

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: P944484

Luminaire Tested: **GALN-SB9B-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944484
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-SB9B-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA 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: 26054 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

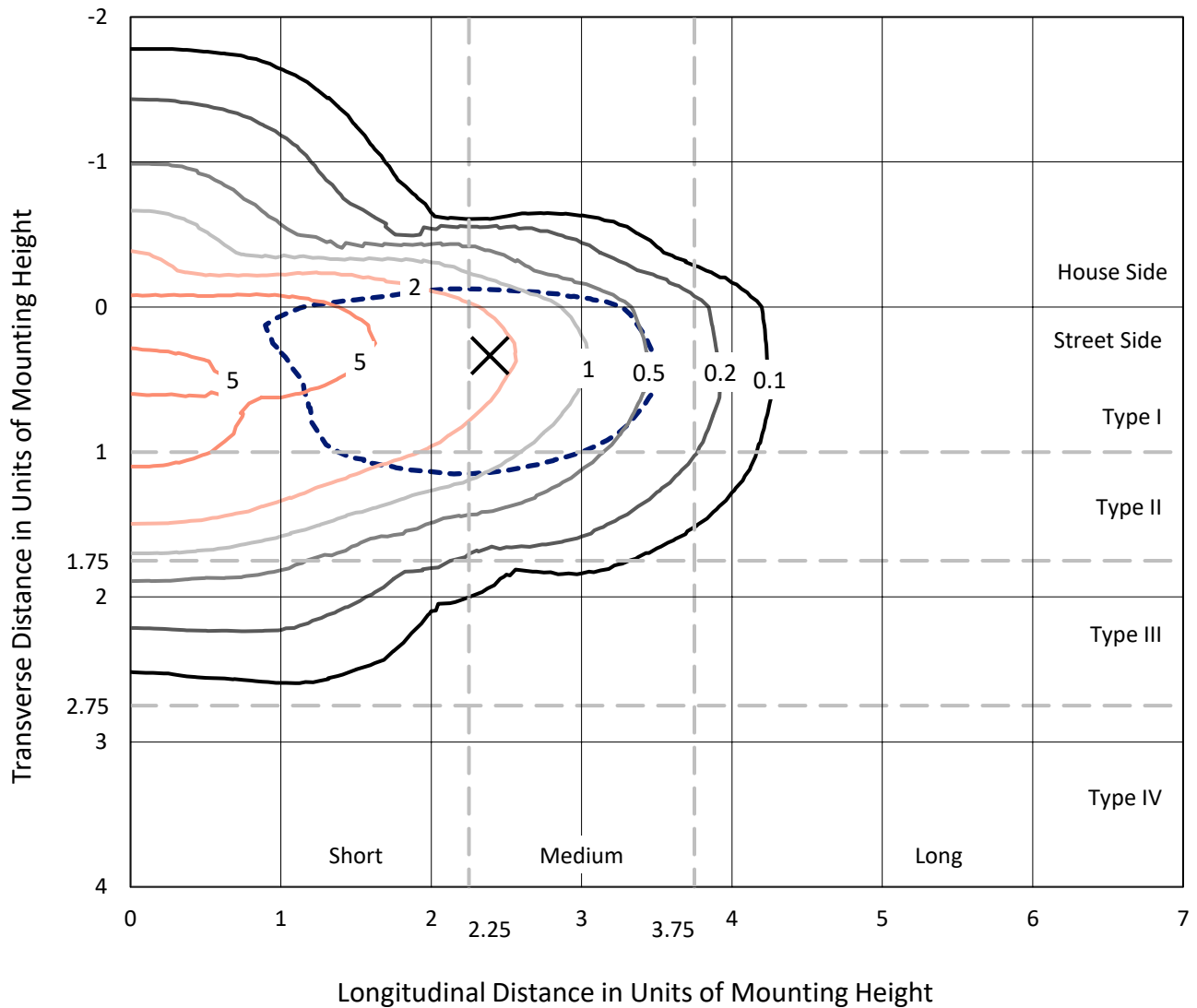
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

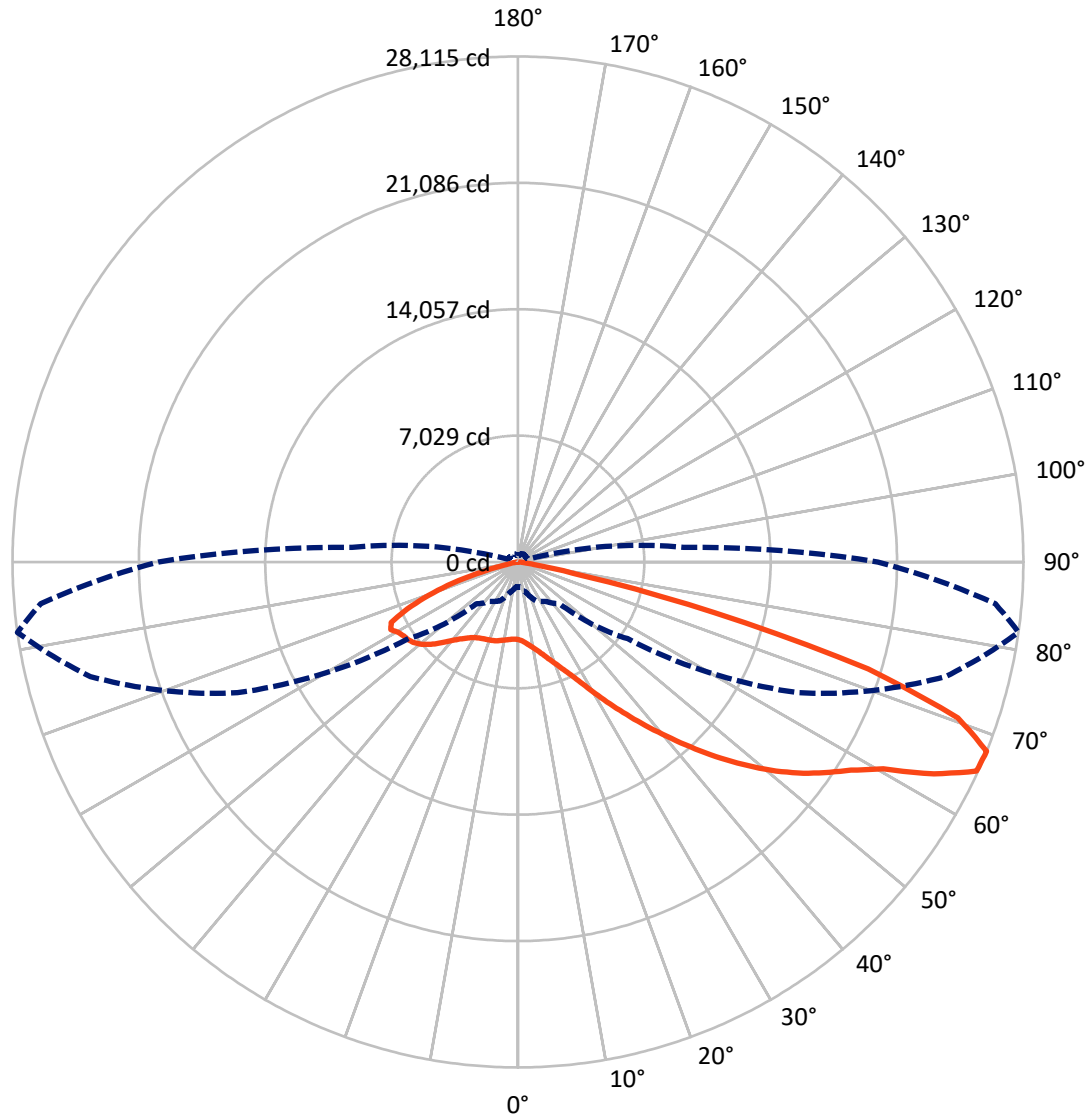
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4719.5	0.0	4719.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21334.6	0.0	21334.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	26054.0	0.0	26054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	1.5
10°-20°	999.3	3.8
20°-30°	1600.5	6.1
30°-40°	2830.2	10.9
40°-50°	4958.8	19.0
50°-60°	6613.7	25.4
60°-70°	6157.0	23.6
70°-80°	2363.1	9.1
80°-90°	146.8	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°	26054.0	100.0
0°-180°	26054.0	100.0

Coefficient of Utilization



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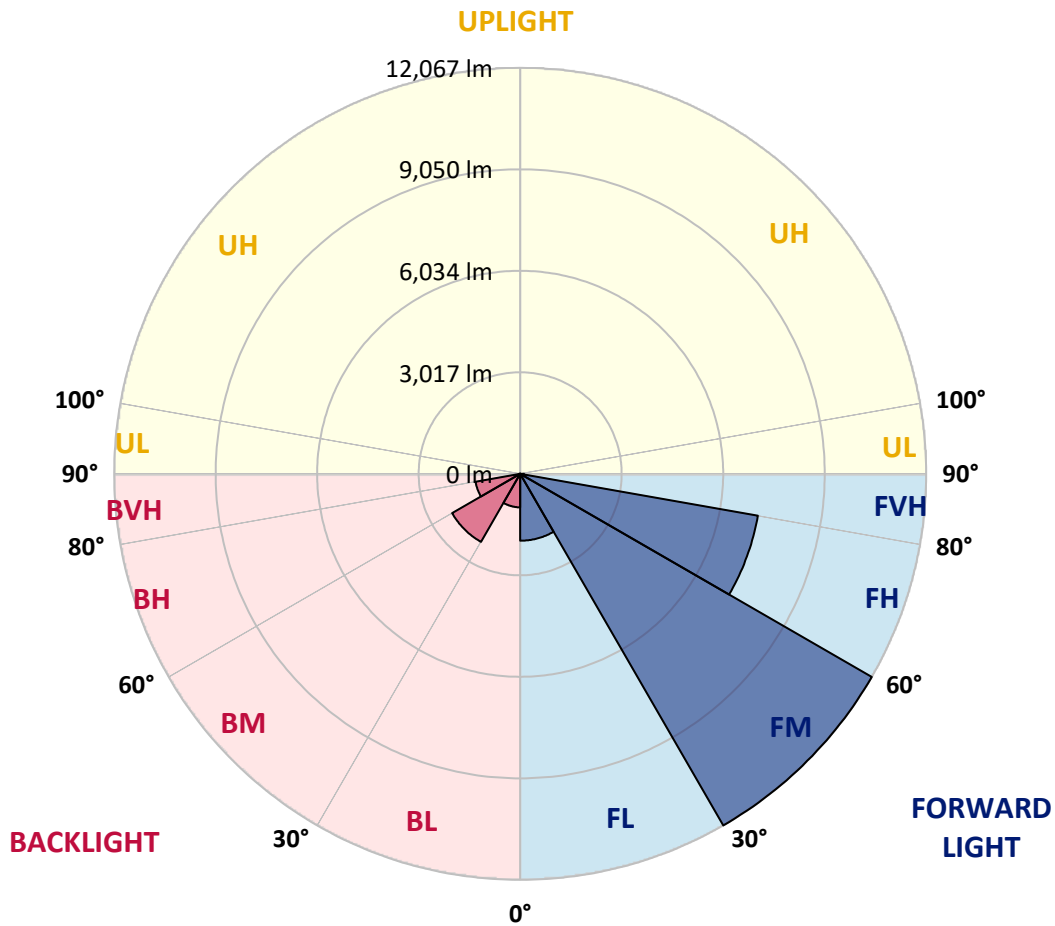
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1987.6	7.6			
FM (30°-60°)	12067.1	46.3			
FH (60°-80°)	7173.1	27.5			G3/7500
FVH (80°-90°)	106.7	0.4			G2/225
BL (0°-30°)	996.7	3.8	B2/1000		
BM (30°-60°)	2335.6	9.0	B2/2500		
BH (60°-80°)	1347.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	40.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3
2.5°	4562.0	4588.3	4573.3	4565.8	4552.6	4533.9	4518.9	4472.0	4423.2	4391.3
5°	4653.9	4680.2	4678.3	4685.8	4695.2	4700.8	4697.1	4644.5	4575.1	4520.7
7.5°	4575.1	4605.1	4629.5	4667.0	4732.7	4802.1	4835.9	4824.6	4753.3	4678.3
10°	4351.9	4383.8	4441.9	4530.1	4668.9	4819.0	4944.7	5002.8	4957.8	4875.3
12.5°	3943.0	3974.9	4089.3	4280.6	4513.2	4774.0	5014.1	5169.8	5181.0	5098.5
15°	3483.4	3515.3	3637.2	3877.3	4231.9	4650.2	5051.6	5346.1	5445.5	5374.2
17.5°	3198.3	3226.4	3318.3	3511.5	3881.1	4402.6	5038.5	5533.7	5760.6	5704.4
20°	3112.0	3136.4	3179.5	3314.6	3622.2	4145.6	4952.2	5710.0	6100.2	6068.3
22.5°	3203.9	3226.4	3239.5	3299.6	3492.8	3976.7	4843.4	5890.1	6494.1	6497.8
25°	3415.9	3438.4	3423.4	3460.9	3545.3	3924.2	4802.1	6102.0	6989.3	7030.6
27.5°	3764.8	3766.7	3731.0	3729.1	3742.3	4003.0	4845.2	6329.0	7614.0	7690.9
30°	4464.5	4436.3	4299.4	4151.2	4083.7	4239.4	4965.3	6597.3	8351.2	8488.1
32.5°	5543.1	5501.8	5250.4	4895.9	4539.5	4620.1	5181.0	6903.0	9154.0	9401.6
35°	6713.6	6702.3	6439.7	5912.6	5289.8	5162.3	5531.8	7304.5	10030.0	10423.9
37.5°	7801.5	7795.9	7645.8	7025.0	6267.1	5918.2	6094.5	7829.7	10967.9	11538.2
40°	8795.7	8812.6	8662.5	8107.3	7343.8	6888.0	6859.9	8478.7	12010.9	12751.8
42.5°	9654.9	9673.6	9521.7	9110.9	8407.4	7961.0	7799.7	9274.1	13029.5	14055.5
45°	10238.2	10354.5	10332.0	10003.8	9499.2	9035.8	8928.9	10272.0	14190.6	15438.0
47.5°	10403.3	10510.2	10679.1	10724.1	10416.4	9960.6	10088.2	11474.4	15364.9	16822.4
50°	9996.3	10095.7	10446.5	10913.5	11127.4	10986.7	11215.5	12763.1	16567.3	18203.0
52.5°	9193.4	9294.7	9737.4	10476.5	11348.7	11791.4	12346.7	14033.0	17732.1	19510.4
55°	8032.3	8139.2	8707.6	9544.2	10926.7	12123.4	13290.2	15301.1	18799.5	20686.6
57.5°	6452.8	6531.6	7122.5	8293.0	9864.9	11793.3	13986.1	16685.4	19804.9	21842.1
60°	4205.6	4275.0	4961.5	6267.1	8105.4	10690.3	14124.9	18229.2	21140.5	23344.6
62.5°	2796.9	2843.7	3250.8	4209.3	5708.1	8572.5	13312.7	19461.7	23098.9	25959.5
65°	1919.0	1965.9	2372.9	3040.7	3687.9	5670.6	10977.3	19298.5	24873.4	28036.0
67.5°	1369.3	1408.7	1753.9	2384.2	2669.3	3293.9	7441.4	17212.5	24618.3	28114.8
70°	981.1	1003.6	1288.7	1857.1	2121.6	1979.0	4138.1	13164.5	21555.1	25961.4
72.5°	686.6	694.1	894.8	1414.4	1708.9	1444.4	1969.6	8777.0	16302.8	20377.1
75°	465.2	474.6	602.1	1037.3	1371.2	1103.0	1043.0	4706.4	9570.4	11279.3
77.5°	285.1	288.9	388.3	709.1	1026.1	840.4	671.5	1994.0	3702.9	3635.3
80°	161.3	161.3	247.6	440.8	699.7	542.1	470.8	847.9	1172.4	1029.8
82.5°	90.0	91.9	180.1	273.9	463.3	320.8	258.9	392.0	506.5	448.3
85°	37.5	41.3	110.7	129.4	221.3	159.4	105.0	165.1	187.6	166.9
87.5°	3.8	5.6	33.8	24.4	26.3	31.9	15.0	31.9	26.3	26.3
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°
4316.3	0°	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3
4380.0	2.5°	4344.4	4316.3	4245.0	4162.4	4053.7	4001.1	3929.8	3881.1	3839.8	3843.6
4488.8	5°	4428.8	4357.5	4198.1	3999.3	3751.6	3575.3	3387.7	3258.3	3153.3	3130.7
4638.9	7.5°	4545.1	4432.6	4153.1	3794.8	3376.5	3059.5	2776.2	2594.3	2464.8	2423.6
4820.9	10°	4695.2	4532.0	4094.9	3537.8	2935.7	2532.4	2228.5	2085.9	1997.8	1967.7
5034.7	12.5°	4869.6	4646.4	4018.0	3224.5	2481.7	2093.4	1900.2	1828.9	1800.8	1791.4
5297.3	15°	5089.1	4789.0	3901.7	2853.1	2097.2	1825.2	1742.6	1733.3	1737.0	1733.3
5612.5	17.5°	5349.8	4944.7	3712.3	2470.5	1838.3	1688.2	1658.2	1665.7	1675.1	1673.2
5965.1	20°	5635.0	5098.5	3470.3	2130.9	1662.0	1590.7	1573.8	1581.3	1588.8	1585.1
6372.2	22.5°	5959.5	5263.6	3202.0	1866.4	1543.8	1500.7	1481.9	1483.8	1483.8	1476.3
6888.0	25°	6347.8	5445.5	2920.7	1678.9	1453.8	1420.0	1397.5	1390.0	1378.7	1356.2
7514.5	27.5°	6811.1	5638.7	2650.5	1547.6	1382.5	1350.6	1324.3	1305.6	1277.4	1239.9
8266.7	30°	7332.6	5873.2	2421.7	1465.0	1326.2	1294.3	1264.3	1236.2	1194.9	1148.0
9131.5	32.5°	7946.0	6124.6	2254.7	1410.6	1275.6	1241.8	1206.2	1172.4	1127.4	1080.5
10103.2	35°	8677.6	6428.4	2157.2	1373.1	1236.2	1191.1	1151.8	1114.2	1080.5	1039.2
11159.3	37.5°	9471.0	6751.1	2127.2	1354.3	1209.9	1140.5	1095.5	1069.2	1065.5	1041.1
12301.6	40°	10339.5	7133.8	2149.7	1343.1	1181.8	1091.7	1043.0	1037.3	1046.7	1003.6
13522.8	42.5°	11258.7	7587.7	2187.2	1330.0	1142.4	1043.0	996.1	996.1	988.6	928.5
14813.4	45°	12252.9	8111.1	2224.7	1298.1	1095.5	994.2	958.5	945.4	913.5	855.4
16111.4	47.5°	13254.6	8643.8	2252.9	1239.9	1039.2	952.9	921.0	891.0	844.1	791.6
17385.1	50°	14205.6	9122.1	2222.8	1153.6	975.4	913.5	879.8	838.5	787.8	752.2
18591.3	52.5°	15055.3	9536.7	2095.3	1052.3	907.9	872.3	842.2	799.1	757.8	720.3
19679.2	55°	15794.4	9872.5	1870.2	956.7	847.9	836.6	806.6	752.2	695.9	664.0
20757.8	57.5°	16503.5	10127.6	1588.8	877.9	793.5	797.2	752.2	703.4	650.9	617.1
22211.6	60°	17447.0	10469.0	1303.7	804.7	735.3	746.6	697.8	662.2	596.5	553.4
24704.6	62.5°	18955.2	10999.8	1035.5	714.7	667.8	671.5	650.9	607.8	529.0	478.3
26552.3	65°	20152.0	10804.7	816.0	617.1	590.9	596.5	596.5	549.6	465.2	407.1
26651.7	67.5°	20016.9	9251.6	650.9	521.5	517.7	521.5	534.6	495.2	412.7	365.8
24622.0	70°	18439.3	7358.8	521.5	433.3	450.2	440.8	478.3	452.1	371.4	324.5
19088.4	72.5°	15046.0	5301.1	397.7	358.3	345.2	360.2	431.4	407.1	309.5	257.0
10110.7	75°	8792.0	2828.7	296.4	283.2	249.5	300.1	382.7	347.0	236.4	189.5
3098.9	77.5°	2862.5	986.7	217.6	208.2	185.7	242.0	326.4	292.6	193.2	150.1
907.9	80°	767.2	298.3	148.2	136.9	120.1	180.1	258.9	232.6	138.8	97.5
390.2	82.5°	307.6	125.7	86.3	76.9	65.7	123.8	204.5	187.6	103.2	61.9
121.9	85°	99.4	41.3	31.9	24.4	30.0	76.9	121.9	127.6	73.2	31.9
18.8	87.5°	13.1	5.6	5.6	7.5	5.6	13.1	37.5	35.6	20.6	3.8
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>
4316.3
3806.0
3080.1
2382.3
1945.2
1785.8
1731.4
1669.5
1583.2
1472.5
1352.5
1236.2
1144.3
1082.3
1035.5
1039.2
1005.4
928.5
853.5
789.7
746.6
716.6
660.3
613.4
547.7
474.6
401.4
358.3
318.9
251.4
183.8
144.4
95.7
61.9
24.4
0.0
0.0

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