

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: P938952

Luminaire Tested: **GALN-SB1B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4855 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

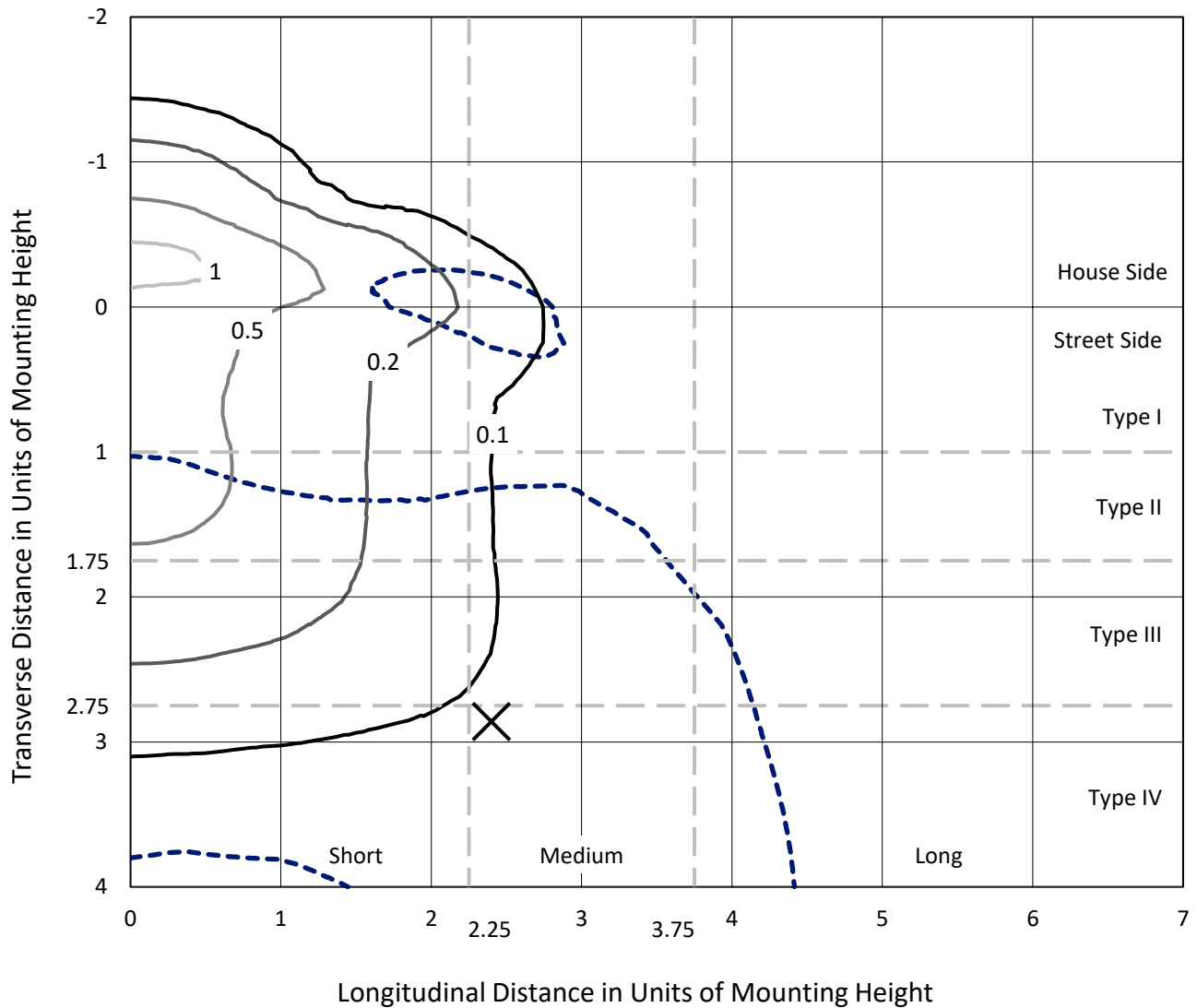
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

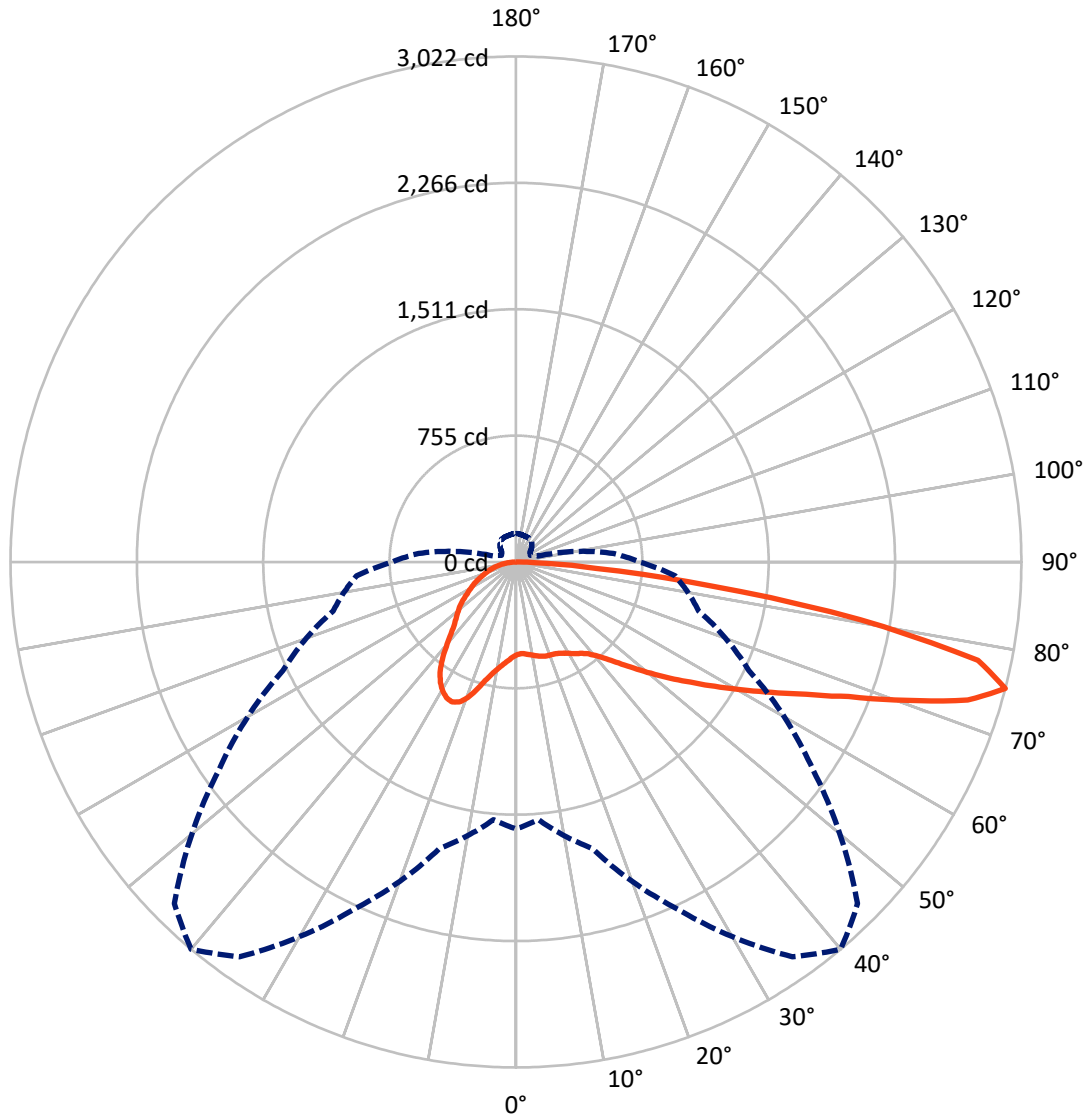
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1504.2	0.0	1504.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3350.8	0.0	3350.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	4855.0	0.0	4855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.1
10°-20°	186.1	3.8
20°-30°	339.7	7.0
30°-40°	481.8	9.9
40°-50°	650.6	13.4
50°-60°	875.3	18.0
60°-70°	1110.9	22.9
70°-80°	1008.2	20.8
80°-90°	147.0	3.0
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°	4855.0	100.0
0°-180°	4855.0	100.0

Coefficient of Utilization



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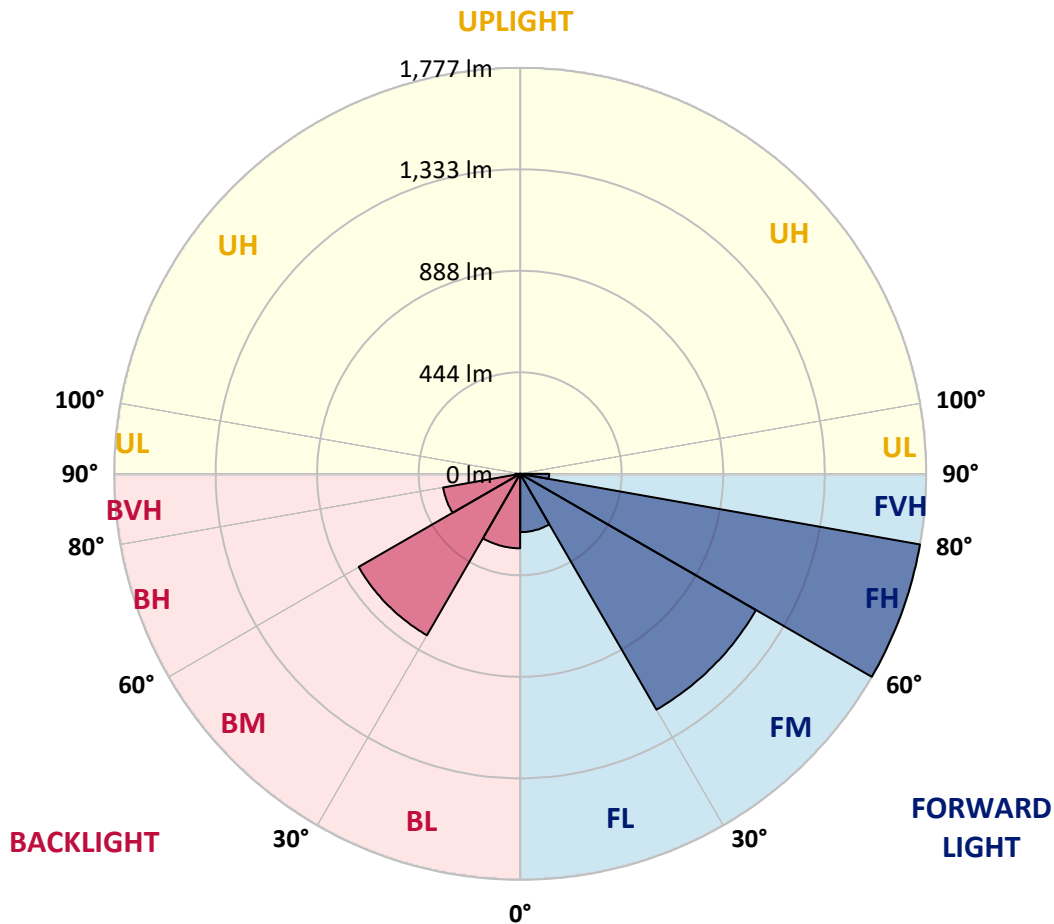
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.4	5.3			
FM (30°-60°)	1191.8	24.5			
FH (60°-80°)	1776.9	36.6			G1/1800
FVH (80°-90°)	126.7	2.6			G2/225
BL (0°-30°)	325.8	6.7	B1/500		
BM (30°-60°)	815.9	16.8	B1/1000		
BH (60°-80°)	342.3	7.0	B1/500		G1/500
BVH (80°-90°)	20.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2
2.5°	546.7	549.8	549.0	548.0	548.0	548.2	548.0	549.8	551.6	553.4
5°	552.3	555.4	553.9	552.6	551.6	551.3	550.5	550.3	551.3	553.6
7.5°	563.4	566.5	564.2	561.9	559.8	558.8	557.8	556.2	555.4	556.7
10°	575.8	578.9	576.0	571.9	568.6	567.3	566.2	564.7	563.7	564.4
12.5°	588.1	591.2	587.4	581.7	577.3	576.5	575.3	574.7	574.5	574.2
15°	599.7	602.3	597.4	590.7	586.1	584.8	583.5	584.3	585.6	587.1
17.5°	608.7	611.3	604.1	595.3	591.0	590.5	589.7	592.3	595.9	599.7
20°	617.0	619.6	610.3	598.4	593.3	593.3	593.5	599.0	604.1	609.8
22.5°	628.6	630.6	619.3	603.1	595.6	596.1	598.2	603.6	610.0	617.7
25°	645.8	647.4	633.5	611.8	603.3	604.9	606.7	609.3	615.4	624.4
27.5°	673.6	674.9	656.6	627.3	614.4	617.0	619.6	617.7	620.6	628.3
30°	712.8	713.5	690.4	651.5	633.2	634.5	635.0	627.5	622.1	628.3
32.5°	759.1	758.9	731.3	680.8	654.6	653.3	648.9	634.2	621.6	627.0
35°	831.0	828.1	792.6	722.0	678.8	670.8	660.5	641.7	624.2	625.7
37.5°	949.9	941.2	892.0	789.5	714.8	694.5	679.3	653.8	629.9	625.2
40°	1084.1	1073.0	1018.9	881.9	768.9	736.2	711.7	671.1	639.1	627.5
42.5°	1243.2	1227.5	1169.3	990.9	837.4	790.0	753.2	692.9	652.8	635.0
45°	1438.7	1417.8	1335.4	1113.7	923.7	860.6	811.4	726.2	673.6	649.4
47.5°	1636.2	1641.3	1524.2	1254.3	1027.2	947.6	884.3	776.1	704.0	672.6
50°	1846.0	1849.6	1711.9	1410.1	1144.6	1046.0	966.1	832.0	746.2	705.6
52.5°	2009.8	2010.3	1882.3	1573.1	1266.9	1154.1	1054.5	895.9	795.2	749.3
55°	2112.3	2111.0	2001.8	1727.3	1407.5	1267.7	1152.3	968.5	854.9	800.8
57.5°	2186.7	2182.8	2084.2	1859.9	1557.4	1401.8	1263.1	1050.9	925.5	862.1
60°	2215.0	2212.7	2140.1	1974.5	1715.0	1550.2	1390.8	1143.1	1005.5	934.5
62.5°	2225.9	2230.2	2195.0	2085.5	1883.6	1714.5	1531.1	1253.3	1095.7	1016.4
65°	2264.0	2271.9	2264.7	2230.7	2074.2	1906.8	1717.3	1384.3	1194.0	1104.2
67.5°	2339.4	2347.4	2350.5	2404.6	2307.0	2146.5	1949.6	1547.6	1309.1	1195.3
70°	2337.6	2335.3	2389.9	2542.8	2598.5	2478.5	2262.7	1748.4	1446.4	1271.0
72.5°	2127.7	2109.2	2238.2	2541.3	2841.0	2825.1	2645.1	2007.5	1564.8	1280.3
75°	1596.3	1546.8	1774.7	2290.2	2881.5	3021.8	2888.1	2168.2	1536.8	1131.2
77.5°	682.6	632.9	901.5	1695.4	2578.9	2824.8	2665.2	1891.6	1226.7	748.0
80°	178.7	178.4	272.4	768.6	1753.9	2086.0	1830.1	1221.6	700.9	267.3
82.5°	73.9	72.1	100.2	299.0	857.0	1170.6	955.3	544.9	253.1	72.4
85°	27.6	27.3	48.7	103.3	302.3	482.8	349.4	139.3	63.1	35.3
87.5°	7.7	7.5	10.6	35.8	73.6	111.8	59.7	22.9	17.8	13.9
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°
555.2	0°	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2
556.2	2.5°	557.0	558.3	560.6	562.4	564.7	567.3	570.9	573.2	575.5	577.1
557.5	5°	559.3	562.1	568.1	574.0	580.9	587.4	594.8	600.2	604.6	605.9
562.1	7.5°	564.4	569.1	579.1	589.2	600.2	610.8	621.6	630.9	638.3	641.2
570.4	10°	573.5	579.6	593.8	608.0	622.6	638.9	652.8	666.2	676.7	681.1
580.2	12.5°	584.8	592.5	611.1	630.6	651.0	673.4	691.4	707.9	721.0	726.9
593.8	15°	599.5	609.5	633.2	659.5	689.3	720.5	743.4	761.7	776.4	783.6
608.0	17.5°	615.4	628.8	658.7	698.3	741.1	782.0	808.8	822.2	837.4	844.4
621.1	20°	630.9	647.4	690.1	747.8	804.7	848.2	869.8	873.4	874.5	875.3
633.5	22.5°	646.8	669.0	729.5	810.1	871.1	901.3	904.3	888.9	867.3	857.2
645.6	25°	664.4	693.7	781.0	878.9	928.3	931.9	908.2	870.6	829.7	810.9
655.3	27.5°	681.4	722.3	842.8	944.5	969.5	937.8	886.8	833.5	784.1	764.3
662.3	30°	698.3	755.0	911.0	1001.9	988.3	923.1	853.1	793.6	743.9	723.1
668.5	32.5°	715.6	793.1	989.6	1043.4	984.9	892.0	811.1	748.8	705.0	683.2
673.9	35°	735.2	840.0	1064.0	1066.1	962.5	846.2	755.8	695.3	657.1	639.6
680.3	37.5°	760.7	899.5	1129.7	1071.7	923.4	778.9	687.0	631.9	600.5	592.5
689.8	40°	792.3	971.0	1179.9	1062.7	865.5	697.3	611.8	567.8	550.0	551.8
702.7	42.5°	833.5	1051.1	1215.2	1039.5	784.9	613.1	545.9	526.3	534.8	542.0
722.0	45°	887.1	1134.3	1237.0	1000.1	693.7	541.8	507.0	511.7	518.1	518.9
753.2	47.5°	955.6	1218.5	1251.5	940.7	600.8	491.6	482.3	483.3	482.0	476.6
799.8	50°	1041.1	1300.4	1264.3	861.9	521.7	460.2	447.8	444.2	426.4	408.9
861.9	52.5°	1138.4	1375.6	1269.7	764.0	460.2	433.9	413.8	391.1	357.9	352.5
939.9	55°	1246.6	1445.1	1255.8	643.8	408.4	400.2	369.8	342.5	338.9	334.2
1042.6	57.5°	1375.8	1520.0	1227.5	509.6	355.4	360.8	331.1	334.2	327.8	320.6
1174.7	60°	1517.2	1597.5	1177.8	387.3	300.5	311.6	321.1	320.8	319.0	313.1
1314.0	62.5°	1644.4	1648.5	1080.0	296.6	252.4	273.5	299.5	299.2	297.7	294.3
1459.5	65°	1720.1	1640.8	916.7	233.6	212.7	242.1	270.1	272.2	272.4	272.2
1569.0	67.5°	1706.7	1550.4	692.7	185.9	180.0	210.1	241.0	243.9	245.9	246.4
1582.9	70°	1555.3	1351.9	451.7	148.3	150.9	182.1	213.5	216.3	218.1	220.2
1373.5	72.5°	1212.3	994.0	258.5	120.0	125.4	157.8	186.2	189.5	190.6	194.4
955.8	75°	738.8	584.5	139.6	94.5	103.0	134.9	159.1	163.0	164.8	169.4
469.4	77.5°	351.2	253.1	79.6	73.6	82.9	110.2	134.4	138.8	133.9	136.5
129.5	80°	118.7	94.0	50.2	56.1	63.3	86.0	107.6	112.0	101.7	101.2
43.0	82.5°	41.5	38.1	31.9	37.3	40.9	61.5	81.4	87.0	75.7	75.4
19.3	85°	16.2	15.5	17.8	20.3	24.5	37.9	53.6	56.4	46.6	37.6
5.7	87.5°	3.3	3.6	4.4	4.6	7.5	13.1	19.3	23.7	18.8	16.0
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

180°
555.2
576.0
606.4
641.4
681.4
726.9
783.1
844.1
877.3
860.1
813.7
766.6
725.4
686.0
643.5
598.2
558.0
548.7
524.0
480.8
411.2
354.3
335.0
319.3
311.1
293.0
272.2
246.9
221.2
196.0
170.0
134.4
100.2
71.8
37.1
14.7
0.0

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