

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: P945509

Luminaire Tested: **GALN-SB1B-940-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1B-940-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

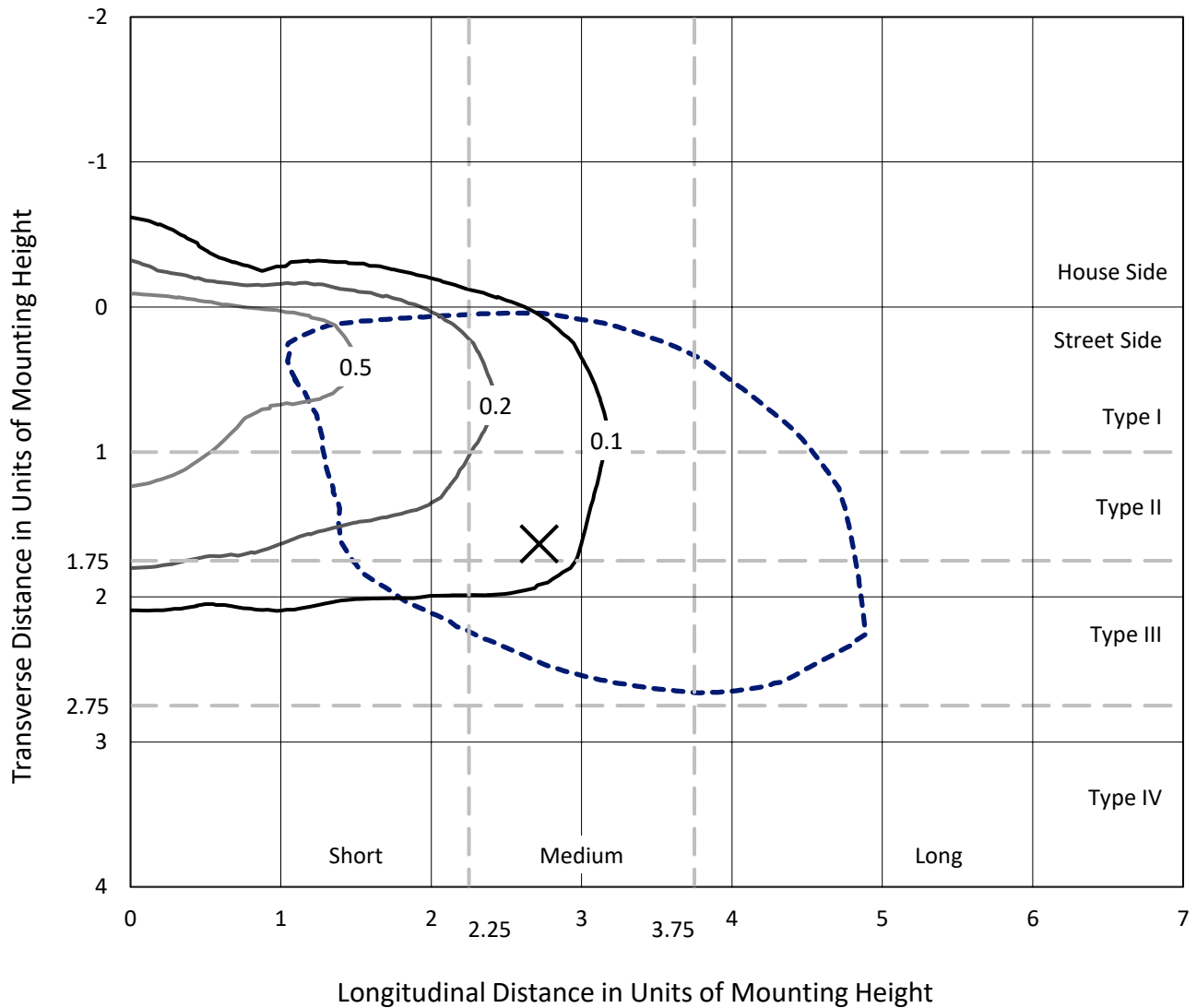
Lumens per Lamp: N/A  
Luminaire Lumens: 3287 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

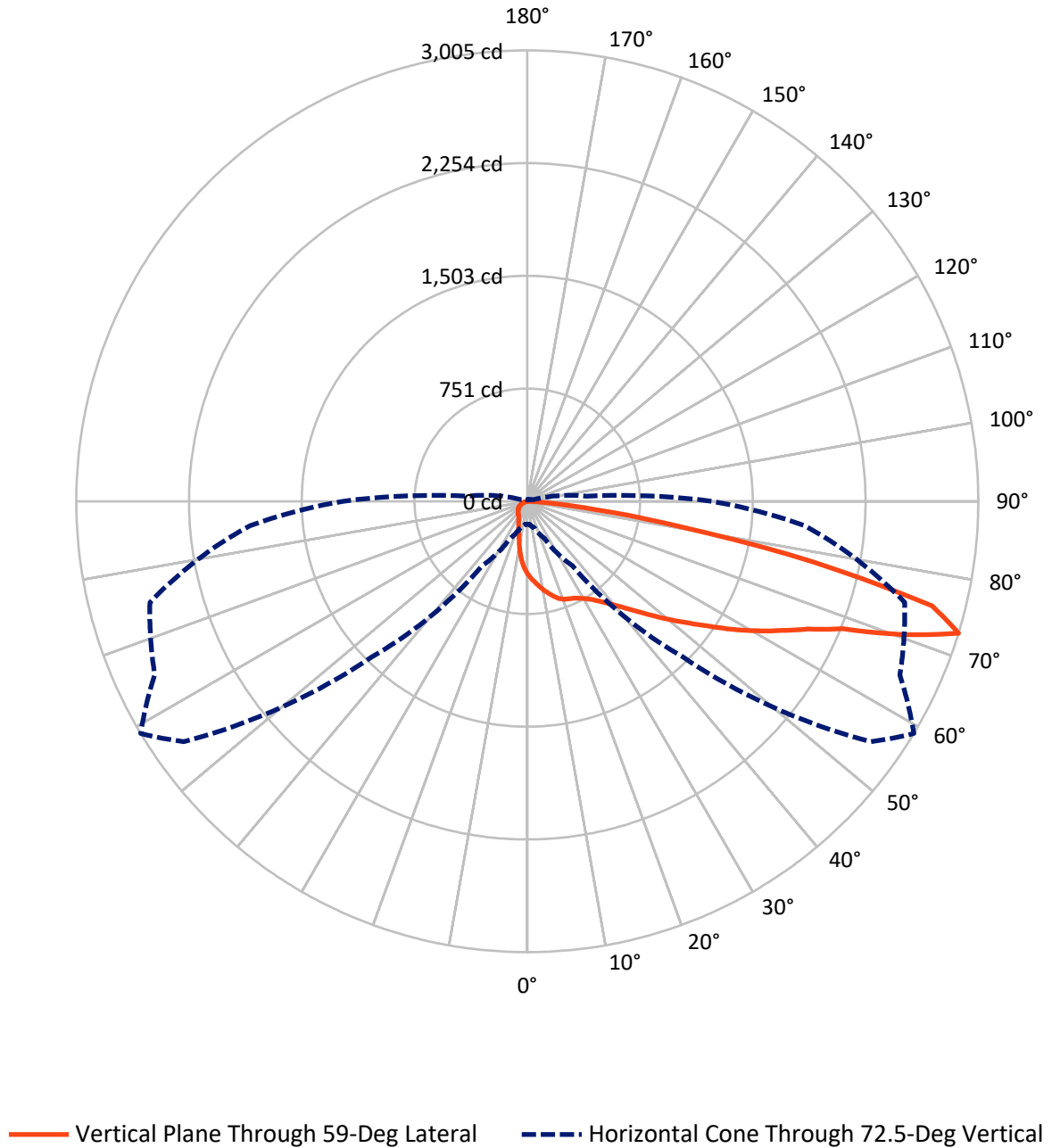
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	347.2	0.0	347.2
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	2939.8	0.0	2939.8
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	3287.0	0.0	3287.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	1.3
10°-20°	116.8	3.6
20°-30°	185.1	5.6
30°-40°	297.1	9.0
40°-50°	474.5	14.4
50°-60°	687.0	20.9
60°-70°	815.3	24.8
70°-80°	605.3	18.4
80°-90°	61.9	1.9
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°	3287.0	100.0
0°-180°	3287.0	100.0

**Coefficient of Utilization**



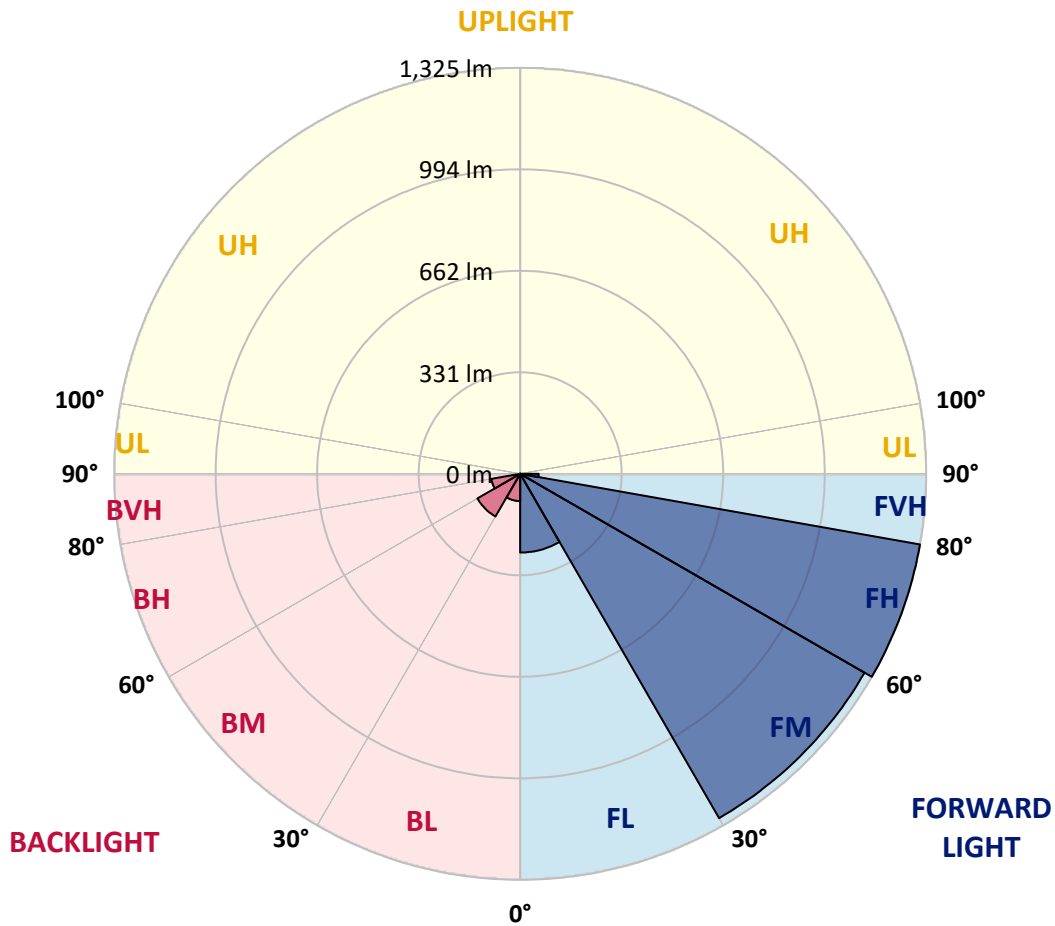
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.0	7.8			
FM (30°-60°)	1297.7	39.5			
FH (60°-80°)	1324.9	40.3			G1/1800
FVH (80°-90°)	60.3	1.8			G1/100
BL (0°-30°)	88.9	2.7	B0/110		
BM (30°-60°)	161.0	4.9	B0/220		
BH (60°-80°)	95.7	2.9	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1
2.5°	539.3	536.3	536.7	531.6	527.9	524.1	516.5	515.5	510.1	500.7
5°	586.3	584.4	582.6	576.8	569.3	559.9	547.2	542.7	532.9	516.5
7.5°	620.6	618.3	619.1	613.3	607.3	596.8	579.4	571.1	558.0	533.1
10°	627.3	626.0	631.6	633.7	633.7	627.1	610.1	601.7	582.6	550.9
12.5°	589.9	590.2	604.1	620.8	642.7	649.0	637.6	628.6	609.7	569.8
15°	546.4	546.6	560.1	581.6	617.4	653.2	662.3	656.5	636.9	590.2
17.5°	520.2	519.1	528.1	545.7	583.3	633.7	677.3	681.1	665.3	612.7
20°	516.5	514.6	519.3	528.1	555.0	609.2	679.0	697.2	694.4	638.2
22.5°	538.9	535.9	533.3	533.7	545.1	588.9	674.7	706.2	724.5	668.9
25°	583.1	578.3	570.0	559.2	556.9	584.6	671.7	716.1	752.4	708.2
27.5°	637.1	630.5	614.4	598.3	584.6	596.6	677.9	731.8	783.9	753.9
30°	696.6	688.4	672.3	641.9	620.0	623.4	692.7	752.4	824.3	805.6
32.5°	783.9	765.0	736.9	690.4	661.4	652.4	715.0	778.6	874.3	874.5
35°	858.8	848.3	820.0	762.0	702.6	690.8	744.4	815.5	943.6	965.7
37.5°	908.0	893.6	868.7	825.1	766.6	730.3	783.7	860.8	1017.0	1069.6
40°	962.9	948.7	915.7	874.7	840.8	798.1	833.3	912.9	1097.5	1176.2
42.5°	1029.2	1010.8	971.7	927.5	892.1	887.4	898.1	977.9	1180.1	1292.1
45°	1107.1	1089.7	1044.9	989.1	958.0	949.6	979.6	1053.7	1272.1	1419.1
47.5°	1180.1	1159.9	1111.6	1060.8	1026.2	999.8	1066.3	1143.2	1376.4	1552.0
50°	1242.1	1221.5	1177.3	1123.0	1099.6	1065.1	1151.5	1243.0	1479.9	1687.0
52.5°	1284.6	1266.4	1214.4	1177.5	1161.6	1144.2	1251.3	1348.8	1582.9	1810.6
55°	1274.9	1258.6	1212.9	1210.3	1209.3	1227.5	1370.7	1468.7	1687.8	1927.5
57.5°	1244.3	1225.8	1168.7	1208.0	1246.0	1301.8	1499.8	1610.6	1802.9	2037.8
60°	1153.9	1147.5	1112.7	1203.5	1261.4	1374.5	1647.5	1753.1	1927.3	2134.8
62.5°	962.7	968.3	968.1	1212.9	1289.3	1457.3	1781.6	1897.3	2049.0	2228.2
65°	720.8	740.2	764.8	1127.9	1326.7	1605.2	1941.9	2053.7	2172.6	2336.8
67.5°	484.4	499.8	516.5	925.4	1215.5	1760.6	2208.2	2268.1	2320.7	2457.2
70°	277.3	282.2	305.6	577.9	936.9	1717.7	2641.9	2663.6	2541.5	2605.5
72.5°	155.4	153.7	184.6	274.3	523.6	1470.9	2793.9	3005.3	2739.2	2603.1
75°	103.9	104.1	127.0	173.0	204.1	1029.7	2407.6	2786.6	2620.7	2308.2
77.5°	70.8	73.2	93.4	133.7	94.4	502.4	1592.8	1952.0	2121.8	1782.5
80°	30.7	30.9	61.6	95.9	63.7	159.9	825.8	1045.7	1330.7	1000.9
82.5°	15.9	18.0	39.3	62.0	40.1	56.0	390.1	456.9	558.4	293.8
85°	5.6	6.7	24.2	30.5	20.2	20.0	135.8	138.4	118.2	44.2
87.5°	0.0	1.1	9.4	7.5	2.6	2.4	16.1	13.5	10.7	6.2
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°
486.1	0°	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1
491.0	2.5°	486.5	480.7	471.3	459.7	446.2	438.9	428.3	421.9	416.1	416.3
497.7	5°	487.1	477.5	453.4	427.9	399.6	378.8	355.6	339.3	326.8	323.8
504.5	7.5°	489.1	472.8	433.5	391.0	343.8	308.8	276.8	256.7	245.3	242.3
511.6	10°	491.6	467.6	411.0	345.9	287.3	245.3	218.7	205.8	200.7	196.8
520.6	12.5°	493.8	462.2	382.6	299.4	237.1	204.3	184.1	173.4	168.9	166.1
531.1	15°	497.4	455.2	351.9	256.0	203.2	176.4	157.3	149.4	148.1	148.5
542.7	17.5°	501.1	448.3	317.6	222.1	178.3	151.9	140.3	139.1	140.8	142.5
556.0	20°	505.2	438.4	282.8	196.6	155.4	135.0	132.0	132.8	133.7	136.7
574.3	22.5°	511.2	426.0	252.4	174.9	136.3	126.8	125.3	126.0	126.6	129.6
598.3	25°	519.8	412.7	227.7	154.9	124.3	120.2	118.7	118.7	119.5	122.3
626.2	27.5°	528.8	393.8	207.7	136.5	117.2	112.9	110.3	110.3	111.4	114.6
661.2	30°	538.9	376.6	192.1	122.8	111.2	105.6	102.1	101.3	102.6	106.7
711.8	32.5°	557.1	365.5	180.9	116.3	105.8	98.9	94.2	91.8	93.1	97.9
782.6	35°	584.8	362.9	173.2	113.1	100.6	92.9	86.3	82.6	83.7	88.6
870.0	37.5°	617.2	368.3	165.7	108.8	95.7	87.1	78.3	73.6	75.3	79.8
969.8	40°	663.8	390.6	159.9	105.6	90.8	80.3	70.4	65.7	68.5	72.3
1073.6	42.5°	720.0	430.3	158.4	102.6	84.8	73.0	63.1	59.7	61.8	65.5
1178.6	45°	789.7	480.9	165.2	98.7	78.1	65.9	57.3	55.4	56.0	59.7
1277.7	47.5°	864.6	532.9	184.1	95.3	72.3	60.1	52.8	51.1	50.6	54.1
1368.3	50°	940.4	579.0	206.4	92.7	68.2	55.4	49.4	47.2	46.1	48.3
1457.8	52.5°	1015.3	615.7	221.0	88.4	64.2	50.6	46.4	43.1	41.2	42.3
1546.8	55°	1091.2	647.9	221.9	82.0	60.3	47.6	43.3	39.7	37.3	37.3
1632.7	57.5°	1162.3	676.2	209.2	73.4	54.9	44.9	39.3	36.3	33.7	32.8
1708.9	60°	1225.2	697.2	188.2	63.7	50.2	41.2	35.2	32.8	29.6	27.9
1776.7	62.5°	1281.2	707.5	159.4	53.9	44.4	36.9	31.3	28.8	24.5	22.3
1845.6	65°	1328.6	697.0	129.4	44.6	39.5	32.2	26.8	24.2	19.5	17.0
1923.0	67.5°	1375.6	649.0	97.9	37.6	34.3	27.0	22.1	19.7	16.3	14.2
1979.5	70°	1381.6	547.9	68.5	31.5	28.5	20.8	17.8	16.3	13.3	11.4
1853.5	72.5°	1229.9	394.2	41.6	25.8	22.3	14.8	14.2	12.9	9.9	8.6
1514.4	75°	983.1	241.6	24.5	19.3	14.8	10.5	10.5	9.2	6.7	5.6
1045.5	77.5°	679.4	126.4	14.4	12.4	8.8	6.2	6.9	5.6	3.2	2.6
414.2	80°	272.1	48.1	7.7	5.8	4.1	2.8	2.4	1.3	0.6	0.4
85.0	82.5°	54.3	12.7	2.6	1.5	1.5	0.6	0.0	0.0	0.0	0.0
23.4	85°	13.9	2.8	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	4.3	0.0	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>
486.1
421.0
328.3
245.3
199.1
167.6
149.1
143.1
137.6
130.5
123.4
115.9
107.7
99.1
90.1
81.1
73.0
66.1
61.4
56.2
49.1
43.1
37.8
33.0
27.5
22.1
17.0
14.2
11.2
8.4
5.6
2.6
0.6
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