

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: P943284

Luminaire Tested: **GALN-SB7C-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943284
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-SB7C-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 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: 28182 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

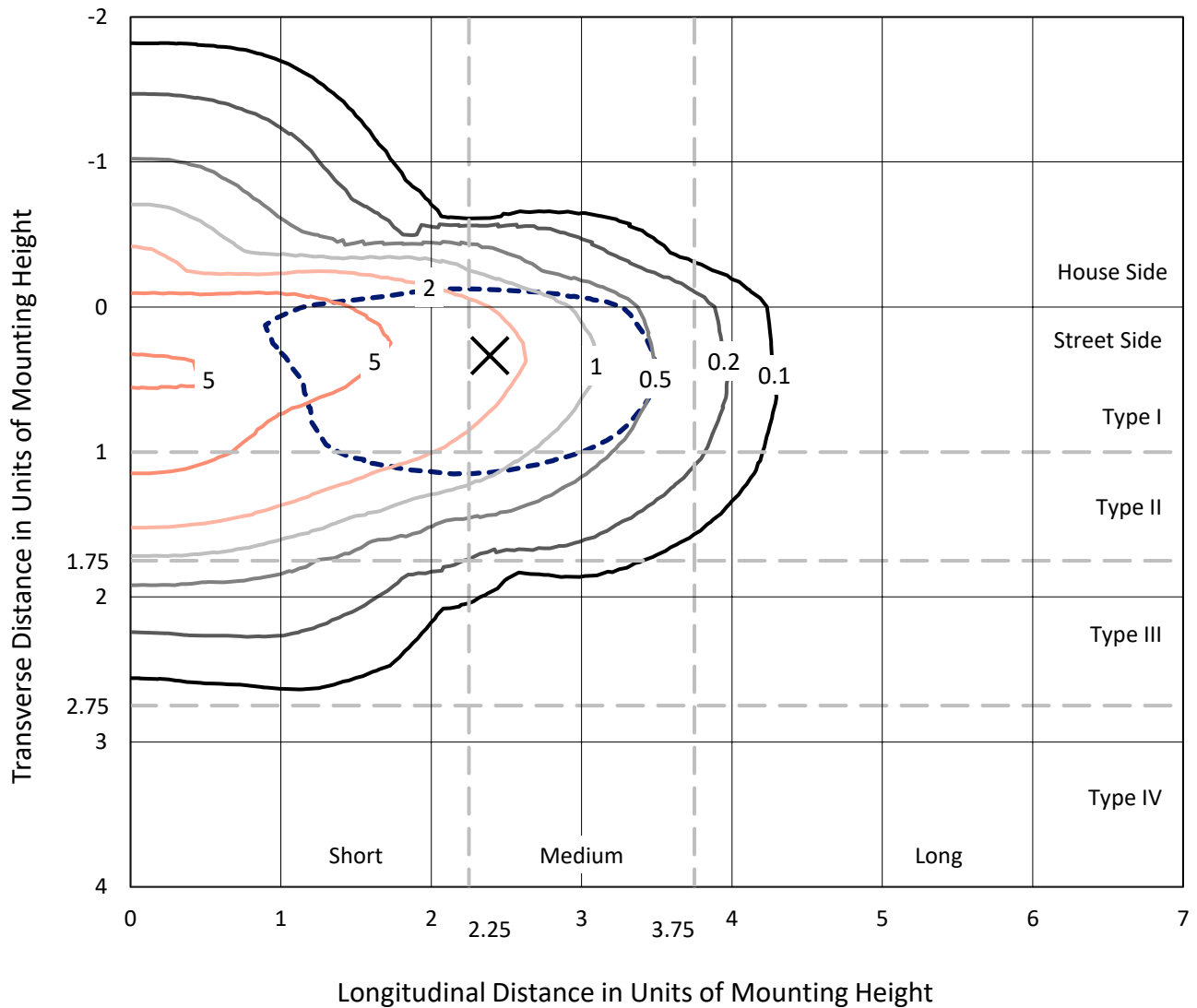
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

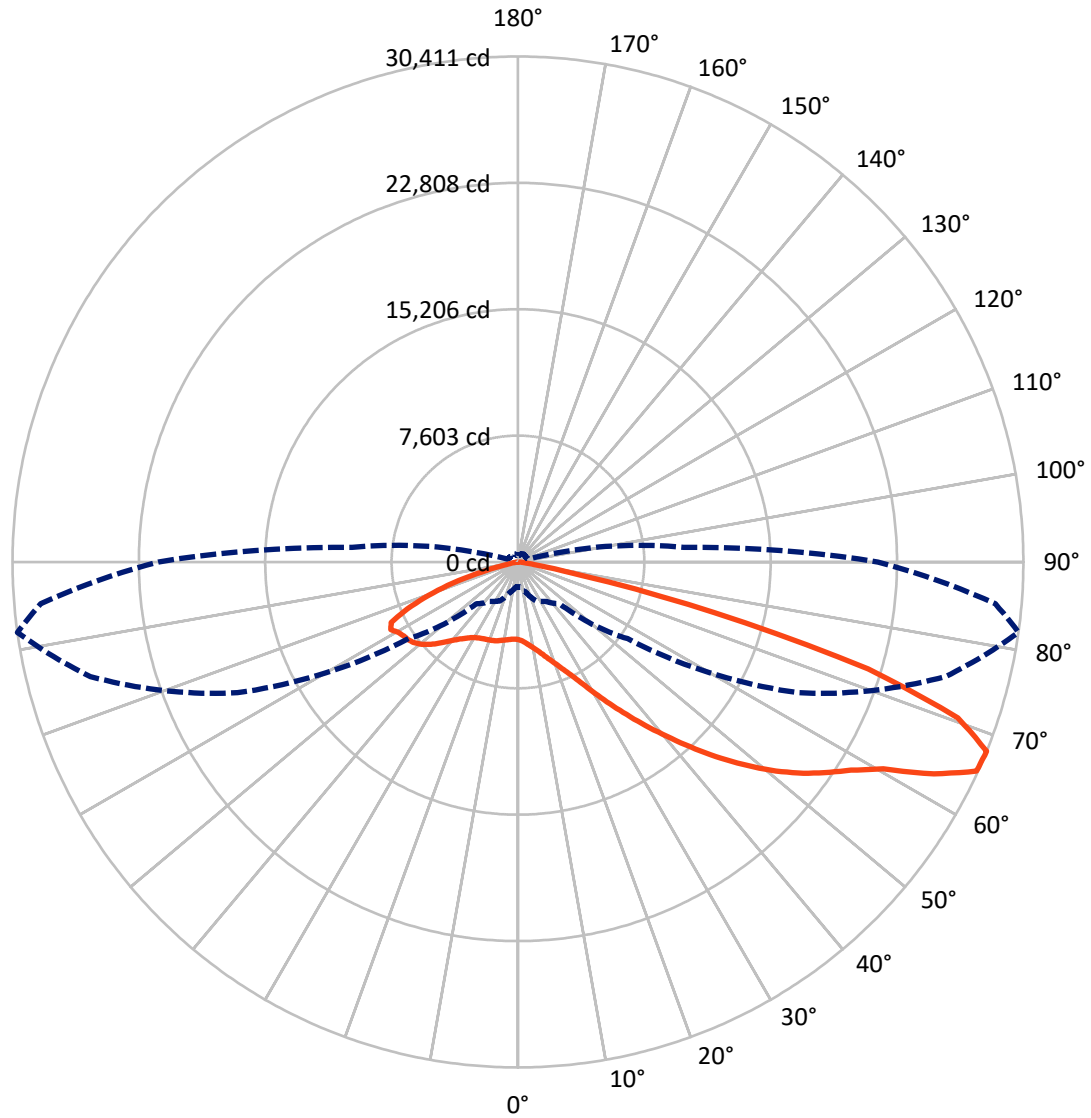
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	5104.9	0.0	5104.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23077.1	0.0	23077.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	28182.0	0.0	28182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.0	1.5
10°-20°	1080.9	3.8
20°-30°	1731.3	6.1
30°-40°	3061.4	10.9
40°-50°	5363.9	19.0
50°-60°	7153.9	25.4
60°-70°	6659.9	23.6
70°-80°	2556.1	9.1
80°-90°	158.8	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°	28182.0	100.0
0°-180°	28182.0	100.0

Coefficient of Utilization



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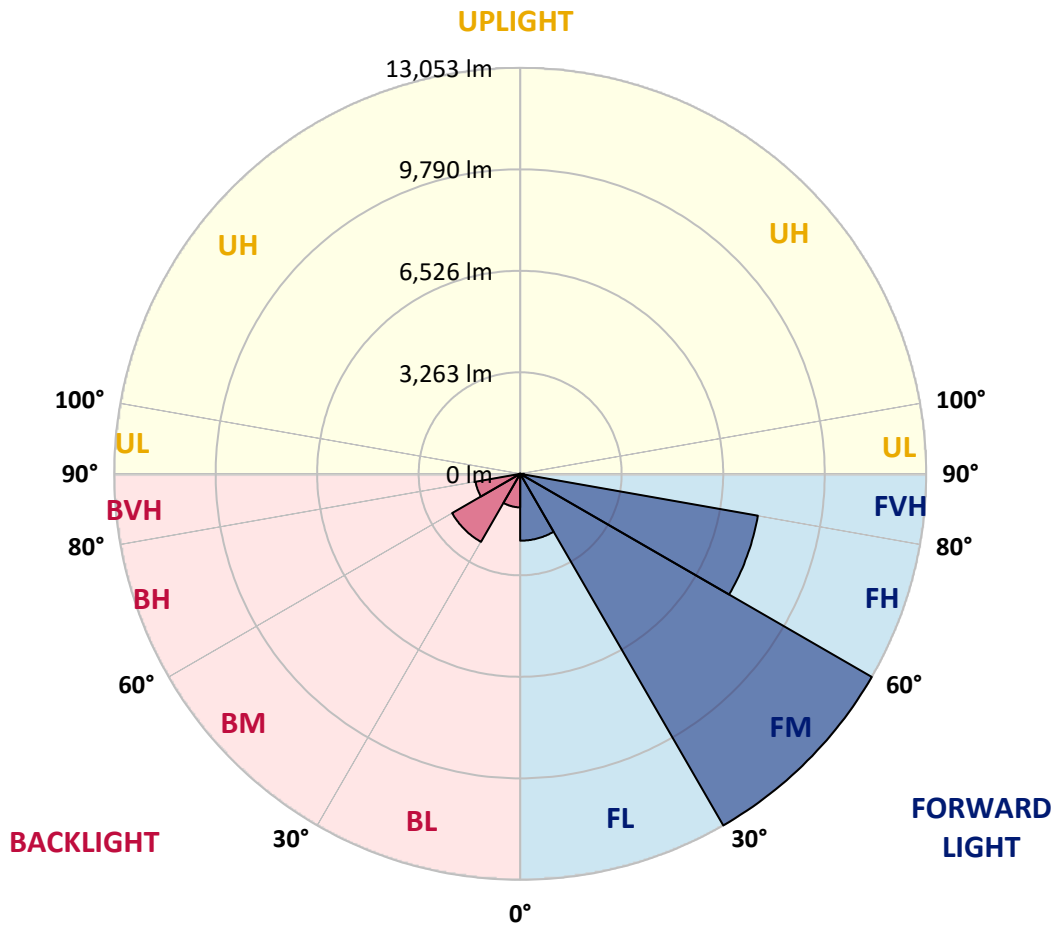
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2150.0	7.6			
FM (30°-60°)	13052.8	46.3			
FH (60°-80°)	7758.9	27.5			G4/12000
FVH (80°-90°)	115.4	0.4			G2/225
BL (0°-30°)	1078.1	3.8	B3/2500		
BM (30°-60°)	2526.4	9.0	B3/5000		
BH (60°-80°)	1457.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	43.3	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°	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8
2.5°	4934.6	4963.0	4946.8	4938.7	4924.5	4904.2	4887.9	4837.2	4784.5	4750.0
5°	5034.0	5062.4	5060.4	5068.5	5078.7	5084.8	5080.7	5023.9	4948.8	4890.0
7.5°	4948.8	4981.3	5007.7	5048.2	5119.2	5194.3	5230.8	5218.7	5141.6	5060.4
10°	4707.4	4741.8	4804.7	4900.1	5050.3	5212.6	5348.5	5411.4	5362.7	5273.5
12.5°	4265.0	4299.5	4423.3	4630.3	4881.9	5163.9	5423.6	5592.0	5604.2	5514.9
15°	3767.9	3802.4	3934.3	4194.0	4577.5	5030.0	5464.2	5782.7	5890.3	5813.2
17.5°	3459.5	3489.9	3589.4	3798.3	4198.1	4762.1	5450.0	5985.6	6231.2	6170.3
20°	3366.2	3392.5	3439.2	3585.3	3918.1	4484.2	5356.6	6176.4	6598.4	6563.9
22.5°	3465.6	3489.9	3504.1	3569.1	3778.1	4301.5	5239.0	6371.2	7024.5	7028.6
25°	3694.9	3719.2	3703.0	3743.6	3834.9	4244.7	5194.3	6600.4	7560.2	7604.8
27.5°	4072.3	4074.3	4035.7	4033.7	4047.9	4330.0	5241.0	6846.0	8235.8	8319.0
30°	4829.1	4798.7	4650.5	4490.2	4417.2	4585.6	5370.8	7136.1	9033.3	9181.4
32.5°	5995.8	5951.2	5679.3	5295.8	4910.3	4997.5	5604.2	7466.8	9901.7	10169.5
35°	7261.9	7249.7	6965.7	6395.5	5721.9	5583.9	5983.6	7901.1	10849.2	11275.3
37.5°	8438.7	8432.7	8270.3	7598.7	6779.0	6401.6	6592.3	8469.2	11863.8	12480.6
40°	9514.1	9532.4	9370.1	8769.5	7943.7	7450.6	7420.2	9171.2	12991.9	13793.4
42.5°	10443.4	10463.7	10299.4	9855.0	9094.1	8611.2	8436.7	10031.5	14093.7	15203.5
45°	11074.5	11200.3	11175.9	10820.8	10275.0	9773.8	9658.2	11111.0	15349.6	16698.9
47.5°	11253.0	11368.7	11551.3	11600.0	11267.2	10774.2	10912.1	12411.6	16619.8	18196.4
50°	10812.7	10920.3	11299.7	11804.9	12036.2	11884.0	12131.6	13805.5	17920.4	19689.7
52.5°	9944.3	10053.9	10532.7	11332.1	12275.6	12754.5	13355.1	15179.2	19180.4	21104.0
55°	8688.3	8804.0	9418.8	10323.7	11819.1	13113.6	14375.7	16550.8	20335.0	22376.2
57.5°	6979.9	7065.1	7704.2	8970.4	10670.7	12756.5	15128.5	18048.2	21422.5	23626.1
60°	4549.1	4624.2	5366.8	6779.0	8767.4	11563.5	15278.6	19718.1	22867.2	25251.3
62.5°	3025.3	3076.0	3516.3	4553.1	6174.3	9272.7	14400.0	21051.2	24985.5	28079.8
65°	2075.7	2126.4	2566.7	3289.1	3989.1	6133.8	11873.9	20874.7	26905.0	30325.9
67.5°	1481.2	1523.8	1897.1	2578.9	2887.3	3563.0	8049.2	18618.4	26629.0	30411.1
70°	1061.2	1085.5	1393.9	2008.7	2294.8	2140.6	4476.0	14239.7	23315.6	28081.8
72.5°	742.6	750.7	967.8	1529.9	1848.4	1562.4	2130.5	9493.8	17634.3	22041.4
75°	503.2	513.3	651.3	1122.1	1483.2	1193.1	1128.1	5090.8	10352.1	12200.6
77.5°	308.4	312.5	420.0	767.0	1109.9	909.0	726.4	2156.9	4005.3	3932.3
80°	174.5	174.5	267.8	476.8	756.8	586.4	509.3	917.1	1268.1	1113.9
82.5°	97.4	99.4	194.8	296.2	501.2	347.0	280.0	424.1	547.8	484.9
85°	40.6	44.6	119.7	140.0	239.4	172.5	113.6	178.6	202.9	180.6
87.5°	4.1	6.1	36.5	26.4	28.4	34.5	16.2	34.5	28.4	28.4
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°
4668.8	0°	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8	4668.8
4737.8	2.5°	4699.2	4668.8	4591.7	4502.4	4384.7	4327.9	4250.8	4198.1	4153.4	4157.5
4855.5	5°	4790.5	4713.4	4541.0	4325.9	4058.1	3867.3	3664.4	3524.4	3410.8	3386.5
5017.8	7.5°	4916.3	4794.6	4492.3	4104.7	3652.3	3309.4	3003.0	2806.2	2666.1	2621.5
5214.6	10°	5078.7	4902.1	4429.4	3826.8	3175.4	2739.2	2410.5	2256.3	2160.9	2128.5
5445.9	12.5°	5267.4	5025.9	4346.2	3487.9	2684.4	2264.4	2055.4	1978.3	1947.9	1937.7
5730.0	15°	5504.8	5180.1	4220.4	3086.2	2268.5	1974.2	1885.0	1874.8	1878.9	1874.8
6070.9	17.5°	5786.8	5348.5	4015.5	2672.2	1988.5	1826.1	1793.7	1801.8	1811.9	1809.9
6452.3	20°	6095.2	5514.9	3753.7	2305.0	1797.7	1720.6	1702.4	1710.5	1718.6	1714.5
6892.6	22.5°	6446.2	5693.5	3463.6	2018.9	1669.9	1623.2	1602.9	1605.0	1605.0	1596.8
7450.6	25°	6866.2	5890.3	3159.2	1816.0	1572.5	1536.0	1511.6	1503.5	1491.3	1467.0
8128.3	27.5°	7367.4	6099.3	2867.0	1674.0	1495.4	1460.9	1432.5	1412.2	1381.8	1341.2
8941.9	30°	7931.5	6352.9	2619.5	1584.7	1434.5	1400.0	1367.6	1337.1	1292.5	1241.8
9877.3	32.5°	8595.0	6624.8	2438.9	1525.8	1379.7	1343.2	1304.7	1268.1	1219.4	1168.7
10928.4	35°	9386.3	6953.5	2333.4	1485.3	1337.1	1288.4	1245.8	1205.2	1168.7	1124.1
12070.7	37.5°	10244.6	7302.5	2300.9	1465.0	1308.7	1233.7	1185.0	1156.5	1152.5	1126.1
13306.4	40°	11184.0	7716.4	2325.3	1452.8	1278.3	1180.9	1128.1	1122.1	1132.2	1085.5
14627.3	42.5°	12178.3	8207.4	2365.9	1438.6	1235.7	1128.1	1077.4	1077.4	1069.3	1004.4
16023.3	45°	13253.6	8773.5	2406.4	1404.1	1185.0	1075.4	1036.8	1022.6	988.1	925.2
17427.4	47.5°	14337.1	9349.8	2436.9	1341.2	1124.1	1030.7	996.3	963.8	913.1	856.3
18805.1	50°	15365.9	9867.2	2404.4	1247.9	1055.1	988.1	951.6	907.0	852.2	813.6
20109.7	52.5°	16285.0	10315.6	2266.4	1138.3	982.1	943.5	911.0	864.4	819.7	779.1
21286.6	55°	17084.5	10678.8	2022.9	1034.8	917.1	904.9	872.5	813.6	752.8	718.3
22453.3	57.5°	17851.4	10954.7	1718.6	949.6	858.3	862.3	813.6	760.9	704.1	667.6
24025.8	60°	18872.0	11324.0	1410.2	870.5	795.4	807.6	754.8	716.2	645.2	598.6
26722.4	62.5°	20503.4	11898.2	1120.0	773.1	722.3	726.4	704.1	657.4	572.2	517.4
28721.0	65°	21797.9	11687.2	882.6	667.6	639.1	645.2	645.2	594.5	503.2	440.3
28828.5	67.5°	21651.8	10007.2	704.1	564.1	560.0	564.1	578.3	535.7	446.4	395.7
26633.1	70°	19945.4	7959.9	564.1	468.7	487.0	476.8	517.4	489.0	401.7	351.0
20647.4	72.5°	16274.9	5734.0	430.2	387.5	373.3	389.6	466.7	440.3	334.8	278.0
10936.5	75°	9510.1	3059.8	320.6	306.4	269.9	324.6	413.9	375.4	255.7	204.9
3352.0	77.5°	3096.3	1067.3	235.4	225.2	200.9	261.7	353.1	316.5	209.0	162.3
982.1	80°	829.9	322.6	160.3	148.1	129.9	194.8	280.0	251.6	150.1	105.5
422.0	82.5°	332.8	135.9	93.3	83.2	71.0	133.9	221.2	202.9	111.6	67.0
131.9	85°	107.5	44.6	34.5	26.4	32.5	83.2	131.9	138.0	79.1	34.5
20.3	87.5°	14.2	6.1	6.1	8.1	6.1	14.2	40.6	38.6	22.3	4.1
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>
4668.8
4116.9
3331.7
2576.9
2104.1
1931.6
1872.8
1805.8
1712.5
1592.8
1462.9
1337.1
1237.7
1170.8
1120.0
1124.1
1087.6
1004.4
923.2
854.2
807.6
775.1
714.2
663.5
592.5
513.3
434.2
387.5
344.9
271.9
198.8
156.2
103.5
67.0
26.4
0.0
0.0

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