

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: P945538

Luminaire Tested: **GALN-SB1B-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

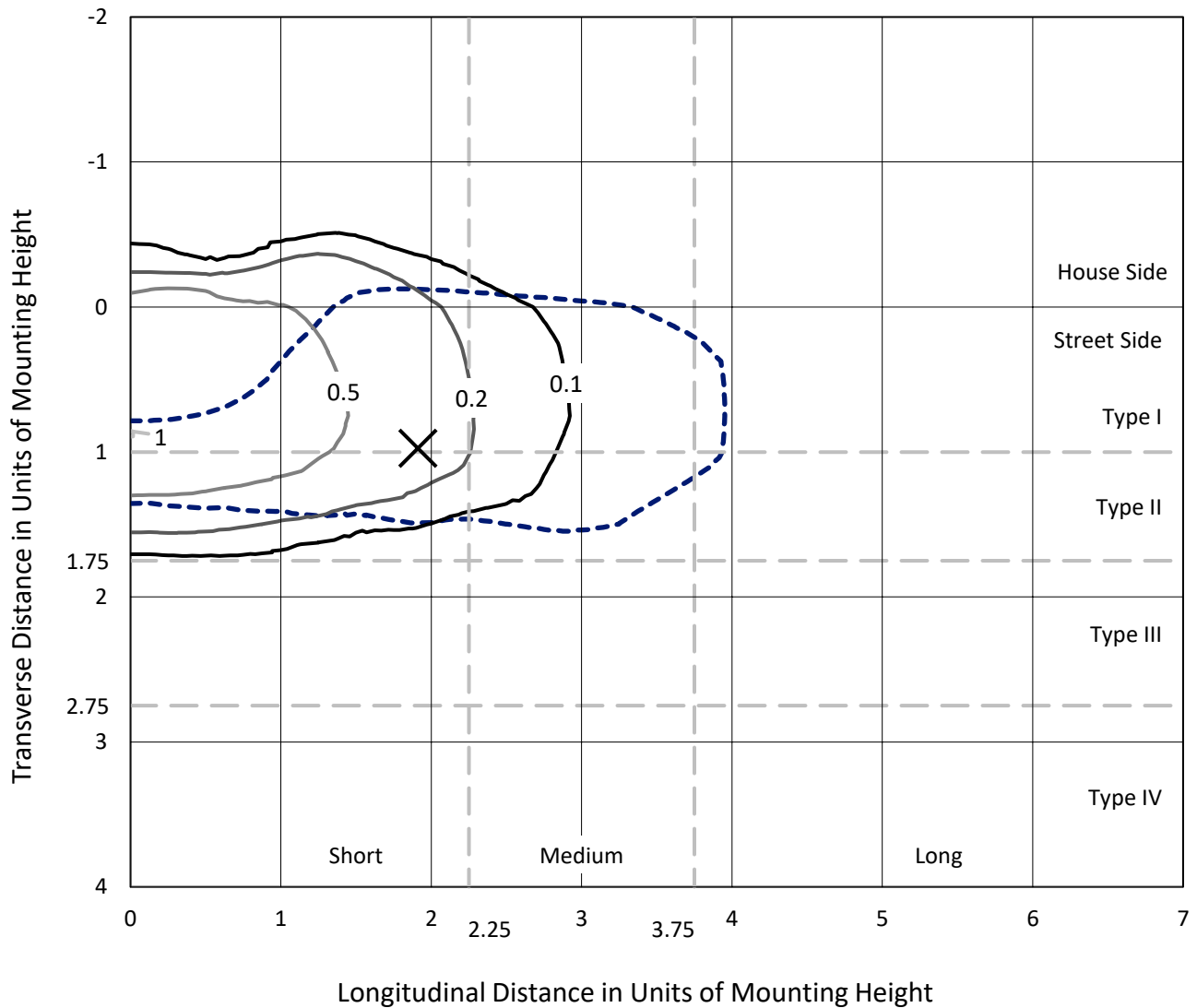
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

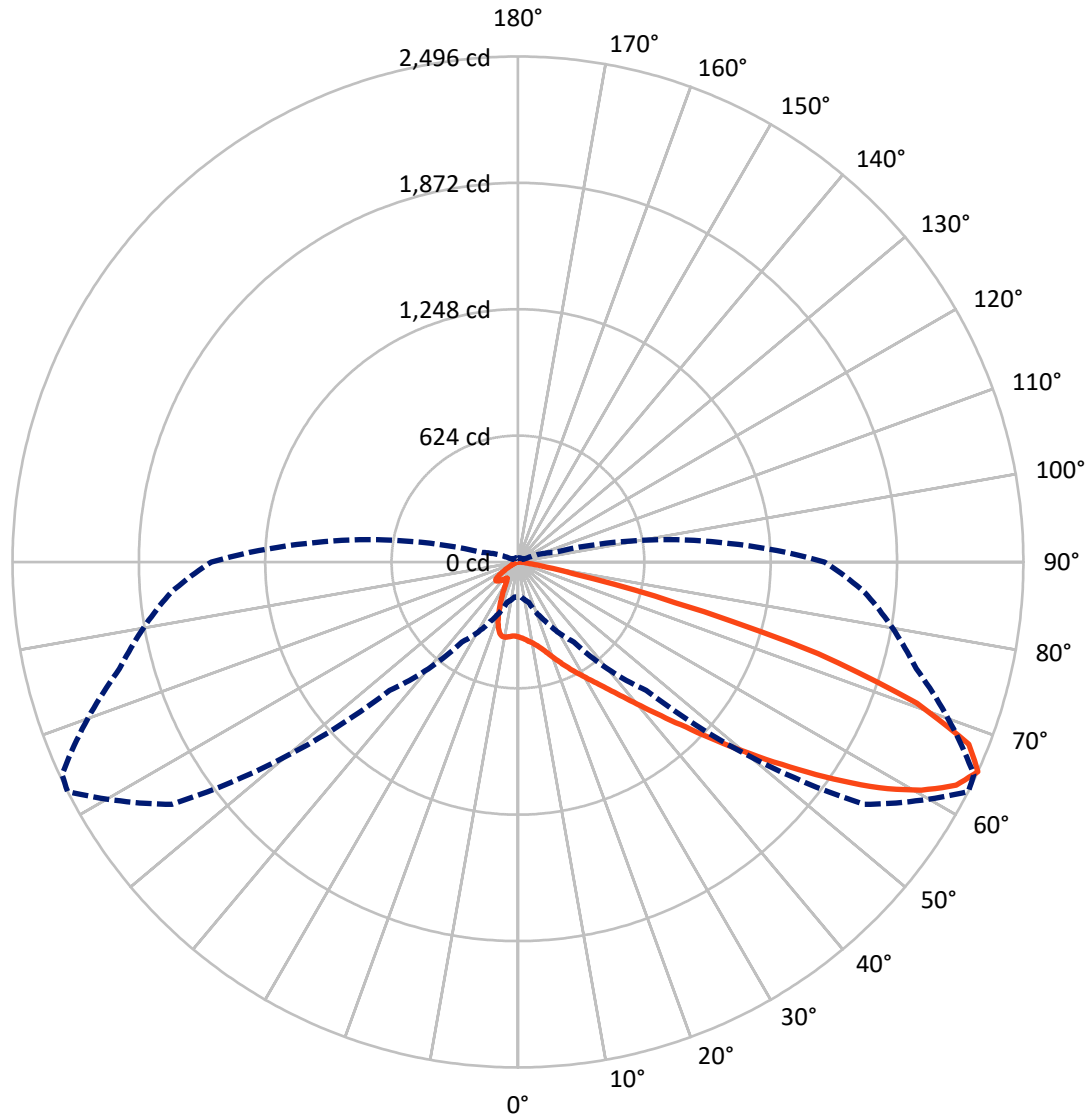
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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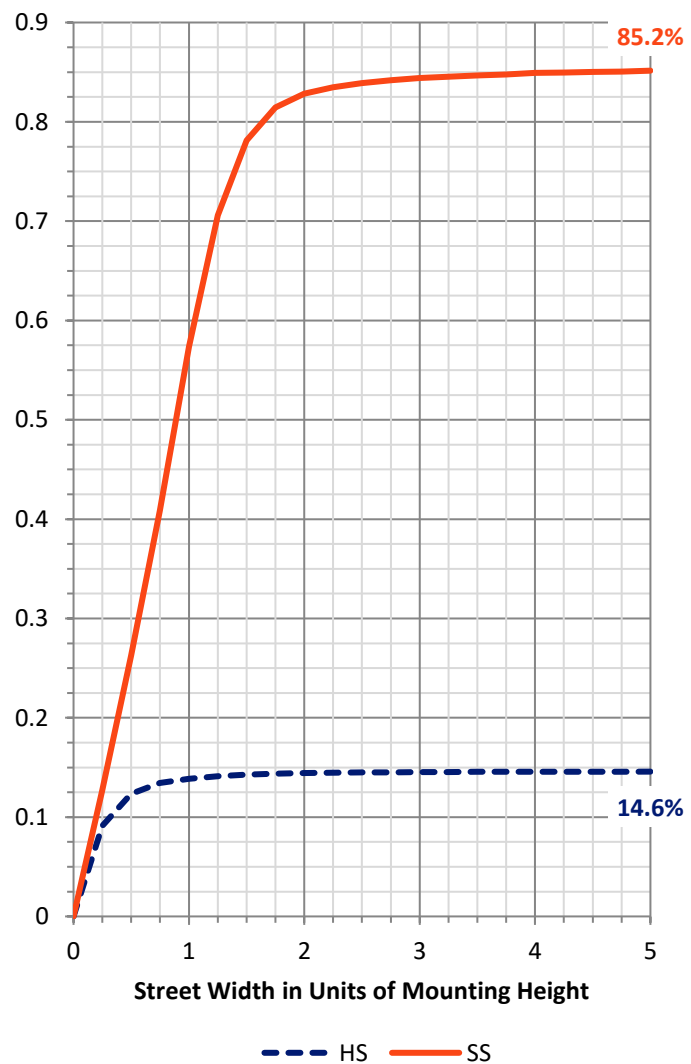
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.2	0.0	440.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2554.8	0.0	2554.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	2995.0	0.0	2995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	1.2
10°-20°	96.6	3.2
20°-30°	168.3	5.6
30°-40°	303.3	10.1
40°-50°	601.5	20.1
50°-60°	819.3	27.4
60°-70°	654.0	21.8
70°-80°	295.9	9.9
80°-90°	21.3	0.7
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°	2995.0	100.0
0°-180°	2995.0	100.0

Coefficient of Utilization



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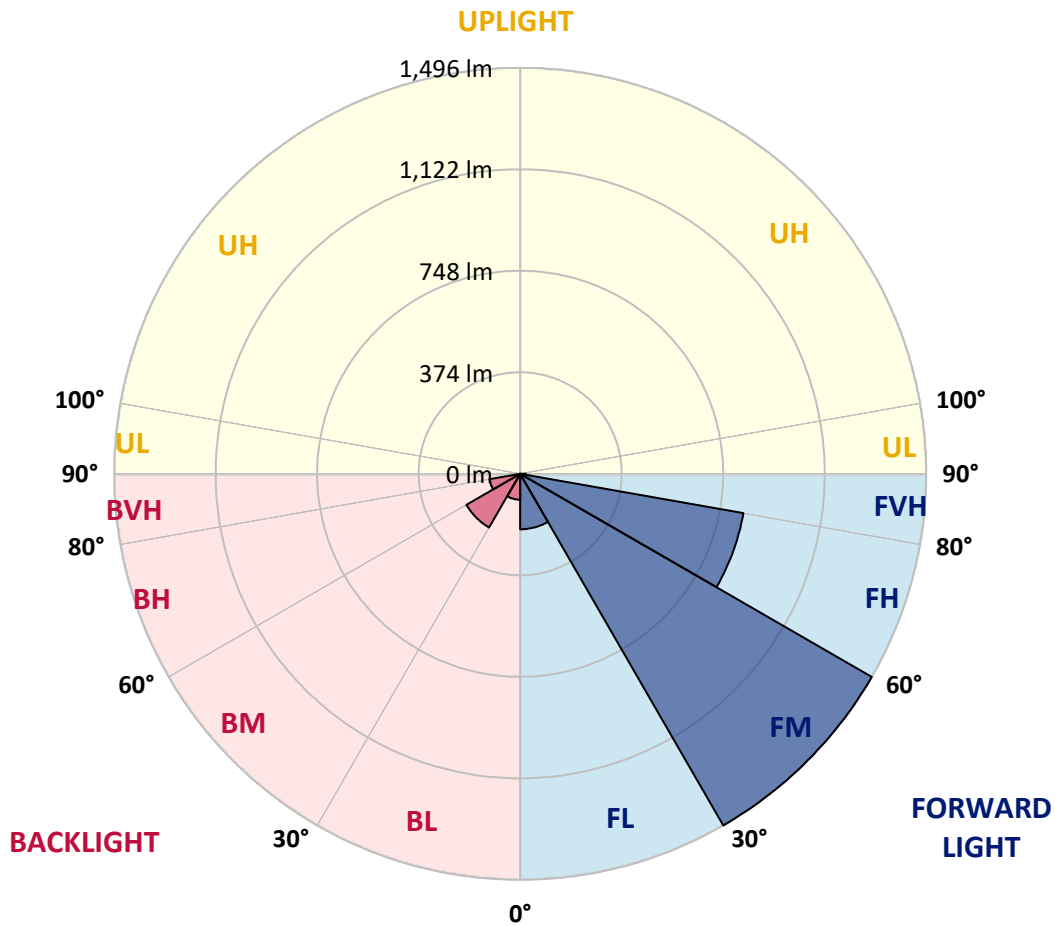
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.4	6.8			
FM (30°-60°)	1495.6	49.9			
FH (60°-80°)	835.0	27.9			G1/1800
FVH (80°-90°)	19.7	0.7			G1/100
BL (0°-30°)	95.3	3.2	B0/110		
BM (30°-60°)	228.5	7.6	B1/1000		
BH (60°-80°)	114.9	3.8	B1/500		G1/500
BVH (80°-90°)	1.6	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6
2.5°	378.3	377.3	378.7	378.1	377.7	376.9	376.4	376.0	375.2	374.6
5°	379.3	378.7	380.1	381.4	382.6	383.9	384.5	385.3	384.5	382.8
7.5°	370.7	370.3	373.3	377.1	382.6	387.4	392.5	395.4	395.6	395.0
10°	370.1	369.0	372.1	376.6	383.9	392.3	401.4	407.6	408.4	411.1
12.5°	379.7	378.7	383.0	388.0	395.4	404.3	415.4	424.0	425.3	429.0
15°	396.0	394.6	399.5	405.9	415.4	425.5	437.2	445.1	446.1	450.6
17.5°	415.0	413.5	419.3	426.1	436.4	450.2	463.8	472.5	473.7	476.6
20°	439.3	437.4	442.0	448.1	459.1	475.5	491.8	504.2	504.0	504.0
22.5°	467.5	464.6	468.5	473.5	483.8	503.8	525.4	540.0	540.0	534.3
25°	497.8	494.9	499.2	503.8	512.8	535.5	560.8	579.0	579.8	569.9
27.5°	535.7	532.0	535.3	540.7	546.0	569.1	599.2	620.2	620.6	605.4
30°	608.6	598.1	587.8	582.1	584.5	607.4	639.6	662.8	664.9	643.9
32.5°	742.2	740.1	703.8	656.5	631.7	648.6	684.7	712.7	713.9	686.9
35°	949.6	947.2	888.9	798.6	718.1	703.8	739.5	772.7	771.8	741.3
37.5°	1197.3	1195.0	1118.2	997.4	867.0	787.3	810.2	845.0	850.1	810.2
40°	1408.9	1400.5	1351.8	1235.4	1064.8	925.7	910.7	933.8	939.1	891.8
42.5°	1569.2	1562.0	1537.3	1464.5	1304.2	1130.6	1029.2	1038.0	1044.0	987.1
45°	1652.3	1650.6	1660.5	1653.7	1548.2	1381.9	1198.5	1161.7	1163.9	1092.8
47.5°	1664.0	1663.2	1708.3	1772.2	1758.0	1665.4	1415.9	1315.8	1307.7	1212.1
50°	1594.8	1593.1	1679.7	1799.4	1898.1	1903.6	1662.8	1489.5	1471.8	1335.6
52.5°	1373.7	1373.3	1515.4	1714.7	1947.3	2112.1	1906.7	1680.3	1650.6	1466.2
55°	1057.0	1064.6	1227.6	1463.1	1857.5	2212.5	2125.7	1892.1	1846.5	1597.7
57.5°	748.8	759.9	921.0	1130.8	1578.9	2153.1	2273.9	2104.3	2055.3	1728.7
60°	402.2	412.1	573.4	823.8	1174.6	1931.9	2352.0	2288.5	2242.2	1853.1
62.5°	239.6	242.9	309.7	531.8	794.5	1475.9	2318.8	2428.8	2390.7	1957.6
65°	172.0	172.7	206.2	324.7	482.3	896.7	2086.2	2496.0	2484.3	2036.3
67.5°	144.8	144.4	158.4	215.7	328.6	449.2	1598.9	2401.0	2450.9	2086.2
70°	124.2	124.9	141.3	158.0	247.0	254.3	794.9	2090.5	2196.8	2099.4
72.5°	92.5	94.6	109.8	144.0	186.5	174.9	274.4	1550.1	1742.3	1978.0
75°	65.3	66.3	77.3	121.2	139.1	127.3	140.1	801.3	1047.7	1516.5
77.5°	50.3	52.1	58.5	84.7	137.0	89.4	85.7	277.3	426.1	916.1
80°	27.2	30.5	42.2	61.2	96.2	63.3	42.4	110.4	144.4	428.4
82.5°	14.0	15.7	29.5	44.1	54.8	55.2	21.0	45.9	59.5	132.3
85°	5.6	6.8	19.8	24.3	28.2	27.2	9.5	18.5	21.4	36.7
87.5°	1.2	2.1	7.2	5.6	5.4	5.8	2.3	4.3	4.1	4.3
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°
369.6	0°	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6
372.1	2.5°	371.9	371.1	368.8	366.3	363.5	361.8	360.8	360.6	359.1	358.1
380.4	5°	378.1	377.3	372.9	367.8	362.2	357.9	353.8	350.1	344.7	343.7
392.3	7.5°	390.4	388.2	381.2	374.2	363.7	351.1	335.8	318.3	302.7	297.9
408.2	10°	405.7	402.6	393.7	381.4	358.1	323.9	287.0	252.8	225.6	218.0
426.9	12.5°	423.0	420.3	408.6	385.7	334.8	272.8	216.3	173.9	147.5	140.9
446.9	15°	443.6	439.7	423.4	379.1	293.2	207.3	148.6	123.4	113.9	112.7
469.8	17.5°	465.4	459.1	436.6	355.4	237.2	147.3	114.8	107.6	103.4	102.2
492.9	20°	485.4	477.2	444.4	319.6	177.2	114.8	102.8	98.1	94.4	92.9
515.9	22.5°	505.4	493.7	444.4	270.7	132.9	101.8	94.4	90.0	85.7	83.9
540.7	25°	526.2	510.6	436.6	216.3	106.9	93.3	86.3	81.6	77.9	75.6
564.1	27.5°	546.4	524.8	418.7	164.8	95.2	85.9	78.9	74.4	70.9	69.2
589.7	30°	565.6	538.8	393.5	125.1	87.6	78.7	72.1	68.2	64.7	63.0
622.9	32.5°	591.5	556.5	366.8	102.6	81.0	71.9	65.9	62.2	59.1	57.9
665.9	35°	627.6	582.7	343.7	100.8	75.4	66.3	60.4	56.9	53.8	52.7
721.6	37.5°	678.7	624.9	331.5	113.1	70.9	61.4	55.8	52.1	49.2	48.4
792.2	40°	741.8	682.2	338.1	125.5	67.8	57.1	51.7	48.0	45.5	44.5
873.4	42.5°	816.5	752.9	374.6	135.0	65.7	53.4	47.8	43.7	42.0	41.6
965.5	45°	902.5	830.6	430.4	145.1	62.4	49.9	43.9	40.8	39.6	39.4
1065.6	47.5°	1000.1	915.9	495.1	157.6	59.1	46.6	40.8	38.7	37.7	37.3
1170.1	50°	1097.0	1001.8	561.7	164.6	56.5	43.5	38.3	36.7	35.9	35.6
1280.6	52.5°	1198.3	1090.2	615.4	158.0	54.2	41.0	36.3	35.0	34.2	34.0
1382.3	55°	1295.0	1161.7	624.7	134.1	49.7	38.5	34.0	33.4	32.3	32.3
1485.6	57.5°	1378.2	1197.5	559.2	98.5	45.1	34.8	31.7	31.1	30.3	30.1
1578.7	60°	1454.7	1187.2	431.7	66.3	40.2	31.1	28.8	28.4	27.6	26.6
1659.7	62.5°	1497.7	1141.9	295.3	43.3	35.2	27.2	25.5	25.3	23.5	21.4
1719.6	65°	1514.0	1048.8	184.2	31.5	29.5	23.3	22.0	21.6	19.0	16.7
1753.6	67.5°	1499.8	895.5	92.9	24.9	23.3	19.4	18.1	18.1	16.3	14.2
1751.6	70°	1442.9	671.3	39.1	20.0	17.9	14.8	14.8	15.7	13.8	11.5
1660.7	72.5°	1319.5	451.6	20.8	15.2	13.4	10.5	12.2	12.8	10.9	8.7
1359.3	75°	1049.0	275.5	14.4	11.3	8.4	7.4	9.3	9.7	7.4	5.8
931.9	77.5°	717.4	158.2	9.7	7.2	5.4	4.3	6.4	6.0	3.9	2.7
359.3	80°	315.0	65.9	5.6	3.3	2.1	1.6	2.3	1.6	1.2	0.8
49.2	82.5°	36.9	15.5	2.1	1.2	0.8	0.4	0.2	0.0	0.0	0.0
15.0	85°	7.6	1.9	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0
2.7	87.5°	1.4	0.4	0.2	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>
369.6
359.1
343.3
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139.1
111.5
101.6
92.1
82.8
74.8
69.2
63.3
57.9
52.7
48.2
44.3
41.6
39.1
37.3
35.6
34.0
32.1
29.9
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