

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: P945057

Luminaire Tested: **GALN-SB1A-840-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3573 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

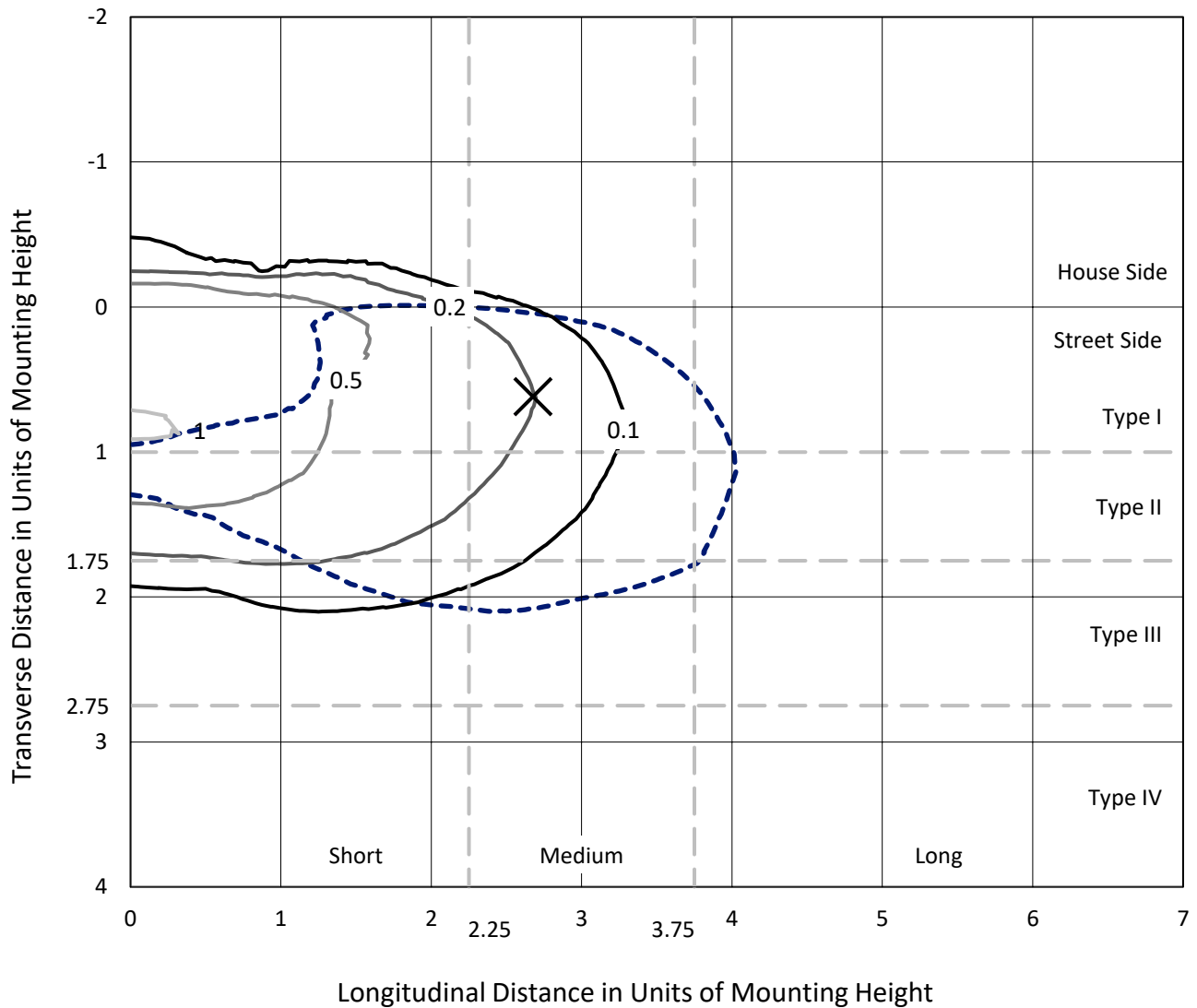
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

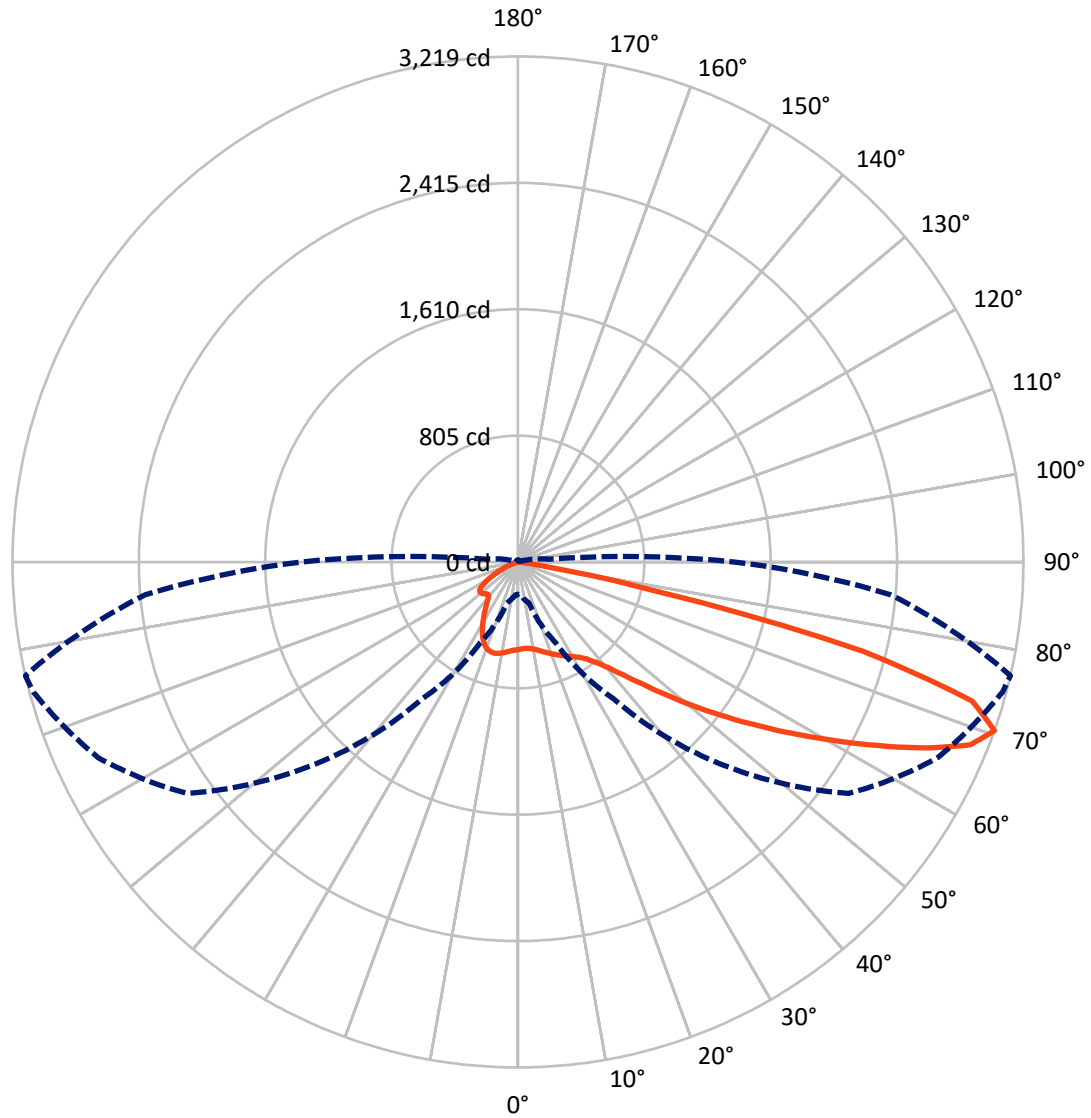
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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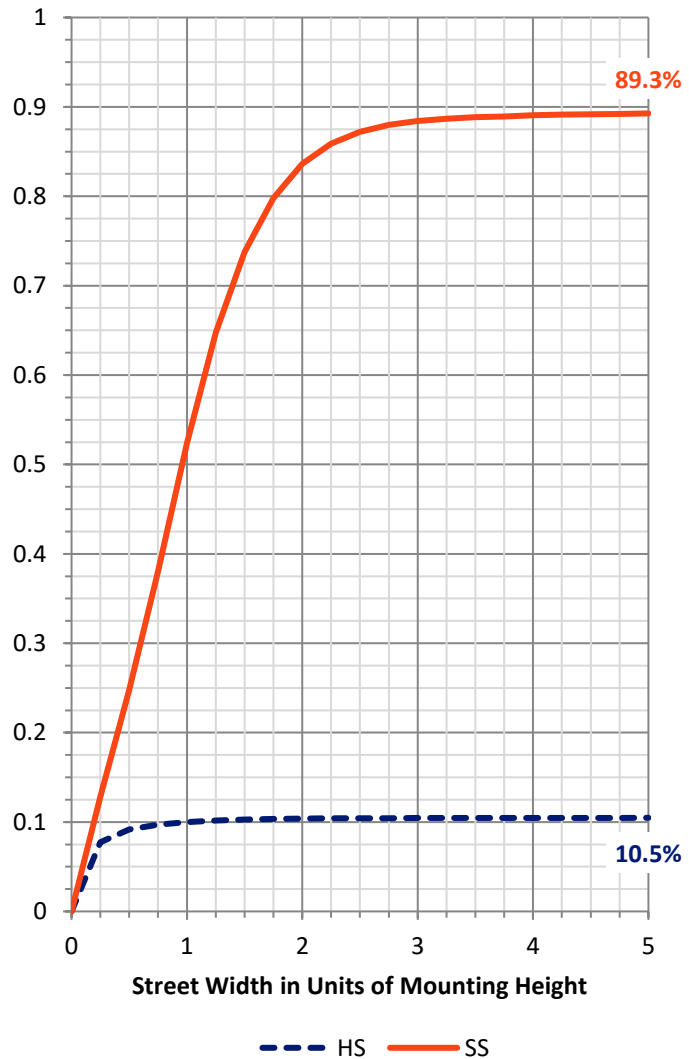
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.6	0.0	376.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3196.4	0.0	3196.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	3573.0	0.0	3573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	1.3
10°-20°	114.0	3.2
20°-30°	176.4	4.9
30°-40°	320.0	9.0
40°-50°	604.1	16.9
50°-60°	872.8	24.4
60°-70°	929.1	26.0
70°-80°	492.4	13.8
80°-90°	16.2	0.5
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°	3573.0	100.0
0°-180°	3573.0	100.0

Coefficient of Utilization



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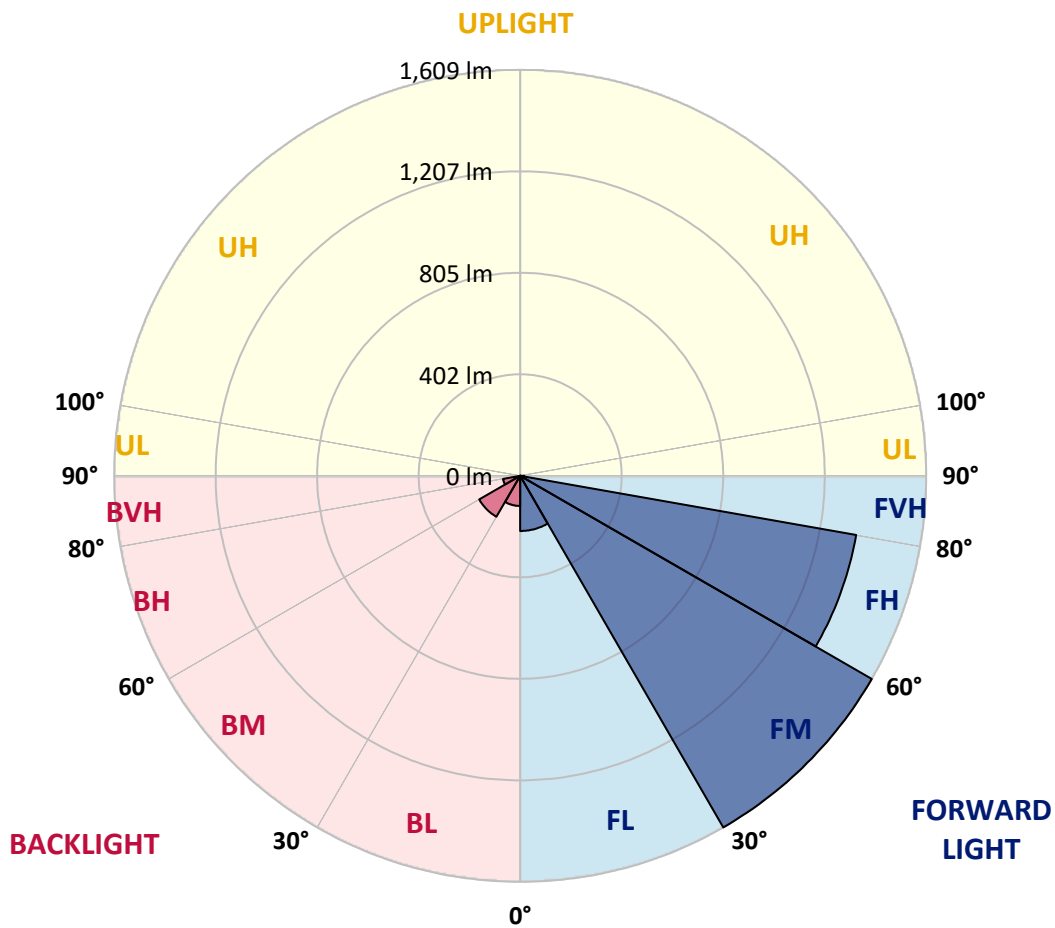
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.8	6.1			
FM (30°-60°)	1609.4	45.0			
FH (60°-80°)	1352.4	37.9			G1/1800
FVH (80°-90°)	15.7	0.4			G1/100
BL (0°-30°)	119.7	3.3	B1/500		
BM (30°-60°)	187.5	5.2	B0/220		
BH (60°-80°)	69.1	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	557.3	557.3	557.3	557.3	557.3	557.3	557.3	557.3	557.3	557.3
2.5°	523.3	528.0	527.3	530.5	531.6	536.1	540.6	546.7	553.5	553.3
5°	493.7	498.4	499.6	503.8	509.3	516.3	525.5	537.7	550.3	552.4
7.5°	458.7	463.7	466.6	475.2	485.1	499.6	514.7	532.5	553.5	556.4
10°	423.7	428.3	432.1	444.3	460.1	481.5	506.1	531.8	560.0	564.3
12.5°	402.1	406.4	410.7	421.3	440.9	467.1	500.5	535.0	570.9	577.0
15°	394.4	398.2	401.6	411.1	429.4	459.2	499.3	541.5	584.6	592.7
17.5°	395.5	397.6	399.8	407.0	424.9	455.6	501.4	552.8	600.9	608.1
20°	402.1	403.2	403.4	408.4	424.2	455.1	505.4	563.6	616.2	625.9
22.5°	410.4	410.9	410.4	413.8	428.5	458.5	510.8	576.7	633.4	642.4
25°	449.5	440.9	430.1	423.5	435.7	465.0	519.0	594.3	652.1	660.9
27.5°	570.6	546.0	507.2	463.7	450.6	474.5	530.2	612.2	671.0	678.9
30°	767.4	735.1	669.2	571.1	498.4	494.4	544.9	630.0	691.1	699.7
32.5°	964.6	956.7	880.7	744.8	606.1	538.6	569.3	654.1	717.8	724.5
35°	1164.1	1148.0	1085.8	951.5	771.9	628.6	609.9	685.7	752.7	760.4
37.5°	1316.8	1307.1	1268.5	1158.0	968.7	767.6	679.4	734.7	803.5	812.1
40°	1451.7	1447.2	1434.1	1361.3	1188.7	949.5	787.5	810.5	873.9	884.0
42.5°	1557.8	1568.4	1575.8	1555.5	1415.4	1157.1	932.8	917.0	972.0	982.4
45°	1666.3	1669.9	1699.9	1729.3	1640.6	1374.1	1096.6	1041.8	1094.1	1107.0
47.5°	1736.1	1750.5	1803.3	1855.0	1829.9	1589.4	1272.6	1189.1	1235.6	1259.7
50°	1741.2	1768.5	1841.2	1931.2	1967.8	1794.3	1463.9	1357.0	1406.4	1433.0
52.5°	1654.8	1697.2	1809.8	1941.6	2042.2	1967.8	1661.8	1524.9	1588.3	1623.0
55°	1268.8	1324.3	1691.8	1885.2	2045.2	2099.3	1854.5	1699.7	1790.9	1830.1
57.5°	1105.4	1133.4	1330.1	1787.3	1990.8	2152.4	2028.7	1866.2	2011.3	2060.1
60°	919.7	956.5	1115.5	1627.1	1917.0	2157.5	2182.6	2081.1	2250.3	2305.1
62.5°	625.0	665.0	823.1	1351.8	1816.2	2155.1	2308.7	2302.2	2515.9	2574.7
65°	387.2	412.2	516.5	1103.8	1675.1	2157.8	2440.7	2570.7	2796.1	2855.9
67.5°	306.0	317.5	371.8	847.5	1432.1	2096.8	2572.5	2823.2	3059.9	3107.2
70°	205.6	212.6	270.5	568.2	1065.5	1815.7	2570.0	2950.0	3195.7	3219.4
72.5°	108.3	113.7	158.2	263.1	643.5	1290.6	2166.3	2798.4	3060.5	3024.9
75°	54.2	63.2	106.5	133.6	274.8	719.8	1345.2	2206.3	2408.9	2270.8
77.5°	41.1	49.6	88.0	88.0	95.7	242.3	569.7	1203.3	1109.9	924.2
80°	26.2	33.8	76.9	66.6	39.9	61.6	148.5	337.1	235.8	179.4
82.5°	15.3	22.1	64.1	44.0	22.3	22.8	42.0	71.8	61.1	47.6
85°	6.1	14.4	44.0	17.4	8.8	5.6	12.6	15.3	12.6	9.5
87.5°	0.0	3.4	7.7	0.0	0.7	0.5	0.9	1.1	1.1	0.9
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°
557.3	0°	557.3	557.3	557.3	557.3	557.3	557.3	557.3	557.3	557.3	557.3
557.8	2.5°	559.8	560.3	561.6	561.8	558.7	554.6	553.0	552.4	549.7	549.4
561.4	5°	566.6	568.6	566.6	560.7	546.7	527.1	512.2	500.0	489.0	485.6
573.8	7.5°	580.1	582.1	576.1	553.0	517.8	478.8	443.6	418.8	396.4	388.1
588.9	10°	599.5	602.2	583.0	536.6	474.3	411.6	352.0	310.0	277.3	264.0
609.4	12.5°	623.9	625.0	586.9	511.5	417.7	328.1	243.7	198.8	169.7	158.8
634.3	15°	650.7	649.2	587.3	477.4	340.5	232.0	159.1	130.6	118.9	115.3
659.1	17.5°	678.9	672.4	578.3	428.3	255.9	158.6	118.0	111.2	109.2	108.3
683.7	20°	706.7	692.0	561.8	364.0	183.7	118.5	107.2	105.1	104.0	103.6
708.5	22.5°	732.0	706.9	533.6	289.3	133.4	104.7	101.3	99.5	97.5	96.6
732.6	25°	756.6	715.5	493.9	219.5	106.7	97.9	95.2	91.8	89.1	88.0
758.6	27.5°	780.5	720.9	444.3	162.5	95.2	91.6	86.6	81.9	79.9	79.4
786.3	30°	806.0	722.7	387.9	121.2	88.2	83.7	76.5	71.1	69.9	70.2
823.8	32.5°	837.1	725.4	331.0	99.3	82.4	74.2	65.7	60.0	59.1	60.0
878.4	35°	874.3	730.8	276.2	91.4	77.2	64.5	55.3	50.5	49.6	50.3
948.4	37.5°	924.9	739.6	225.0	89.8	72.9	56.4	46.5	42.6	42.6	42.9
1034.1	40°	992.1	763.1	179.2	88.7	70.6	50.3	39.3	37.7	38.4	38.8
1143.3	42.5°	1074.0	813.0	148.2	87.3	68.1	47.6	35.7	35.0	36.1	36.6
1274.2	45°	1165.9	876.1	137.4	85.1	65.9	49.4	34.1	33.2	34.5	34.7
1420.8	47.5°	1260.9	938.0	136.1	82.6	63.6	52.1	33.6	31.6	33.2	33.4
1577.4	50°	1357.0	978.4	137.4	78.7	60.0	52.1	33.8	30.0	31.4	32.0
1739.9	52.5°	1453.8	996.9	136.5	70.4	53.7	49.0	33.8	28.7	30.0	30.5
1915.4	55°	1547.6	993.3	122.7	58.0	45.6	43.3	32.9	27.5	28.4	28.7
2081.3	57.5°	1621.9	942.9	97.2	45.1	37.0	36.1	30.0	26.2	26.9	26.6
2233.4	60°	1660.7	832.4	69.5	34.7	29.1	28.4	26.4	24.4	24.8	23.7
2362.2	62.5°	1661.1	686.2	46.5	27.5	23.2	22.6	22.6	21.9	21.4	19.2
2461.9	65°	1625.7	523.9	30.9	21.9	18.7	17.6	19.0	18.7	17.1	14.0
2492.4	67.5°	1545.4	343.4	23.5	17.1	14.4	13.8	15.1	15.8	14.7	11.7
2381.4	70°	1380.2	199.9	19.4	13.3	10.8	10.2	12.2	13.5	12.2	9.5
2035.5	72.5°	1146.5	107.9	15.8	9.9	7.4	6.8	9.7	11.1	9.7	7.0
1306.0	75°	743.9	57.8	12.2	6.5	3.8	4.3	7.2	8.1	6.8	4.5
383.4	77.5°	249.8	25.5	7.7	3.2	1.8	1.8	4.3	5.0	3.2	1.6
69.7	80°	55.7	10.6	3.2	1.4	0.7	0.7	0.9	0.9	0.5	0.0
21.4	82.5°	18.3	4.3	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5.4	85°	7.0	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	87.5°	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
557.3
549.9
483.5
384.7
258.4
155.5
115.3
108.1
103.1
96.3
87.5
79.0
70.2
59.8
50.1
42.6
38.8
36.6
35.0
33.6
32.3
30.5
28.7
26.6
23.5
18.5
13.5
11.5
9.0
6.8
4.1
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