

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: P951453

Luminaire Tested: **GALN-SB5C-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951453
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-SB5C-835-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34294 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

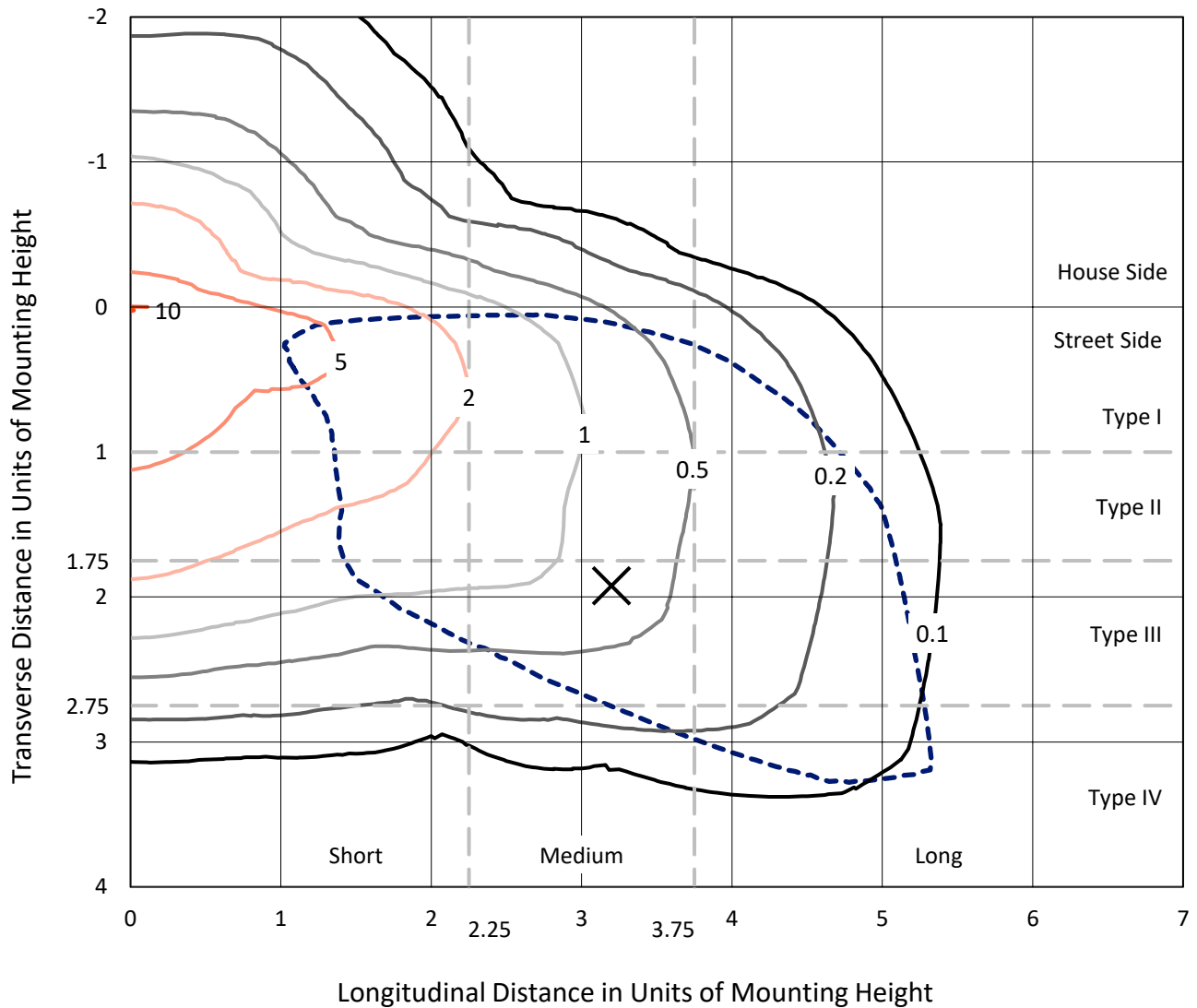
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

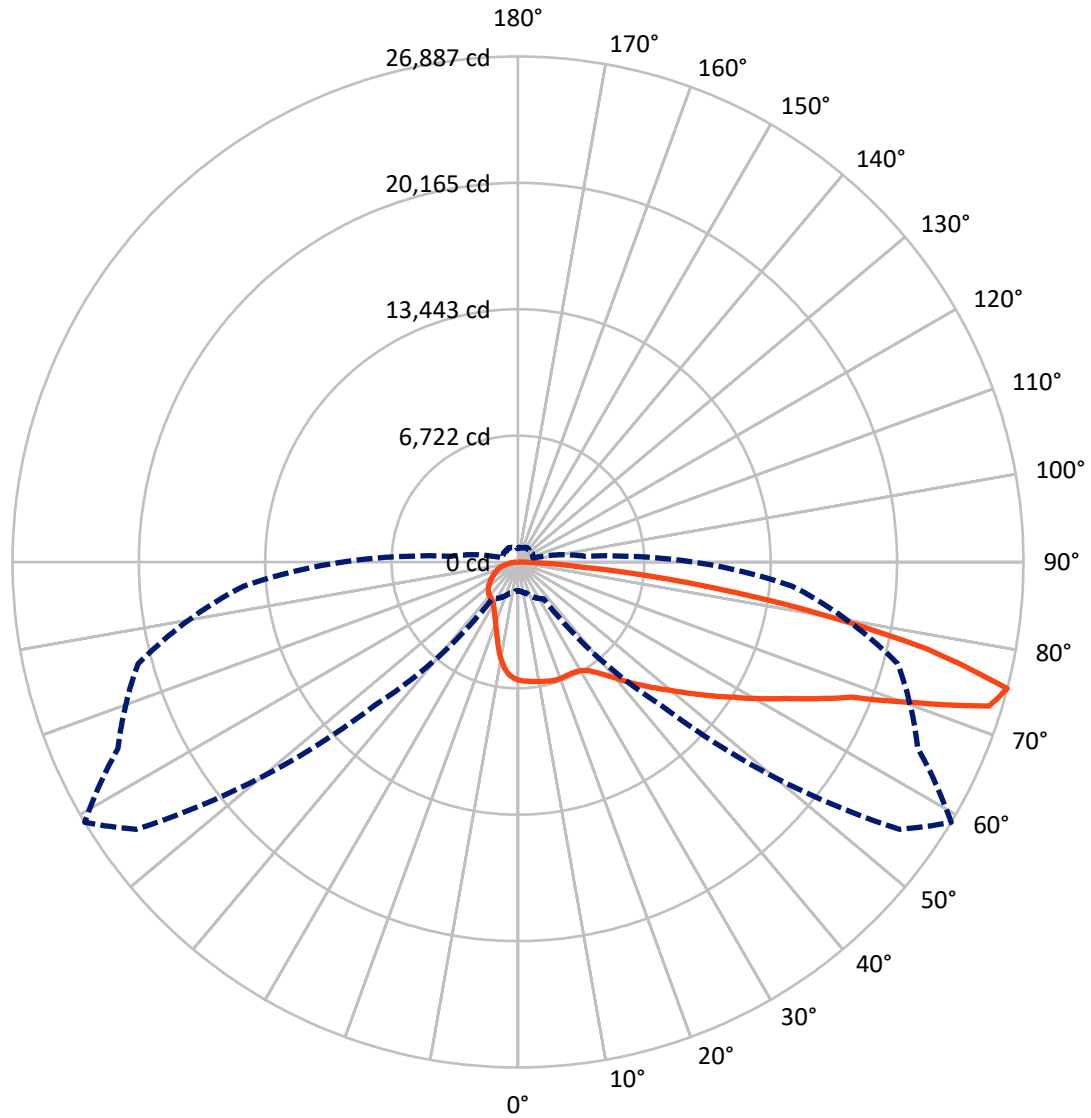
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	6432.1	0.0	6432.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27861.9	0.0	27861.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	34294.0	0.0	34294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.4	1.6
10°-20°	1442.7	4.2
20°-30°	2191.3	6.4
30°-40°	3257.3	9.5
40°-50°	4844.2	14.1
50°-60°	6575.4	19.2
60°-70°	8027.5	23.4
70°-80°	6299.9	18.4
80°-90°	1091.3	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°	34294.0	100.0
0°-180°	34294.0	100.0

Coefficient of Utilization

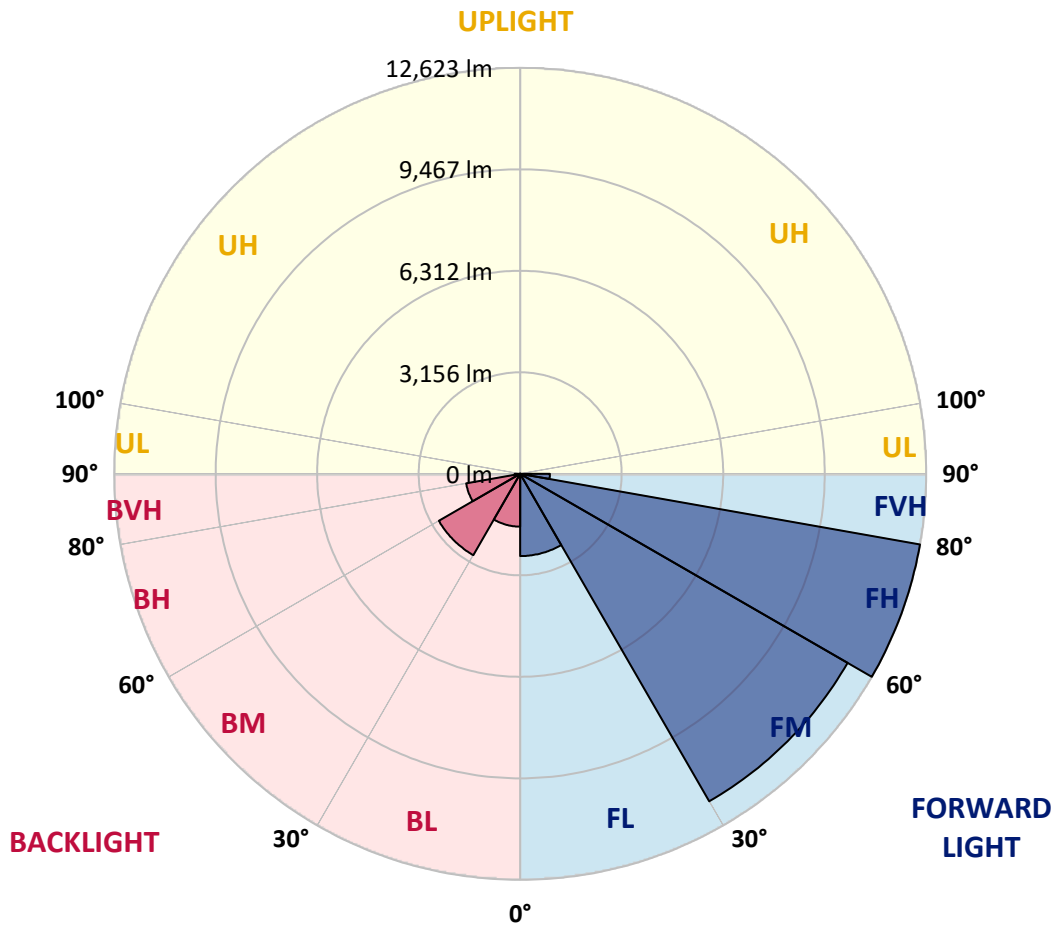


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2557.0	7.5			
FM (30°-60°)	11757.4	34.3			
FH (60°-80°)	12623.3	36.8			G5
FVH (80°-90°)	924.2	2.7			G5
BL (0°-30°)	1641.4	4.8	B3/2500		
BM (30°-60°)	2919.5	8.5	B3/5000		
BH (60°-80°)	1704.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	167.0	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6
2.5°	6348.1	6325.9	6348.1	6338.9	6335.2	6327.8	6329.6	6342.6	6335.2	6344.4
5°	6305.7	6292.7	6314.9	6309.3	6333.3	6337.0	6361.0	6375.8	6385.0	6386.8
7.5°	6235.6	6222.6	6254.0	6279.8	6331.5	6346.2	6396.1	6420.0	6433.0	6455.1
10°	5979.1	5973.6	6051.1	6148.8	6270.6	6346.2	6421.9	6462.5	6482.8	6541.8
12.5°	5525.3	5532.7	5634.1	5822.3	6065.8	6309.3	6451.4	6510.4	6541.8	6615.6
15°	5091.8	5089.9	5200.6	5401.7	5743.0	6147.0	6466.2	6567.6	6621.1	6730.0
17.5°	4840.9	4833.5	4911.0	5064.1	5381.4	5897.9	6429.3	6599.0	6713.4	6849.9
20°	4794.7	4780.0	4820.6	4896.2	5121.3	5624.9	6333.3	6599.0	6787.2	6964.3
22.5°	4962.6	4938.6	4922.0	4912.8	5012.4	5399.8	6224.5	6576.8	6896.0	7128.5
25°	5300.2	5263.3	5178.5	5095.4	5065.9	5298.4	6128.6	6571.3	7058.4	7349.8
27.5°	5846.3	5800.2	5628.6	5429.4	5250.4	5350.0	6086.1	6604.5	7237.3	7584.1
30°	6523.3	6473.5	6257.7	5951.4	5630.4	5541.9	6139.6	6702.3	7466.1	7895.9
32.5°	7130.3	7075.0	6890.5	6578.7	6145.2	5874.0	6309.3	6888.6	7825.8	8329.4
35°	7669.0	7604.4	7438.4	7150.6	6776.1	6340.7	6615.6	7218.9	8336.8	9034.2
37.5°	8196.6	8121.0	7940.2	7635.8	7373.8	6962.4	7038.1	7643.2	9015.7	9890.2
40°	8787.0	8678.1	8458.6	8157.9	7903.3	7691.1	7593.4	8163.4	9705.7	10845.8
42.5°	9358.9	9255.6	8993.6	8737.2	8418.0	8357.1	8237.2	8772.2	10460.2	11895.5
45°	9975.0	9851.4	9534.1	9209.4	9008.3	8799.9	8860.8	9381.0	11200.0	12965.5
47.5°	10552.5	10414.1	10039.6	9678.0	9567.3	9172.5	9432.7	10050.7	11969.3	14050.3
50°	10864.3	10727.7	10416.0	10089.4	10002.7	9631.9	10052.5	10786.8	12775.5	15131.4
52.5°	11124.4	10976.8	10569.1	10388.3	10362.5	10131.9	10816.3	11628.0	13581.7	16087.0
55°	11401.1	11236.9	10716.7	10554.3	10672.4	10692.7	11722.1	12581.8	14434.0	17018.6
57.5°	11720.3	11511.8	10858.7	10694.5	10974.9	11349.4	12762.6	13570.6	15271.6	17882.0
60°	12021.0	11810.7	11131.8	10917.8	11301.5	12111.4	13956.2	14767.9	16219.8	18651.3
62.5°	12080.0	11906.6	11349.4	11347.6	11744.2	13000.6	15369.3	15976.3	17048.1	19411.4
65°	11058.0	10949.1	10618.9	11331.0	12378.9	14280.9	16943.0	17522.3	18101.6	20075.5
67.5°	8416.2	8430.9	8406.9	9781.3	11866.0	16120.2	19221.4	19177.1	19402.2	20820.8
70°	3848.3	3935.0	4499.6	6752.1	9506.5	16332.4	22988.5	22414.8	21034.8	21785.7
72.5°	2079.1	2145.5	2376.2	3270.9	5715.3	14520.7	25803.7	26211.5	23206.2	22435.1
75°	1525.7	1562.6	1723.1	2079.1	2400.1	10792.3	24794.6	26886.7	23477.4	20920.5
77.5°	1142.0	1158.6	1289.5	1647.4	1228.7	5689.5	19811.7	22267.2	20097.7	17188.4
80°	828.3	846.8	944.6	1236.0	861.5	2081.0	13603.8	15629.5	13764.3	10956.5
82.5°	571.9	579.3	621.7	841.2	601.4	808.0	7718.8	9165.2	7683.8	3844.6
85°	345.0	354.2	372.7	490.7	341.3	383.7	3331.8	3446.2	2296.8	918.7
87.5°	142.1	151.3	166.0	206.6	134.7	107.0	549.8	690.0	429.8	269.3
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°
6294.6	0°	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6	6294.6
6313.0	2.5°	6303.8	6290.9	6255.8	6207.9	6163.6	6108.3	6084.3	6064.0	6045.5	6010.5
6362.8	5°	6342.6	6307.5	6213.4	6091.7	5953.3	5802.0	5654.4	5553.0	5466.3	5401.7
6420.0	7.5°	6401.6	6335.2	6163.6	5914.6	5597.2	5272.5	4979.2	4770.8	4613.9	4556.7
6501.2	10°	6462.5	6383.1	6084.3	5645.2	5097.3	4597.3	4208.1	3994.1	3868.6	3828.0
6597.1	12.5°	6534.4	6418.2	5960.7	5270.7	4538.3	3990.4	3650.9	3525.5	3460.9	3438.8
6715.2	15°	6639.6	6447.7	5774.3	4802.1	4005.1	3547.6	3328.1	3241.4	3208.2	3206.3
6837.0	17.5°	6718.9	6453.2	5484.7	4300.3	3595.6	3280.1	3099.3	3066.1	3088.3	3121.5
6956.9	20°	6807.5	6403.4	5104.7	3842.8	3307.8	3045.8	2970.2	2992.3	3045.8	3093.8
7115.5	22.5°	6870.2	6313.0	4645.3	3486.7	3058.7	2911.2	2907.5	2953.6	2983.1	3007.1
7301.9	25°	6925.5	6159.9	4158.3	3187.9	2854.0	2830.0	2870.6	2855.8	2835.5	2855.8
7488.2	27.5°	6966.1	5918.2	3722.9	2925.9	2710.1	2774.6	2750.7	2717.4	2715.6	2726.7
7707.7	30°	6953.2	5595.4	3365.0	2676.9	2608.6	2671.3	2614.1	2608.6	2603.1	2608.6
8038.0	32.5°	6953.2	5228.3	3090.1	2505.3	2544.0	2520.0	2514.5	2501.6	2479.5	2477.6
8486.3	35°	6991.9	4861.1	2854.0	2413.0	2490.5	2433.3	2437.0	2405.7	2359.5	2337.4
9080.3	37.5°	7071.3	4566.0	2619.7	2368.8	2396.4	2394.6	2379.8	2326.3	2245.2	2175.1
9821.9	40°	7263.1	4479.3	2459.2	2348.5	2352.2	2374.3	2335.6	2232.3	2047.8	1933.4
10574.6	42.5°	7563.8	4625.0	2424.1	2298.7	2322.7	2344.8	2269.2	2029.3	1898.3	1830.1
11364.2	45°	7945.7	4879.6	2499.8	2226.7	2252.5	2291.3	2066.2	1951.8	1892.8	1894.6
12146.4	47.5°	8429.1	5147.1	2640.0	2164.0	2151.1	2173.2	1931.5	1861.4	1780.3	1800.6
12897.3	50°	8988.1	5418.3	2772.8	2079.1	2038.5	1966.6	1844.8	1778.4	1675.1	1627.1
13622.3	52.5°	9593.2	5680.3	2826.3	1975.8	1916.8	1833.8	1785.8	1704.6	1579.2	1499.9
14306.7	55°	10166.9	5918.2	2767.3	1852.2	1795.0	1730.5	1723.1	1673.3	1538.6	1427.9
14915.5	57.5°	10709.3	6117.5	2619.7	1726.8	1671.4	1632.7	1682.5	1658.5	1488.8	1346.7
15491.1	60°	11168.6	6254.0	2405.7	1599.5	1560.7	1540.4	1616.1	1608.7	1418.7	1260.0
16007.7	62.5°	11533.9	6307.5	2169.5	1477.7	1468.5	1431.6	1523.8	1523.8	1330.1	1175.2
16461.5	65°	11819.9	6255.8	1929.7	1357.8	1376.2	1320.9	1411.3	1400.2	1236.0	1099.5
16983.6	67.5°	12072.6	6086.1	1664.0	1239.7	1282.2	1212.1	1293.2	1267.4	1132.7	1023.9
17435.6	70°	12185.2	5691.3	1361.5	1121.7	1173.3	1105.1	1175.2	1127.2	1016.5	942.7
16939.3	72.5°	11281.2	4730.2	1071.9	998.1	1042.3	987.0	1047.9	992.5	891.1	857.8
14627.7	75°	9333.0	3549.5	824.6	863.4	896.6	854.2	894.7	854.2	761.9	785.9
10805.2	77.5°	6777.9	2396.4	630.9	721.3	736.1	714.0	749.0	702.9	619.9	614.3
5385.1	80°	3370.5	1403.9	494.4	570.1	564.5	549.8	590.3	568.2	498.1	527.6
1453.7	82.5°	975.9	601.4	359.7	400.3	389.3	393.0	422.5	433.5	649.4	643.8
452.0	85°	306.2	236.1	215.8	223.2	212.2	217.7	249.1	494.4	457.5	267.5
140.2	87.5°	79.3	81.2	53.5	57.2	59.0	70.1	79.3	300.7	143.9	94.1
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>
6294.6
5993.9
5348.2
4457.1
3765.3
3444.3
3213.7
3134.4
3110.4
3020.0
2868.7
2745.1
2628.9
2501.6
2359.5
2199.0
1948.1
1830.1
1903.9
1852.2
1640.1
1498.0
1427.9
1339.4
1254.5
1169.6
1092.1
1016.5
928.0
830.2
717.6
586.7
522.1
658.6
289.6
99.6
0.0

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