

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: P951367

Luminaire Tested: **GALN-SB5C-750-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-750-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39781 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

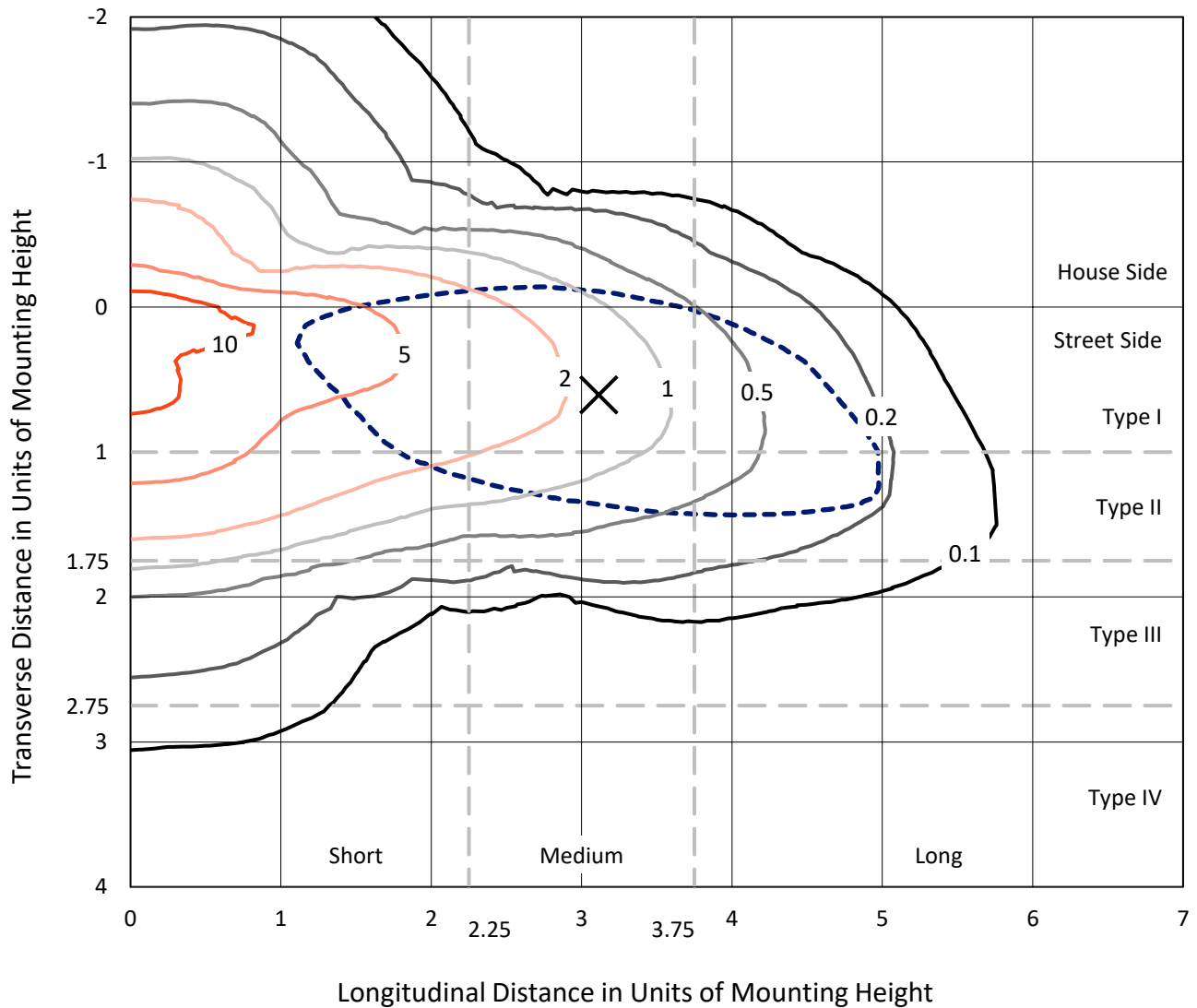
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

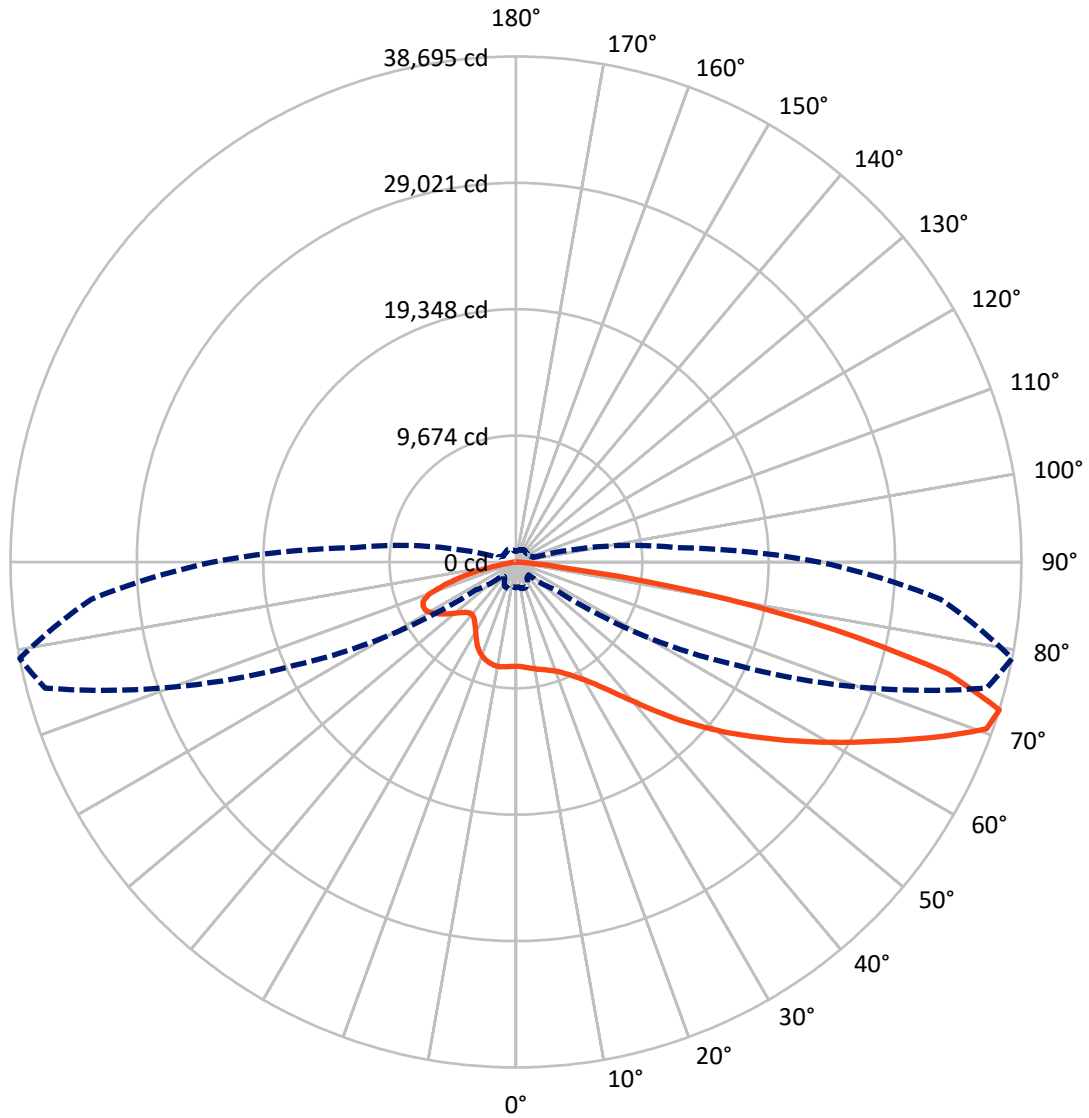
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8754.0	0.0	8754.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	31027.0	0.0	31027.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	39781.0	0.0	39781.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.9	1.8
10°-20°	1895.2	4.8
20°-30°	3058.0	7.7
30°-40°	4589.7	11.5
40°-50°	6510.7	16.4
50°-60°	8222.1	20.7
60°-70°	8350.7	21.0
70°-80°	5691.4	14.3
80°-90°	738.4	1.9
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°	39781.0	100.0
0°-180°	39781.0	100.0

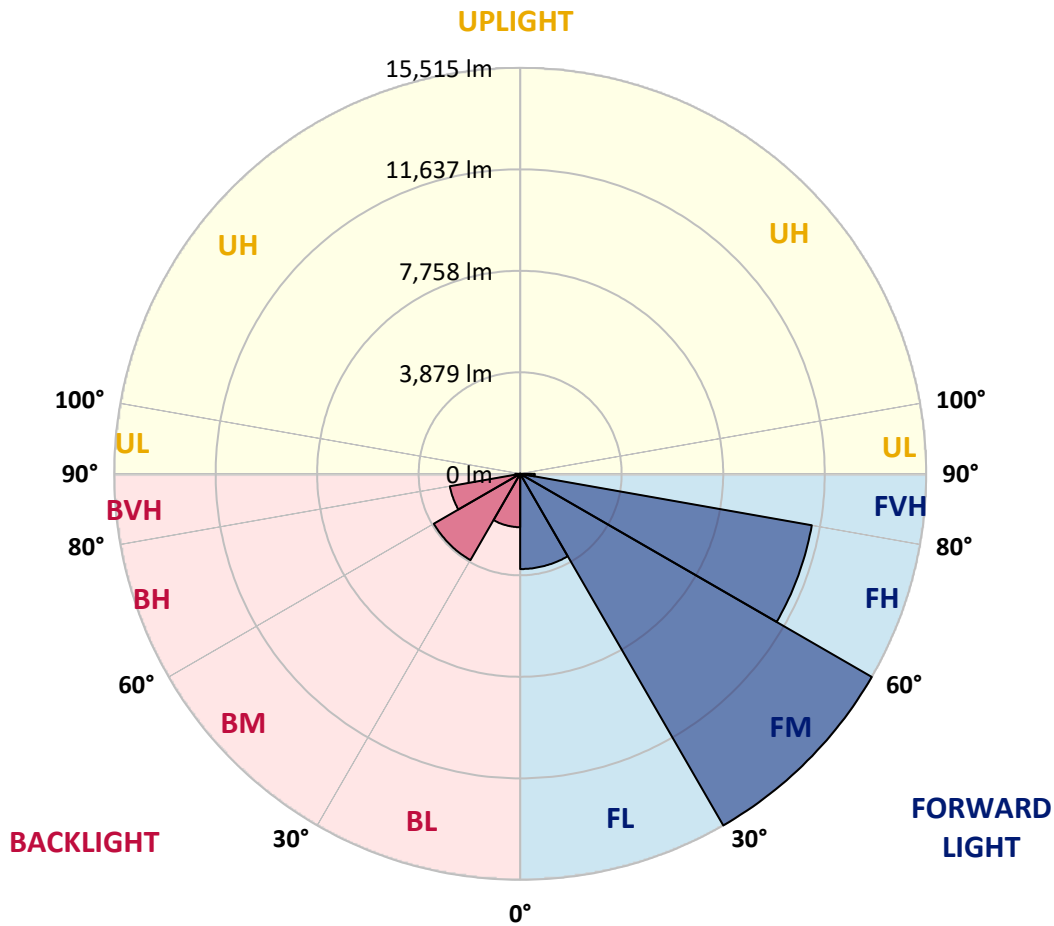


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3639.0	9.1			
FM (30°-60°)	15515.4	39.0			
FH (60°-80°)	11316.3	28.4			G4/12000
FVH (80°-90°)	556.2	1.4			G4/750
BL (0°-30°)	2039.1	5.1	B3/2500		
BM (30°-60°)	3807.1	9.6	B3/5000		
BH (60°-80°)	2725.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	182.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7
2.5°	7989.9	7952.0	7975.1	7966.7	7977.2	7989.9	7994.1	8000.4	8021.4	8019.3
5°	7973.0	7935.2	7966.7	7956.2	7983.6	8013.0	8038.3	8061.4	8095.1	8109.8
7.5°	7937.3	7912.0	7943.6	7975.1	8025.6	8069.8	8105.6	8158.2	8206.6	8215.0
10°	7728.9	7710.0	7783.6	7865.7	8004.6	8124.5	8202.4	8263.4	8316.0	8324.4
12.5°	7512.2	7489.1	7571.1	7682.6	7907.8	8124.5	8288.7	8368.6	8414.9	8442.3
15°	7476.4	7457.5	7503.8	7600.6	7787.9	8067.7	8347.6	8494.9	8534.9	8566.4
17.5°	7649.0	7613.2	7632.1	7665.8	7775.2	8015.1	8393.9	8638.0	8699.0	8732.7
20°	8048.8	7998.3	7968.8	7901.5	7882.5	8023.5	8389.7	8810.5	8890.5	8932.6
22.5°	8581.2	8547.5	8484.4	8313.9	8128.7	8126.6	8469.6	9031.5	9180.9	9220.9
25°	9225.1	9174.6	9094.6	8863.1	8507.5	8330.8	8604.3	9313.4	9563.9	9574.4
27.5°	9965.8	9890.0	9780.6	9475.5	8995.7	8650.6	8810.5	9637.5	10003.6	9999.4
30°	10746.4	10670.7	10555.0	10184.6	9580.7	9082.0	9096.7	9986.8	10525.5	10502.3
32.5°	11316.7	11259.9	11236.7	10950.6	10254.0	9591.2	9425.0	10374.0	11169.4	11148.4
35°	11754.4	11680.7	11708.1	11562.9	10988.4	10161.5	9826.9	10834.8	11952.2	11950.1
37.5°	12187.9	12122.6	12145.8	12049.0	11668.1	10885.3	10317.2	11398.8	12922.2	12968.5
40°	12583.5	12514.0	12606.6	12516.1	12196.3	11655.5	10874.8	12036.4	14045.9	14134.3
42.5°	12821.2	12766.5	12920.1	12922.2	12655.0	12305.7	11487.1	12739.2	15346.4	15544.2
45°	12903.3	12884.4	13115.8	13164.2	13061.1	12682.4	12038.5	13505.1	16747.8	17101.3
47.5°	12814.9	12779.2	13099.0	13277.9	13359.9	12859.1	12495.1	14334.2	18178.7	18696.3
50°	12368.8	12299.4	12774.9	13151.6	13444.1	12974.9	12955.9	15291.6	19805.3	20371.3
52.5°	11567.1	11514.5	12055.3	12709.7	13258.9	13031.7	13473.6	16337.5	21349.8	22082.1
55°	10542.3	10472.9	11068.4	11922.7	12798.1	13012.7	13991.2	17507.4	23172.1	23914.9
57.5°	8917.8	8779.0	9532.3	10542.3	12046.9	12989.6	14529.9	18671.1	25023.8	25913.9
60°	6548.4	6342.2	7266.0	8463.3	10578.1	12764.4	15196.9	19975.7	27245.9	28047.6
62.5°	3812.9	3693.0	4296.9	5414.3	7973.0	11438.7	15571.5	21492.9	29430.1	30271.8
65°	2960.7	2927.0	2979.6	3065.9	4437.9	8564.3	14416.3	22972.2	32207.8	32797.0
67.5°	2708.2	2682.9	2706.1	2544.0	2251.6	4770.4	11405.1	23346.7	35183.2	35540.9
70°	2407.3	2377.8	2453.6	2314.7	1771.8	2169.5	7369.1	21987.4	37550.5	38221.7
72.5°	1961.2	1927.5	2104.3	2041.1	1491.9	1393.0	3701.4	18757.4	37302.2	38695.2
75°	1506.6	1487.7	1698.1	1750.7	1216.3	1096.3	1776.0	13942.8	32826.4	34230.0
77.5°	1170.0	1155.2	1262.6	1454.0	980.6	850.1	1092.1	8844.2	24737.7	24983.9
80°	877.5	835.4	934.3	1125.8	763.8	620.8	740.7	5157.5	15636.7	14174.3
82.5°	549.2	528.2	610.2	751.2	538.7	427.2	481.9	2849.2	6266.5	3690.9
85°	313.5	305.1	332.5	429.3	292.5	246.2	275.7	1258.3	1144.7	787.0
87.5°	126.3	122.0	151.5	191.5	107.3	90.5	96.8	303.0	252.5	233.6
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°
7985.7	0°	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7	7985.7
8017.2	2.5°	8008.8	8008.8	7979.3	7933.1	7880.4	7846.8	7792.1	7777.3	7720.5	7703.7
8088.8	5°	8105.6	8088.8	7998.3	7867.8	7689.0	7524.8	7343.9	7230.2	7070.3	7013.5
8229.8	7.5°	8227.6	8181.4	8025.6	7739.5	7364.9	6996.7	6613.7	6323.3	6045.5	5946.6
8345.5	10°	8339.2	8273.9	8008.8	7508.0	6859.9	6222.3	5612.1	5184.9	4860.8	4728.3
8473.8	12.5°	8450.7	8330.8	7897.3	7122.9	6142.3	5277.5	4627.3	4294.8	4094.9	3935.0
8579.1	15°	8555.9	8387.6	7724.7	6607.4	5355.3	4477.9	3998.1	3733.0	3573.0	3467.8
8732.7	17.5°	8678.0	8436.0	7465.9	5952.9	4606.2	3924.4	3533.0	3373.1	3341.6	3328.9
8943.1	20°	8848.4	8480.2	7125.0	5220.7	4054.9	3482.5	3280.5	3265.8	3263.7	3257.4
9195.6	22.5°	9031.5	8532.8	6674.7	4555.7	3585.7	3206.9	3171.1	3141.7	3122.7	3120.6
9500.7	25°	9248.2	8549.6	6110.8	4010.7	3185.8	3076.4	3034.3	2990.2	2977.5	2977.5
9847.9	27.5°	9458.6	8492.8	5454.2	3537.3	2960.7	2956.5	2901.8	2887.0	2884.9	2891.2
10243.5	30°	9669.1	8385.5	4801.9	3099.6	2830.2	2830.2	2811.3	2821.8	2830.2	2851.3
10786.4	32.5°	9953.1	8271.8	4256.9	2775.5	2716.6	2695.6	2714.5	2735.5	2744.0	2771.3
11499.8	35°	10369.8	8191.9	3823.4	2598.8	2598.8	2571.4	2581.9	2577.7	2558.8	2546.2
12362.5	37.5°	10921.1	8187.7	3465.7	2516.7	2499.9	2495.6	2497.8	2470.4	2396.7	2308.4
13406.2	40°	11583.9	8301.3	3190.1	2459.9	2447.3	2472.5	2459.9	2386.2	2184.2	2030.6
14689.8	42.5°	12474.0	8625.4	3013.3	2390.4	2428.3	2459.9	2409.4	2154.8	2018.0	1914.9
16152.3	45°	13522.0	9151.4	2922.8	2316.8	2392.5	2430.4	2186.3	2074.8	1965.4	1841.2
17747.3	47.5°	14708.8	9814.3	2901.8	2247.3	2312.6	2335.7	2091.6	2041.1	1917.0	1782.3
19350.8	50°	16000.8	10599.1	2958.6	2165.3	2196.8	2116.9	2060.1	2013.8	1885.4	1752.8
20994.2	52.5°	17337.0	11464.0	3072.2	2053.8	2081.1	1992.7	2047.4	2007.5	1866.5	1687.6
22692.3	55°	18650.0	12335.2	3181.6	1923.3	1963.3	1881.2	2011.7	1982.2	1780.2	1578.2
24504.1	57.5°	19984.1	13202.1	3289.0	1807.6	1849.6	1773.9	1954.9	1914.9	1683.4	1477.2
26482.1	60°	21370.8	14043.8	3339.5	1696.0	1725.5	1675.0	1868.6	1799.1	1574.0	1374.1
28426.4	62.5°	22669.2	14744.5	3257.4	1584.5	1603.4	1582.4	1755.0	1662.4	1464.6	1258.3
30452.8	65°	23971.7	15161.2	3004.9	1475.1	1479.3	1468.8	1595.0	1515.1	1336.2	1157.3
32226.7	67.5°	25152.2	15394.7	2603.0	1357.2	1346.7	1342.5	1445.6	1355.1	1212.1	1056.3
33575.5	70°	25402.6	14801.3	1988.5	1218.4	1218.4	1207.8	1281.5	1188.9	1075.3	949.0
32609.7	72.5°	23201.5	12450.9	1412.0	1060.5	1077.4	1056.3	1117.4	1039.5	936.4	852.2
28104.5	75°	18709.0	9130.4	1026.9	898.5	928.0	892.2	949.0	894.3	805.9	803.8
19367.6	77.5°	12854.9	5645.7	744.9	740.7	761.7	715.4	780.7	751.2	671.3	635.5
8429.7	80°	5485.8	2251.6	542.9	572.4	572.4	530.3	606.0	614.4	545.0	528.2
1626.6	82.5°	1092.1	639.7	380.9	393.5	370.3	357.7	429.3	475.6	656.5	730.2
490.3	85°	328.3	235.7	229.4	214.6	189.4	191.5	252.5	477.7	589.2	336.7
162.0	87.5°	90.5	58.9	61.0	48.4	40.0	52.6	86.3	361.9	197.8	84.2
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>
7985.7
7731.0
7055.6
5959.3
4757.7
3987.6
3486.8
3337.4
3278.4
3143.8
2990.2
2908.1
2866.0
2794.5
2575.6
2310.5
2026.4
1910.7
1832.8
1771.8
1738.1
1675.0
1567.7
1473.0
1367.8
1256.2
1144.7
1043.7
944.8
827.0
723.9
595.5
528.2
732.3
290.4
71.5
0.0

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