

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: P942554

Luminaire Tested: **GALN-SB6C-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31721 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

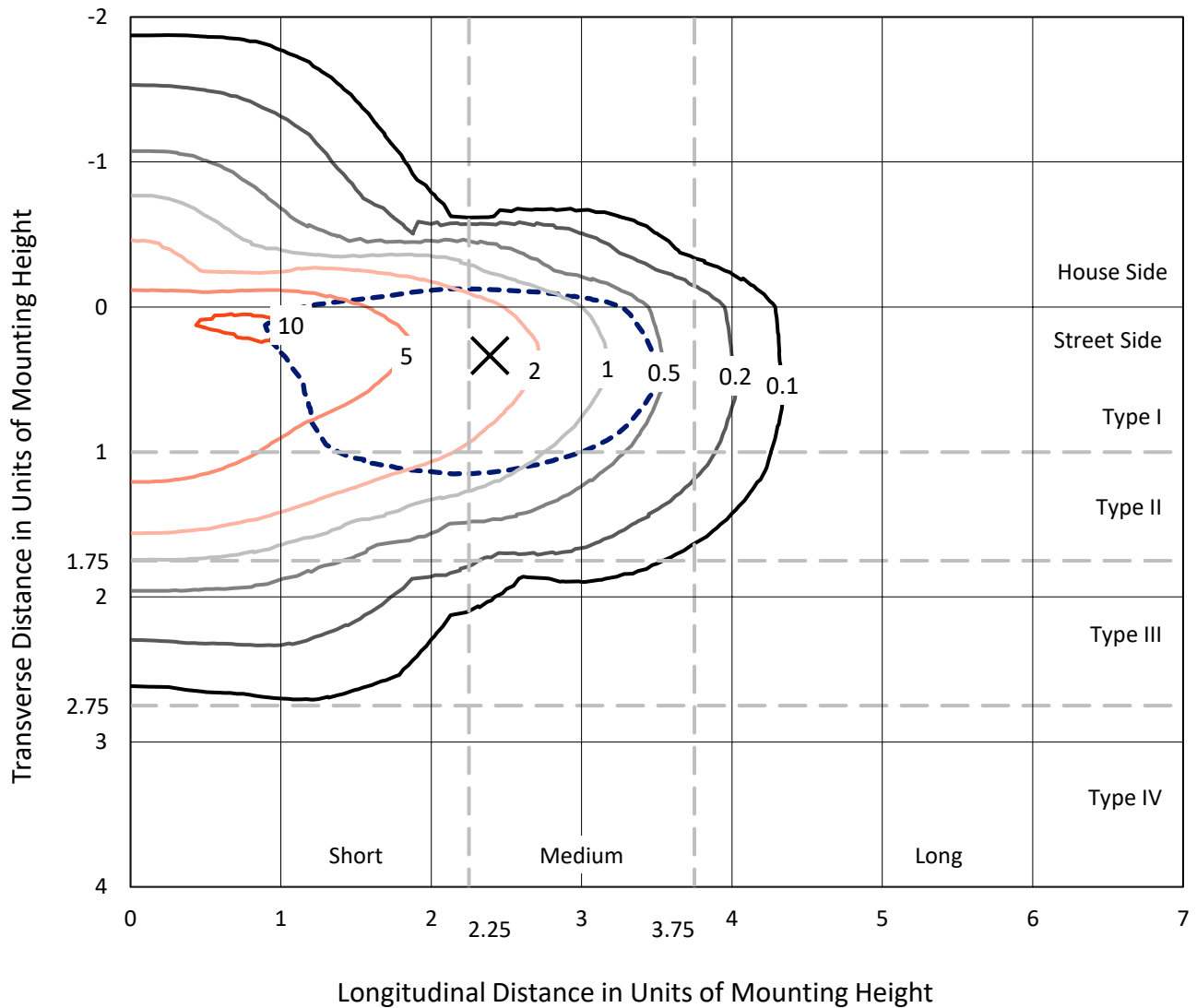
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

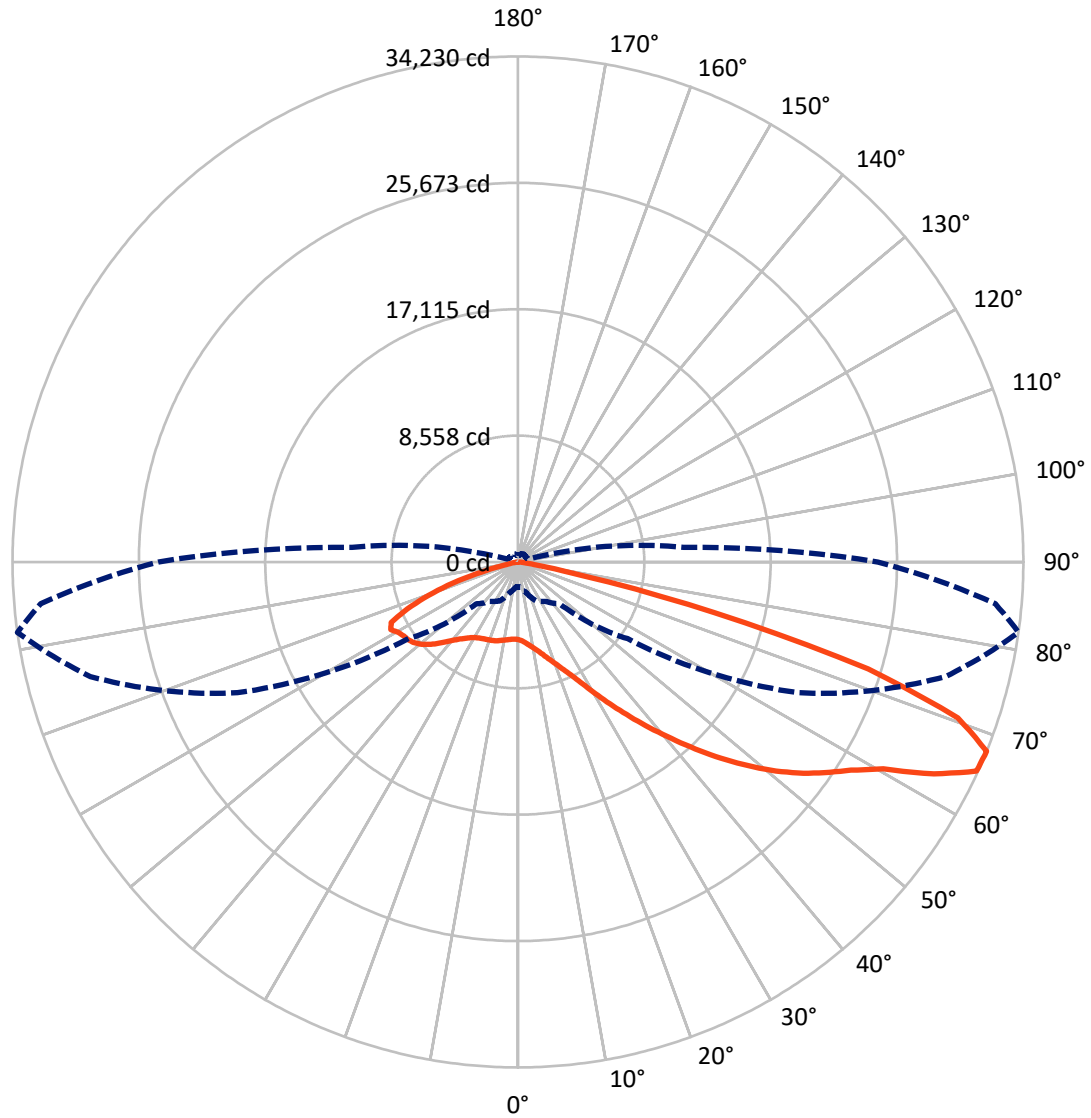
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5746.0	0.0	5746.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25975.0	0.0	25975.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	31721.0	0.0	31721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	1.5
10°-20°	1216.6	3.8
20°-30°	1948.7	6.1
30°-40°	3445.8	10.9
40°-50°	6037.4	19.0
50°-60°	8052.3	25.4
60°-70°	7496.2	23.6
70°-80°	2877.1	9.1
80°-90°	178.7	0.6
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°	31721.0	100.0
0°-180°	31721.0	100.0

Coefficient of Utilization



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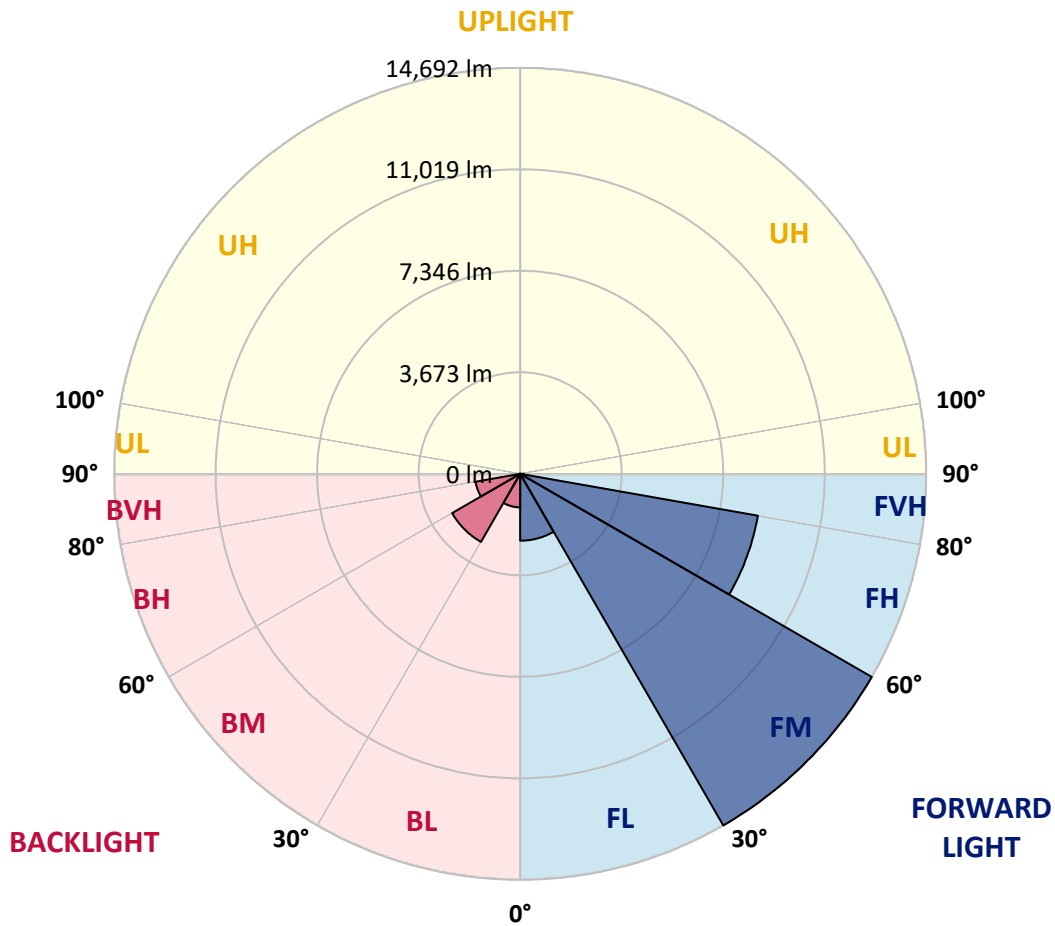
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2420.0	7.6			
FM (30°-60°)	14691.9	46.3			
FH (60°-80°)	8733.3	27.5			G4/12000
FVH (80°-90°)	129.9	0.4			G2/225
BL (0°-30°)	1213.5	3.8	B3/2500		
BM (30°-60°)	2843.7	9.0	B3/5000		
BH (60°-80°)	1640.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	48.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1
2.5°	5554.3	5586.3	5568.0	5558.8	5542.9	5520.0	5501.8	5444.7	5385.3	5346.4
5°	5666.2	5698.2	5695.9	5705.0	5716.4	5723.3	5718.7	5654.8	5570.3	5504.0
7.5°	5570.3	5606.8	5636.5	5682.2	5762.1	5846.6	5887.7	5874.0	5787.2	5695.9
10°	5298.5	5337.3	5408.1	5515.5	5684.5	5867.2	6020.2	6091.0	6036.2	5935.7
12.5°	4800.6	4839.4	4978.8	5211.7	5494.9	5812.4	6104.7	6294.2	6307.9	6207.5
15°	4241.1	4279.9	4428.3	4720.7	5152.3	5661.6	6150.4	6508.9	6630.0	6543.2
17.5°	3893.9	3928.2	4040.1	4275.3	4725.2	5360.2	6134.4	6737.3	7013.6	6945.1
20°	3788.9	3818.6	3871.1	4035.5	4410.1	5047.3	6029.3	6952.0	7427.0	7388.2
22.5°	3900.8	3928.2	3944.2	4017.3	4252.5	4841.7	5896.9	7171.2	7906.6	7911.2
25°	4158.9	4186.3	4168.0	4213.7	4316.4	4777.8	5846.6	7429.3	8509.6	8559.8
27.5°	4583.6	4585.9	4542.5	4540.3	4556.2	4873.7	5899.1	7705.6	9270.1	9363.7
30°	5435.5	5401.3	5234.5	5054.1	4971.9	5161.5	6045.3	8032.2	10167.6	10334.3
32.5°	6748.7	6698.5	6392.4	5960.8	5526.9	5625.1	6307.9	8404.5	11145.1	11446.6
35°	8173.8	8160.1	7840.4	7198.6	6440.4	6285.1	6735.0	8893.2	12211.6	12691.3
37.5°	9498.5	9491.6	9308.9	8552.9	7630.3	7205.5	7420.2	9532.7	13353.6	14047.8
40°	10708.9	10729.4	10546.7	9870.7	8941.2	8386.2	8352.0	10322.9	14623.4	15525.5
42.5°	11754.9	11777.7	11592.7	11092.6	10236.1	9692.6	9496.2	11291.3	15863.5	17112.7
45°	12465.2	12606.7	12579.3	12179.7	11565.3	11001.2	10871.0	12506.3	17277.2	18795.9
47.5°	12666.1	12796.3	13001.9	13056.7	12682.1	12127.1	12282.4	13970.2	18706.9	20481.4
50°	12170.5	12291.6	12718.7	13287.3	13547.7	13376.4	13655.0	15539.2	20170.8	22162.3
52.5°	11193.1	11316.4	11855.4	12755.2	13817.2	14356.2	15032.2	17085.3	21589.1	23754.1
55°	9779.4	9909.5	10601.5	11620.1	13303.3	14760.4	16180.9	18629.2	22888.6	25186.1
57.5°	7856.4	7952.3	8671.7	10096.8	12010.7	14358.4	17028.2	20314.7	24112.7	26592.9
60°	5120.4	5204.9	6040.7	7630.3	9868.4	13015.6	17197.3	22194.3	25738.8	28422.3
62.5°	3405.2	3462.3	3957.9	5124.9	6949.7	10437.1	16208.4	23694.8	28123.1	31605.9
65°	2336.4	2393.5	2889.0	3702.1	4490.0	6904.0	13365.0	23496.1	30283.6	34134.1
67.5°	1667.2	1715.2	2135.4	2902.7	3249.9	4010.4	9060.0	20956.4	29973.0	34230.1
70°	1194.4	1221.8	1569.0	2261.0	2583.0	2409.4	5038.1	16027.9	26243.5	31608.2
72.5°	835.9	845.0	1089.4	1722.0	2080.6	1758.6	2398.0	10686.0	19848.8	24809.3
75°	566.4	577.8	733.1	1263.0	1669.5	1342.9	1269.8	5730.1	11652.1	13732.7
77.5°	347.1	351.7	472.8	863.3	1249.3	1023.2	817.6	2427.7	4508.3	4426.1
80°	196.4	196.4	301.5	536.7	851.9	660.0	573.2	1032.3	1427.4	1253.8
82.5°	109.6	111.9	219.2	333.4	564.1	390.5	315.2	477.3	616.6	545.8
85°	45.7	50.2	134.7	157.6	269.5	194.1	127.9	201.0	228.4	203.3
87.5°	4.6	6.9	41.1	29.7	32.0	38.8	18.3	38.8	32.0	32.0
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°
5255.1	0°	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1	5255.1
5332.7	2.5°	5289.4	5255.1	5168.3	5067.8	4935.4	4871.4	4784.6	4725.2	4675.0	4679.6
5465.2	5°	5392.1	5305.3	5111.2	4869.1	4567.7	4353.0	4124.6	3967.0	3839.1	3811.7
5647.9	7.5°	5533.7	5396.7	5056.4	4620.2	4110.9	3724.9	3380.1	3158.5	3001.0	2950.7
5869.4	10°	5716.4	5517.7	4985.6	4307.3	3574.2	3083.2	2713.2	2539.6	2432.3	2395.7
6129.8	12.5°	5928.8	5657.1	4892.0	3925.9	3021.5	2548.8	2313.5	2226.7	2192.5	2181.1
6449.5	15°	6196.0	5830.6	4750.4	3473.7	2553.3	2222.2	2121.7	2110.3	2114.8	2110.3
6833.2	17.5°	6513.5	6020.2	4519.7	3007.8	2238.2	2055.4	2018.9	2028.0	2039.5	2037.2
7262.6	20°	6860.6	6207.5	4225.1	2594.4	2023.5	1936.7	1916.1	1925.3	1934.4	1929.8
7758.2	22.5°	7255.7	6408.4	3898.5	2272.4	1879.6	1827.1	1804.2	1806.5	1806.5	1797.4
8386.2	25°	7728.5	6630.0	3555.9	2044.0	1770.0	1728.9	1701.5	1692.3	1678.6	1651.2
9149.0	27.5°	8292.6	6865.2	3227.1	1884.2	1683.2	1644.4	1612.4	1589.5	1555.3	1509.6
10064.8	30°	8927.5	7150.7	2948.4	1783.7	1614.7	1575.8	1539.3	1505.0	1454.8	1397.7
11117.7	32.5°	9674.3	7456.7	2745.2	1717.4	1553.0	1511.9	1468.5	1427.4	1372.6	1315.5
12300.7	35°	10565.0	7826.7	2626.4	1671.8	1505.0	1450.2	1402.3	1356.6	1315.5	1265.2
13586.5	37.5°	11531.1	8219.5	2589.9	1648.9	1473.1	1388.6	1333.8	1301.8	1297.2	1267.5
14977.4	40°	12588.5	8685.4	2617.3	1635.2	1438.8	1329.2	1269.8	1263.0	1274.4	1221.8
16464.1	42.5°	13707.6	9238.1	2662.9	1619.2	1390.9	1269.8	1212.7	1212.7	1203.6	1130.5
18035.4	45°	14918.0	9875.3	2708.6	1580.4	1333.8	1210.4	1167.0	1151.1	1112.2	1041.4
19615.8	47.5°	16137.6	10523.9	2742.9	1509.6	1265.2	1160.2	1121.4	1084.8	1027.7	963.8
21166.6	50°	17295.5	11106.3	2706.3	1404.6	1187.6	1112.2	1071.1	1020.9	959.2	915.8
22635.1	52.5°	18330.0	11611.0	2551.0	1281.2	1105.4	1062.0	1025.4	972.9	922.7	877.0
23959.7	55°	19229.9	12019.8	2277.0	1164.8	1032.3	1018.6	982.0	915.8	847.3	808.5
25272.9	57.5°	20093.1	12330.4	1934.4	1068.8	966.1	970.6	915.8	856.4	792.5	751.4
27042.8	60°	21241.9	12746.1	1587.3	979.8	895.3	909.0	849.6	806.2	726.3	673.7
30078.1	62.5°	23078.1	13392.4	1260.7	870.1	813.0	817.6	792.5	740.0	644.0	582.4
32327.6	65°	24535.2	13154.9	993.5	751.4	719.4	726.3	726.3	669.2	566.4	495.6
32448.7	67.5°	24370.8	11263.9	792.5	634.9	630.3	634.9	650.9	602.9	502.4	445.3
29977.6	70°	22450.1	8959.5	634.9	527.6	548.1	536.7	582.4	550.4	452.2	395.1
23240.3	72.5°	18318.6	6454.1	484.2	436.2	420.2	438.5	525.3	495.6	376.8	312.9
12309.9	75°	10704.3	3444.0	360.8	344.9	303.7	365.4	465.9	422.5	287.8	230.7
3772.9	77.5°	3485.1	1201.3	264.9	253.5	226.1	294.6	397.4	356.3	235.2	182.7
1105.4	80°	934.1	363.1	180.4	166.7	146.2	219.2	315.2	283.2	169.0	118.8
475.0	82.5°	374.5	153.0	105.1	93.6	79.9	150.7	248.9	228.4	125.6	75.4
148.4	85°	121.0	50.2	38.8	29.7	36.5	93.6	148.4	155.3	89.1	38.8
22.8	87.5°	16.0	6.9	6.9	9.1	6.9	16.0	45.7	43.4	25.1	4.6
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>
5255.1
4633.9
3750.1
2900.5
2368.3
2174.2
2108.0
2032.6
1927.6
1792.8
1646.6
1505.0
1393.1
1317.8
1260.7
1265.2
1224.1
1130.5
1039.1
961.5
909.0
872.4
803.9
746.8
666.9
577.8
488.7
436.2
388.3
306.0
223.8
175.9
116.5
75.4
29.7
0.0
0.0

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