

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: McGRAW-EDISON

Report Number: P956703

Luminaire Tested: **GALN-SB9B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53033 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

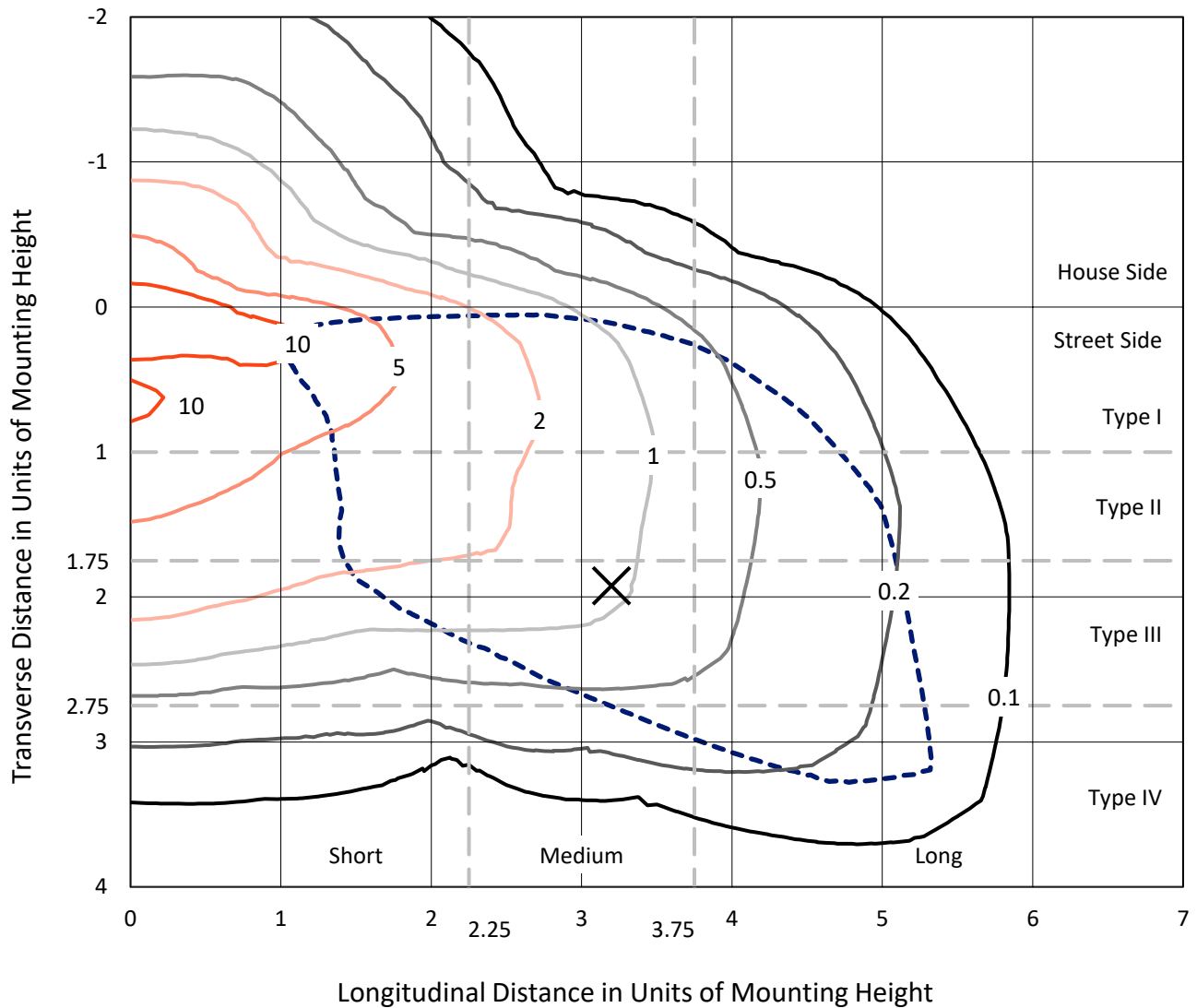
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

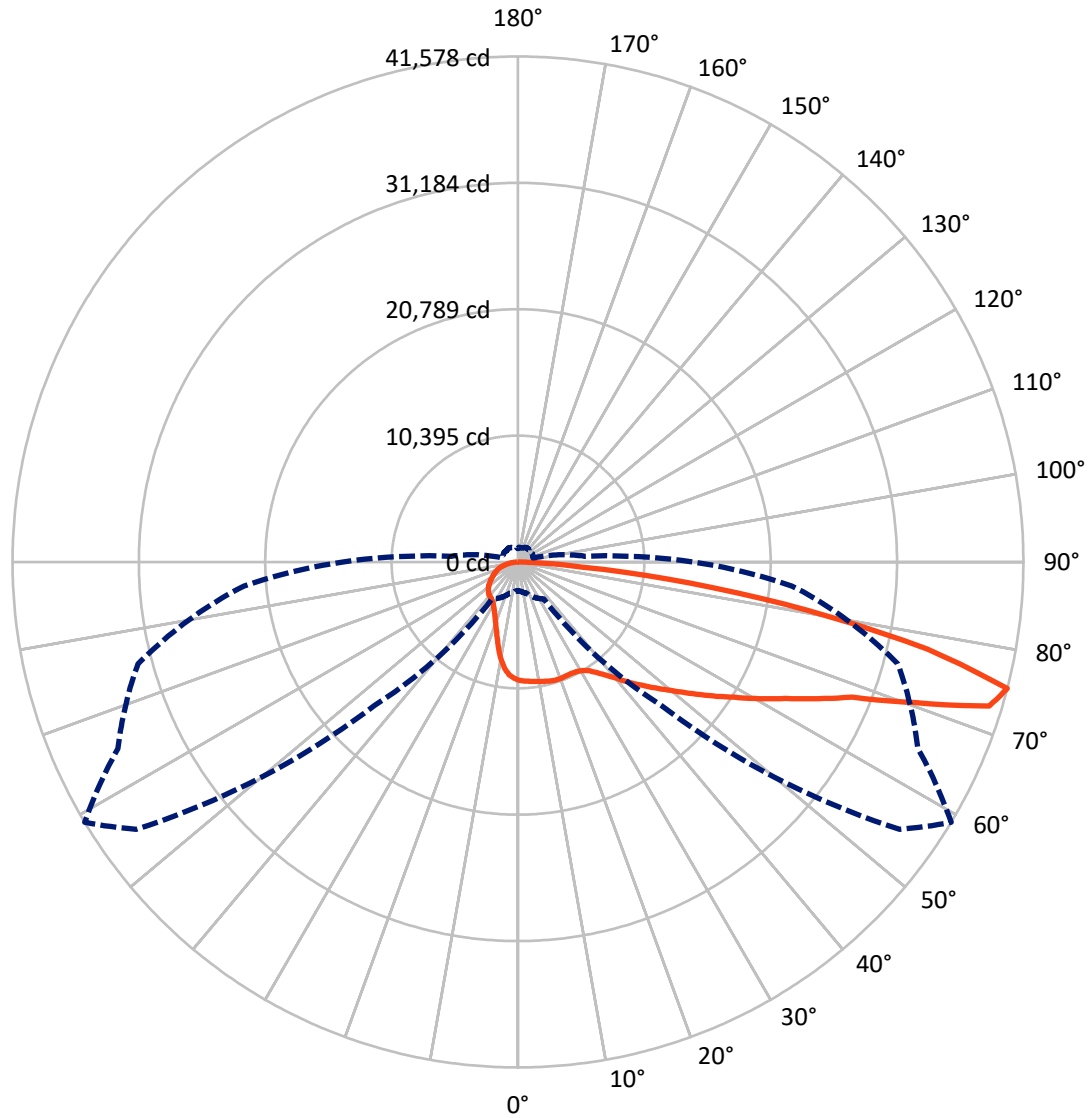
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9946.7	0.0	9946.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	43086.3	0.0	43086.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	53033.0	0.0	53033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.8	1.6
10°-20°	2231.0	4.2
20°-30°	3388.7	6.4
30°-40°	5037.2	9.5
40°-50°	7491.2	14.1
50°-60°	10168.4	19.2
60°-70°	12413.9	23.4
70°-80°	9742.3	18.4
80°-90°	1687.6	3.2
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°	53033.0	100.0
0°-180°	53033.0	100.0

Coefficient of Utilization

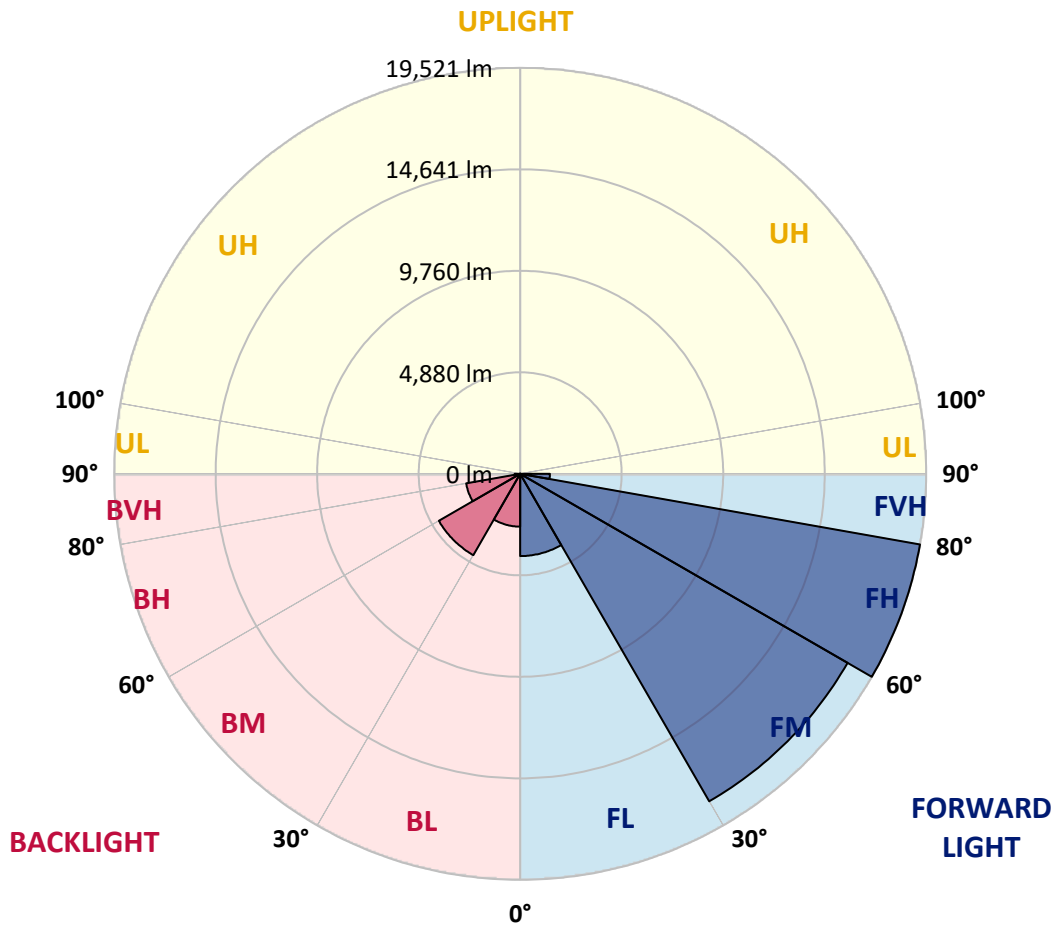


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3954.2	7.5			
FM (30°-60°)	18181.9	34.3			
FH (60°-80°)	19520.9	36.8			G5
FVH (80°-90°)	1429.3	2.7			G5
BL (0°-30°)	2538.3	4.8	B4/5000		
BM (30°-60°)	4514.8	8.5	B3/5000		
BH (60°-80°)	2635.3	5.0	B4/5000		G4/5000
BVH (80°-90°)	258.3	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1
2.5°	9816.8	9782.6	9816.8	9802.6	9796.9	9785.4	9788.3	9808.3	9796.9	9811.1
5°	9751.2	9731.2	9765.5	9756.9	9794.0	9799.7	9836.8	9859.6	9873.9	9876.7
7.5°	9642.8	9622.8	9671.3	9711.3	9791.1	9814.0	9891.0	9928.1	9948.1	9982.3
10°	9246.2	9237.7	9357.5	9508.7	9697.0	9814.0	9930.9	9993.7	10025.1	10116.4
12.5°	8544.4	8555.8	8712.8	9003.7	9380.3	9756.9	9976.6	10067.9	10116.4	10230.5
15°	7874.0	7871.1	8042.3	8353.3	8881.1	9505.9	9999.4	10156.3	10239.1	10407.4
17.5°	7486.0	7474.6	7594.4	7831.2	8321.9	9120.7	9942.4	10204.8	10381.7	10592.8
20°	7414.7	7391.9	7454.6	7571.6	7919.6	8698.5	9794.0	10204.8	10495.8	10769.7
22.5°	7674.3	7637.2	7611.5	7597.3	7751.3	8350.4	9625.7	10170.6	10664.1	11023.6
25°	8196.4	8139.3	8008.1	7879.7	7834.1	8193.5	9477.3	10162.0	10915.2	11365.9
27.5°	9040.8	8969.5	8704.2	8396.1	8119.3	8273.4	9411.7	10213.4	11191.9	11728.3
30°	10087.8	10010.8	9677.0	9203.4	8707.0	8570.1	9494.4	10364.6	11545.7	12210.4
32.5°	11026.5	10940.9	10655.6	10173.4	9503.0	9083.6	9756.9	10652.7	12102.0	12880.8
35°	11859.5	11759.6	11502.9	11057.8	10478.7	9805.4	10230.5	11163.4	12892.2	13970.6
37.5°	12675.4	12558.5	12278.9	11808.1	11403.0	10766.8	10883.8	11819.6	13942.1	15294.4
40°	13588.4	13420.0	13080.5	12615.5	12221.8	11893.7	11742.5	12624.1	15009.1	16772.2
42.5°	14472.8	14313.0	13907.9	13511.3	13017.8	12923.6	12738.2	13565.5	16175.9	18395.5
45°	15425.6	15234.5	14743.8	14241.7	13930.7	13608.3	13702.5	14507.0	17319.9	20050.2
47.5°	16318.6	16104.6	15525.5	14966.3	14795.1	14184.6	14586.9	15542.6	18509.6	21727.7
50°	16800.7	16589.6	16107.5	15602.5	15468.4	14895.0	15545.4	16680.9	19756.3	23399.5
52.5°	17203.0	16974.7	16344.3	16064.7	16024.7	15668.1	16726.5	17981.8	21003.0	24877.3
55°	17630.9	17377.0	16572.5	16321.4	16504.0	16535.4	18127.3	19456.8	22321.1	26318.0
57.5°	18124.5	17802.1	16792.2	16538.3	16971.9	17551.0	19736.4	20985.9	23616.3	27653.1
60°	18589.5	18264.3	17214.4	16883.5	17476.9	18729.3	21582.2	22837.5	25082.7	28842.8
62.5°	18680.8	18412.6	17551.0	17548.2	18161.6	20104.4	23767.5	24706.1	26363.6	30018.2
65°	17100.3	16932.0	16421.3	17522.5	19142.9	22084.3	26201.0	27096.8	27992.6	31045.2
67.5°	13014.9	13037.7	13000.7	15126.1	18349.8	24928.6	29724.3	29655.9	30003.9	32197.8
70°	5951.1	6085.2	6958.2	10441.6	14701.0	25256.7	35550.0	34662.7	32528.7	33689.9
72.5°	3215.2	3317.9	3674.5	5058.2	8838.3	22455.2	39903.5	40534.0	35886.6	34694.1
75°	2359.3	2416.4	2664.6	3215.2	3711.6	16689.5	38343.0	41578.1	36306.0	32351.9
77.5°	1765.9	1791.6	1994.2	2547.6	1900.0	8798.3	30637.3	34434.5	31079.5	26580.5
80°	1281.0	1309.5	1460.7	1911.4	1332.3	3218.1	21037.3	24169.8	21285.5	16943.4
82.5°	884.4	895.8	961.4	1300.9	930.0	1249.6	11936.5	14173.2	11882.3	5945.4
85°	533.5	547.8	576.3	758.9	527.8	593.4	5152.3	5329.2	3551.9	1420.7
87.5°	219.7	233.9	256.8	319.5	208.3	165.5	850.2	1067.0	664.7	416.5
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°
9734.1	0°	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1	9734.1
9762.6	2.5°	9748.4	9728.4	9674.2	9600.0	9531.5	9445.9	9408.9	9377.5	9348.9	9294.7
9839.6	5°	9808.3	9754.1	9608.6	9420.3	9206.3	8972.4	8744.1	8587.2	8453.1	8353.3
9928.1	7.5°	9899.6	9796.9	9531.5	9146.4	8655.7	8153.6	7700.0	7377.6	7135.1	7046.7
10053.6	10°	9993.7	9871.0	9408.9	8729.9	7882.6	7109.4	6507.5	6176.5	5982.5	5919.8
10202.0	12.5°	10105.0	9925.2	9217.7	8150.7	7018.1	6170.8	5645.9	5451.9	5352.0	5317.8
10384.5	15°	10267.6	9970.9	8929.6	7426.1	6193.6	5486.1	5146.6	5012.5	4961.2	4958.3
10572.8	17.5°	10390.3	9979.4	8481.7	6650.1	5560.3	5072.5	4792.9	4741.5	4775.8	4827.1
10758.3	20°	10527.2	9902.4	7894.0	5942.6	5115.2	4710.1	4593.2	4627.4	4710.1	4784.3
11003.6	22.5°	10624.2	9762.6	7183.6	5392.0	4730.1	4501.9	4496.2	4567.5	4613.1	4650.2
11291.8	25°	10709.8	9525.8	6430.4	4929.8	4413.4	4376.3	4439.1	4416.3	4384.9	4416.3
11579.9	27.5°	10772.5	9152.1	5757.1	4524.7	4190.9	4290.8	4253.7	4202.3	4199.5	4216.6
11919.4	30°	10752.6	8652.8	5203.7	4139.6	4034.0	4131.0	4042.6	4034.0	4025.4	4034.0
12430.1	32.5°	10752.6	8085.1	4778.6	3874.2	3934.1	3897.1	3888.5	3868.5	3834.3	3831.4
13123.3	35°	10812.5	7517.4	4413.4	3731.6	3851.4	3763.0	3768.7	3720.2	3648.9	3614.6
14042.0	37.5°	10935.2	7060.9	4051.1	3663.1	3705.9	3703.1	3680.2	3597.5	3472.0	3363.6
15188.8	40°	11231.9	6926.8	3802.9	3631.7	3637.4	3671.7	3611.8	3452.0	3166.7	2989.8
16352.8	42.5°	11696.9	7152.2	3748.7	3554.7	3591.8	3626.0	3509.1	3138.2	2935.6	2830.1
17573.9	45°	12287.4	7545.9	3865.7	3443.4	3483.4	3543.3	3195.2	3018.4	2927.1	2929.9
18783.5	47.5°	13034.9	7959.6	4082.5	3346.4	3326.5	3360.7	2987.0	2878.6	2753.0	2784.4
19944.6	50°	13899.3	8379.0	4287.9	3215.2	3152.5	3041.2	2852.9	2750.2	2590.4	2516.3
21065.8	52.5°	14835.1	8784.1	4370.6	3055.5	2964.2	2835.8	2761.6	2636.1	2442.1	2319.4
22124.2	55°	15722.3	9152.1	4279.3	2864.3	2775.9	2676.0	2664.6	2587.6	2379.3	2208.1
23065.7	57.5°	16561.1	9460.2	4051.1	2670.3	2584.7	2524.8	2601.8	2564.8	2302.3	2082.6
23955.8	60°	17271.4	9671.3	3720.2	2473.5	2413.6	2382.2	2499.1	2487.7	2193.9	1948.5
24754.6	62.5°	17836.3	9754.1	3355.0	2285.2	2270.9	2213.8	2356.5	2356.5	2056.9	1817.3
25456.4	65°	18278.5	9674.2	2984.1	2099.7	2128.3	2042.7	2182.5	2165.3	1911.4	1700.3
26263.8	67.5°	18669.4	9411.7	2573.3	1917.1	1982.8	1874.4	1999.9	1959.9	1751.7	1583.4
26962.7	70°	18843.4	8801.2	2105.4	1734.6	1814.4	1708.9	1817.3	1743.1	1571.9	1457.8
26195.3	72.5°	17445.5	7314.8	1657.5	1543.4	1611.9	1526.3	1620.4	1534.9	1377.9	1326.6
22620.6	75°	14432.8	5489.0	1275.2	1335.2	1386.5	1320.9	1383.7	1320.9	1178.2	1215.3
16709.4	77.5°	10481.5	3705.9	975.7	1115.5	1138.3	1104.1	1158.3	1087.0	958.6	950.0
8327.6	80°	5212.2	2171.1	764.6	881.5	873.0	850.2	912.9	878.7	770.3	815.9
2248.1	82.5°	1509.2	930.0	556.3	619.1	602.0	607.7	653.3	670.4	1004.2	995.7
699.0	85°	473.6	365.2	333.8	345.2	328.1	336.6	385.1	764.6	707.5	413.7
216.8	87.5°	122.7	125.5	82.7	88.4	91.3	108.4	122.7	465.0	222.5	145.5
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>
9734.1
9269.1
8270.6
6892.6
5822.8
5326.4
4969.7
4847.1
4810.0
4670.2
4436.3
4245.1
4065.4
3868.5
3648.9
3400.7
3012.7
2830.1
2944.2
2864.3
2536.2
2316.6
2208.1
2071.2
1940.0
1808.7
1688.9
1571.9
1435.0
1283.8
<i>1109.8</i>
907.2
807.4
1018.5
447.9
154.1
0.0

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