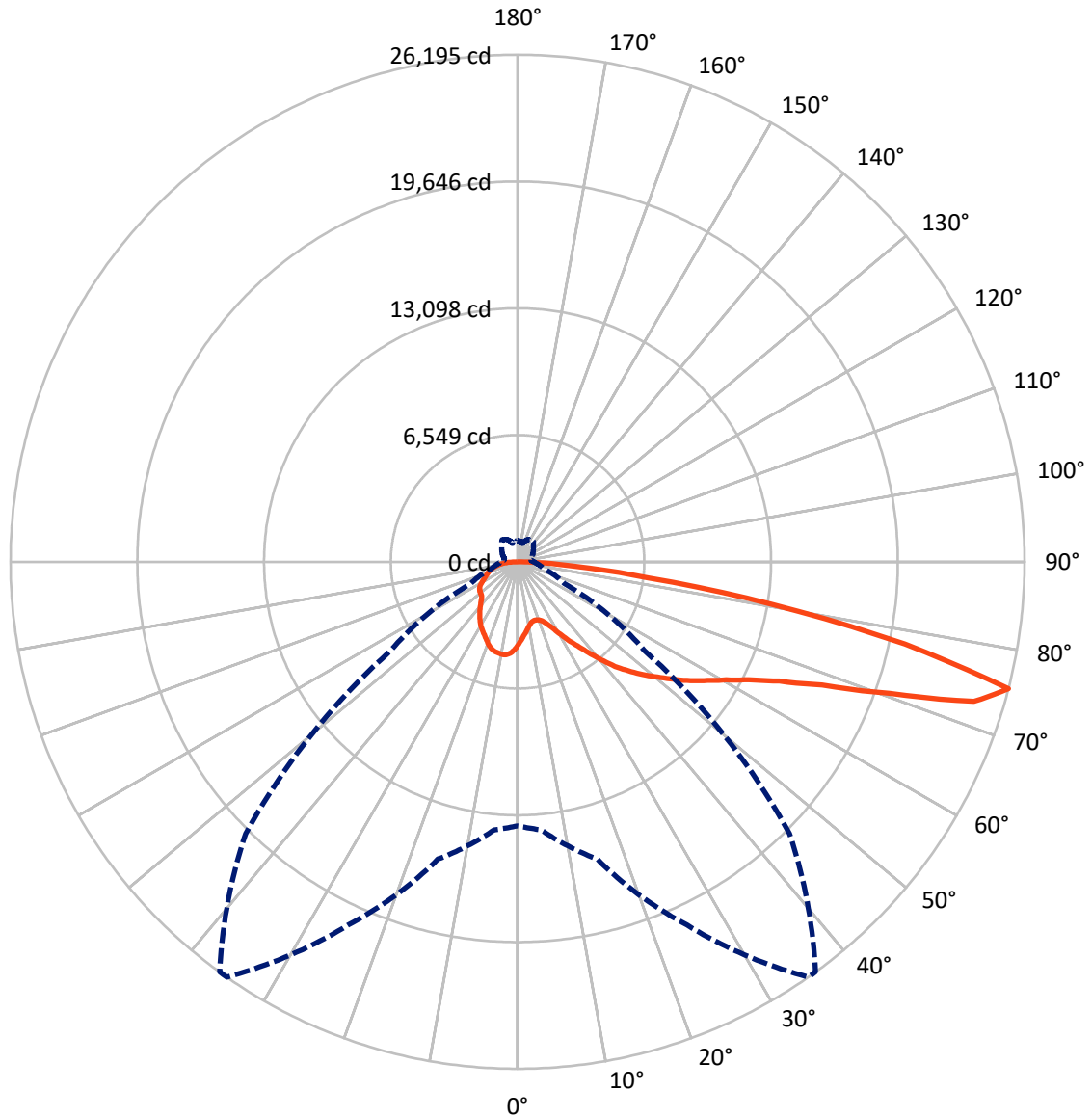
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7648.3	0.0	7648.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24490.7	0.0	24490.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	32139.0	0.0	32139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	1.3
10°-20°	1169.6	3.6
20°-30°	1964.1	6.1
30°-40°	3052.4	9.5
40°-50°	4530.7	14.1
50°-60°	6254.8	19.5
60°-70°	7588.5	23.6
70°-80°	6271.3	19.5
80°-90°	902.0	2.8
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°	32139.0	100.0
0°-180°	32139.0	100.0

Coefficient of Utilization

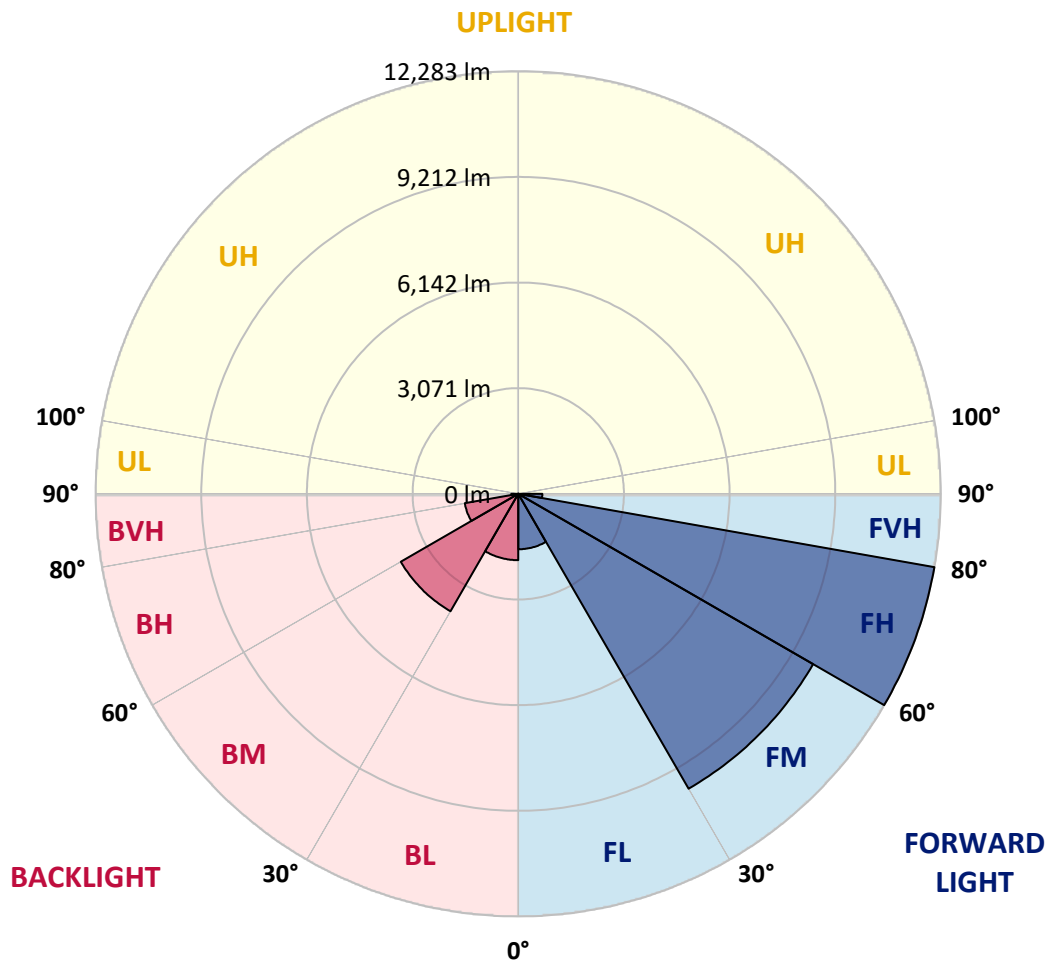


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.7	5.0			
FM (30°-60°)	9897.1	30.8			
FH (60°-80°)	12283.0	38.2			G5
FVH (80°-90°)	698.9	2.2			G4/750
BL (0°-30°)	1927.5	6.0	B3/2500		
BM (30°-60°)	3940.9	12.3	B3/5000		
BH (60°-80°)	1576.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	203.1	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7
2.5°	3949.2	3973.5	3983.9	3978.7	4004.8	4001.3	4037.8	4082.9	4145.5	4206.3
5°	3645.1	3671.2	3693.8	3714.6	3765.0	3780.6	3838.0	3924.8	4039.5	4155.9
7.5°	3361.9	3384.5	3419.2	3457.5	3542.6	3558.2	3653.8	3789.3	3949.2	4119.4
10°	3130.8	3153.4	3189.9	3233.3	3339.3	3358.4	3480.1	3660.7	3869.2	4084.7
12.5°	3031.8	3038.7	3059.6	3103.0	3195.1	3207.3	3341.1	3547.8	3791.0	4058.6
15°	3026.6	3040.5	3042.2	3064.8	3141.3	3146.5	3269.8	3474.8	3742.4	4053.4
17.5°	3078.7	3089.1	3073.5	3087.4	3151.7	3160.4	3257.7	3440.1	3726.8	4076.0
20°	3217.7	3226.4	3179.5	3160.4	3207.3	3214.2	3309.8	3462.7	3742.4	4122.9
22.5°	3513.1	3518.3	3403.6	3325.4	3328.9	3332.4	3415.8	3554.8	3803.2	4208.0
25°	3973.5	3970.0	3787.6	3636.4	3549.5	3530.4	3586.0	3704.2	3905.7	4321.0
27.5°	4512.1	4486.0	4303.6	4077.7	3888.3	3860.5	3848.4	3898.8	4051.7	4470.4
30°	5120.2	5095.9	4899.5	4604.2	4341.8	4296.6	4182.0	4155.9	4268.8	4673.7
32.5°	5787.3	5771.7	5537.2	5179.2	4828.3	4776.2	4583.3	4513.8	4602.4	4981.2
35°	6346.8	6332.9	6138.3	5770.0	5340.8	5276.5	5080.2	5002.0	5047.2	5375.6
37.5°	6852.4	6845.4	6678.6	6388.5	5945.4	5867.3	5646.6	5620.6	5611.9	5895.1
40°	7321.5	7304.1	7130.4	6977.5	6649.1	6577.9	6383.3	6360.7	6294.7	6534.4
42.5°	7841.0	7795.8	7543.9	7472.6	7384.0	7325.0	7208.6	7212.0	7066.1	7255.5
45°	8264.9	8238.8	7980.0	7938.3	8033.8	8009.5	8110.3	8136.3	7853.1	8011.2
47.5°	8720.1	8695.8	8476.9	8447.3	8706.2	8713.2	9069.3	9078.0	8621.1	8796.6
50°	9281.3	9246.5	9029.4	9065.9	9356.0	9382.1	10033.6	9974.5	9328.2	9594.0
52.5°	9651.4	9672.2	9625.3	9684.4	10080.5	10104.8	10982.2	10831.1	10028.4	10381.1
55°	9924.1	9965.8	10111.8	10247.3	10845.0	10869.3	11877.0	11645.9	10608.7	11110.8
57.5°	10275.1	10216.0	10488.8	10752.9	11571.2	11635.5	12747.4	12431.2	11123.0	11739.7
60°	10779.0	10737.3	10949.2	11340.1	12384.3	12486.8	13668.3	13138.4	11500.0	12238.4
62.5°	11800.6	11696.3	11729.3	12075.1	13409.4	13544.9	14707.3	13755.2	11687.6	12433.0
65°	13327.7	13148.8	12982.0	13221.8	14853.2	14987.0	15880.0	14239.9	11618.1	12056.0
67.5°	15251.1	15073.9	14868.8	15094.7	16979.8	17085.8	17327.3	14512.7	11070.8	10603.5
70°	16837.3	16771.3	17016.3	17945.8	20376.5	20379.9	19182.8	14286.8	9571.4	7517.8
72.5°	16627.1	16587.1	17878.0	20751.7	24657.5	24565.4	20939.4	12577.2	6447.6	3391.4
75°	13640.5	13899.4	15899.1	20701.4	26195.1	26182.9	19863.9	7995.6	2666.9	1405.6
77.5°	7314.5	7724.6	10322.0	15284.1	20449.4	20757.0	13965.4	2797.2	1145.0	900.0
80°	2385.5	2743.4	4114.2	7781.9	13287.8	13230.4	5985.4	1098.0	783.6	637.6
82.5°	1012.9	1054.6	1838.2	3674.6	6819.4	6713.4	1905.9	630.7	550.8	436.1
85°	396.1	443.0	811.4	1699.2	2953.6	2889.3	688.0	312.7	352.7	284.9
87.5°	130.3	158.1	290.1	582.0	919.1	886.1	168.5	107.7	152.9	130.3
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°
4282.7	0°	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7	4282.7
4294.9	2.5°	4319.2	4347.0	4380.0	4428.7	4470.4	4505.1	4541.6	4564.2	4572.9	4598.9
4301.9	5°	4350.5	4411.3	4493.0	4572.9	4651.1	4698.0	4739.7	4760.5	4779.6	4793.5
4321.0	7.5°	4402.6	4480.8	4609.4	4713.6	4779.6	4817.9	4845.7	4838.7	4845.7	4849.1
4341.8	10°	4447.8	4557.3	4710.1	4809.2	4859.6	4861.3	4854.4	4830.0	4817.9	4819.6
4373.1	12.5°	4501.7	4623.3	4788.3	4871.7	4885.6	4847.4	4817.9	4776.2	4760.5	4753.6
4420.0	15°	4574.6	4713.6	4873.5	4904.7	4870.0	4821.3	4771.0	4703.2	4668.4	4640.6
4499.9	17.5°	4663.2	4816.1	4939.5	4916.9	4842.2	4762.3	4680.6	4578.1	4506.9	4477.3
4609.4	20°	4786.6	4923.8	4989.9	4890.8	4777.9	4656.3	4517.3	4392.2	4326.2	4296.6
4748.4	22.5°	4936.0	5068.1	5038.5	4845.7	4685.8	4491.2	4317.5	4225.4	4192.4	4171.5
4927.3	25°	5115.0	5227.9	5073.3	4779.6	4534.7	4272.3	4138.5	4109.0	4093.4	4077.7
5146.2	27.5°	5347.8	5408.6	5099.3	4682.3	4298.4	4039.5	3990.9	3996.1	3990.9	3964.8
5450.3	30°	5655.3	5643.1	5123.7	4524.2	4027.3	3829.3	3832.7	3855.3	3858.8	3841.4
5874.2	32.5°	6060.1	5936.8	5135.8	4319.2	3768.5	3645.1	3648.6	3672.9	3690.3	3660.7
6428.5	35°	6550.1	6279.0	5116.7	4062.1	3568.7	3469.6	3443.6	3450.5	3455.7	3427.9
7100.8	37.5°	7121.7	6663.0	5031.6	3777.2	3403.6	3297.6	3242.0	3195.1	3167.3	3141.3
7861.8	40°	7748.9	7081.7	4875.2	3499.2	3219.4	3115.2	3031.8	2943.2	2849.4	2814.6
8668.0	42.5°	8405.6	7512.6	4685.8	3233.3	3007.5	2922.3	2833.7	2705.2	2564.4	2493.2
9505.4	45°	9086.7	7953.9	4499.9	2971.0	2790.3	2753.8	2651.3	2496.7	2343.8	2253.4
10344.6	47.5°	9753.9	8370.9	4227.1	2706.9	2587.0	2627.0	2547.1	2404.6	2234.3	2091.9
11176.8	50°	10391.5	8761.8	3780.6	2439.3	2422.0	2588.8	2512.3	2307.3	2112.7	1930.3
11993.4	52.5°	11023.9	9078.0	3209.0	2196.1	2333.4	2578.3	2467.1	2241.3	2003.2	1812.1
12761.3	55°	11560.8	9241.3	2658.3	1987.6	2204.8	2489.7	2413.3	2163.1	1848.6	1645.3
13287.8	57.5°	11866.6	9109.3	2199.6	1782.6	2027.6	2343.8	2321.2	1996.3	1664.4	1508.1
13390.3	60°	11734.5	8574.2	1824.3	1603.6	1859.0	2185.7	2161.3	1831.2	1523.7	1376.0
12841.3	62.5°	11006.6	7554.3	1527.2	1447.3	1706.1	2024.1	2001.5	1704.4	1416.0	1273.5
11383.6	65°	9540.2	6145.3	1296.1	1317.0	1551.5	1829.5	1862.5	1598.4	1330.9	1191.9
8807.0	67.5°	7276.3	4451.3	1115.4	1204.0	1400.4	1638.4	1733.9	1522.0	1259.6	1127.6
5095.9	70°	4147.2	2527.9	962.5	1094.6	1266.6	1461.2	1634.9	1461.2	1183.2	1073.7
1909.4	72.5°	1572.4	1160.6	832.2	985.1	1138.0	1311.8	1525.5	1365.6	1094.6	1012.9
986.9	75°	839.2	707.1	700.2	856.5	990.3	1165.8	1388.2	1271.8	1028.6	1070.3
682.8	77.5°	571.6	500.4	585.5	733.2	828.7	1004.2	1242.3	1129.3	891.3	887.8
472.6	80°	396.1	354.4	476.1	590.7	641.1	844.4	1084.1	969.5	726.2	677.6
291.9	82.5°	238.0	231.1	356.2	441.3	453.5	651.5	898.2	813.1	594.2	517.8
173.7	85°	130.3	137.3	227.6	258.9	264.1	455.2	703.7	628.9	456.9	384.0
62.5	87.5°	36.5	46.9	83.4	102.5	126.8	236.3	418.7	373.5	229.3	159.8
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>
4282.7
4597.2
4797.0
4854.4
4823.1
4750.1
4649.3
4479.1
4293.2
4175.0
4077.7
3970.0
3850.1
3674.6
3447.0
3158.6
2830.3
2501.9
2246.5
2076.2
1914.6
1791.3
1628.0
1487.2
1355.2
1250.9
1169.3
1106.7
1059.8
999.0
<i>1105.0</i>
818.3
648.1
521.2
387.4
159.8
0.0

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