

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: P938792

Luminaire Tested: **GALN-SB1A-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938792  
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-SB1A-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

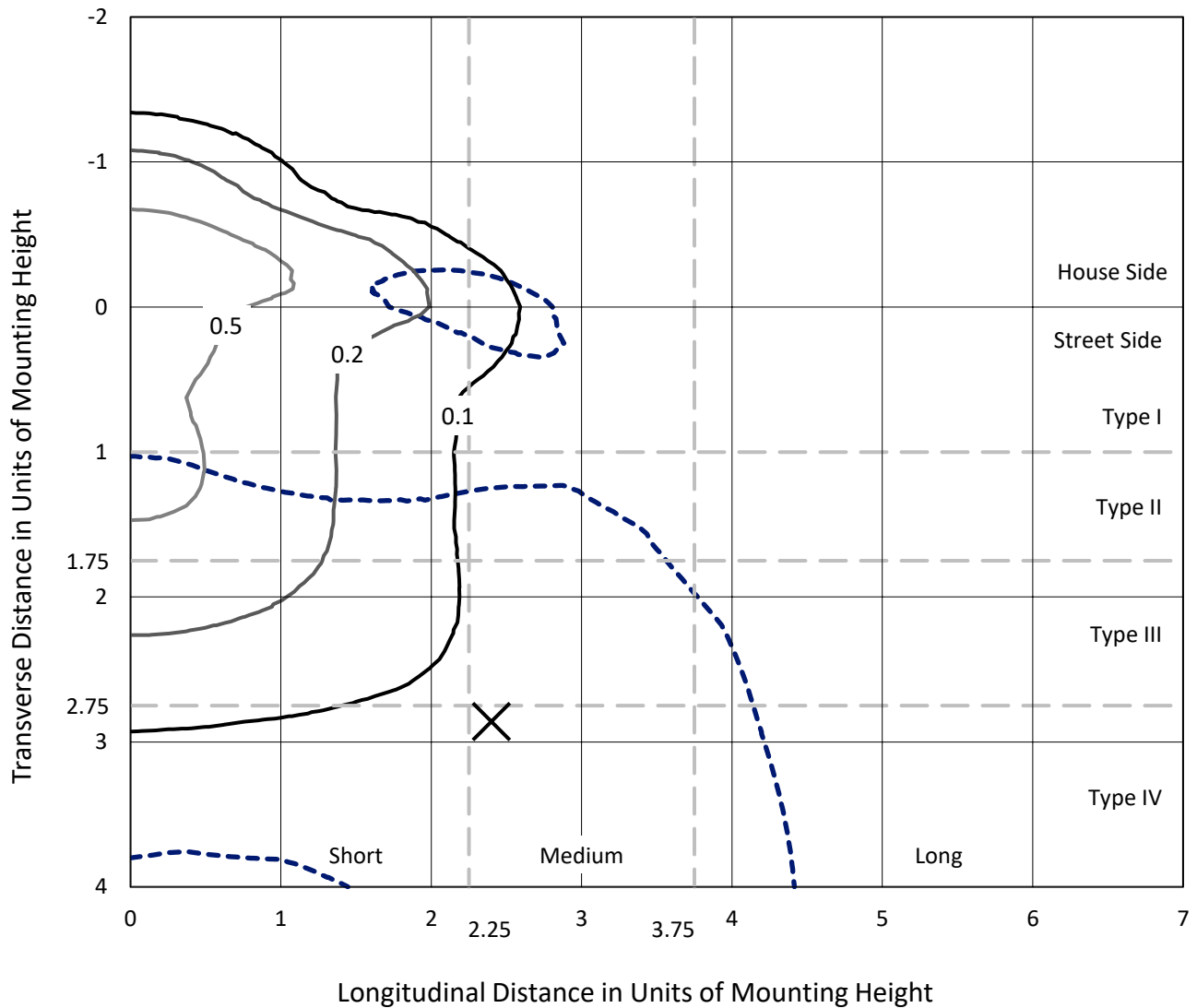
Lumens per Lamp: N/A  
Luminaire Lumens: 3997 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P938792  
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### Iso-Footcandle Lines of Horizontal Illumination

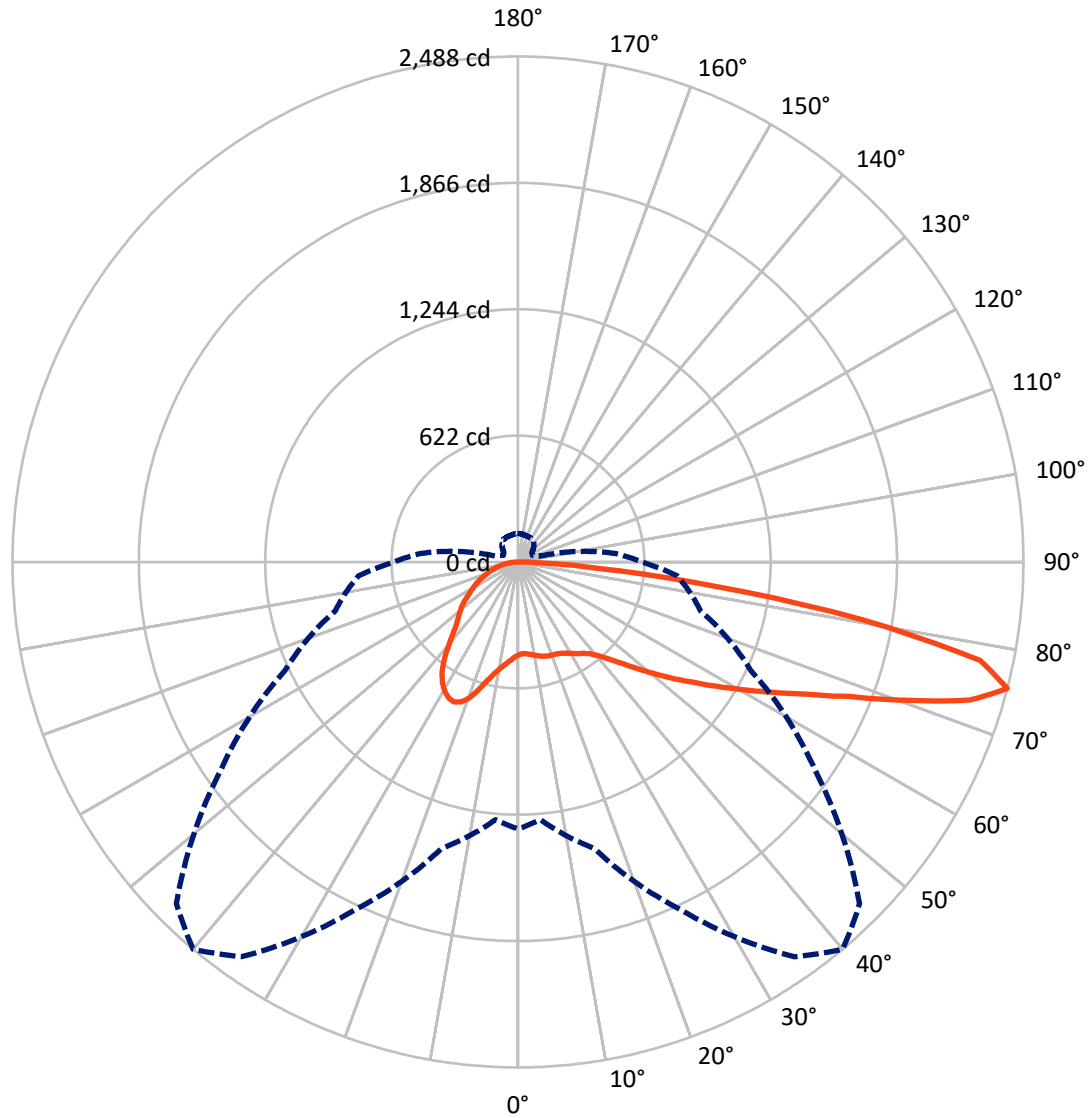
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P938792  
CATALOG NUMBER: GALN-SB1A-830-U-SL4

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SB1A-830-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1238.4	0.0	1238.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	2758.6	0.0	2758.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	3997.0	0.0	3997.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.6	1.1
10°-20°	153.2	3.8
20°-30°	279.7	7.0
30°-40°	396.7	9.9
40°-50°	535.6	13.4
50°-60°	720.6	18.0
60°-70°	914.6	22.9
70°-80°	830.0	20.8
80°-90°	121.0	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°	3997.0	100.0
0°-180°	3997.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P938792

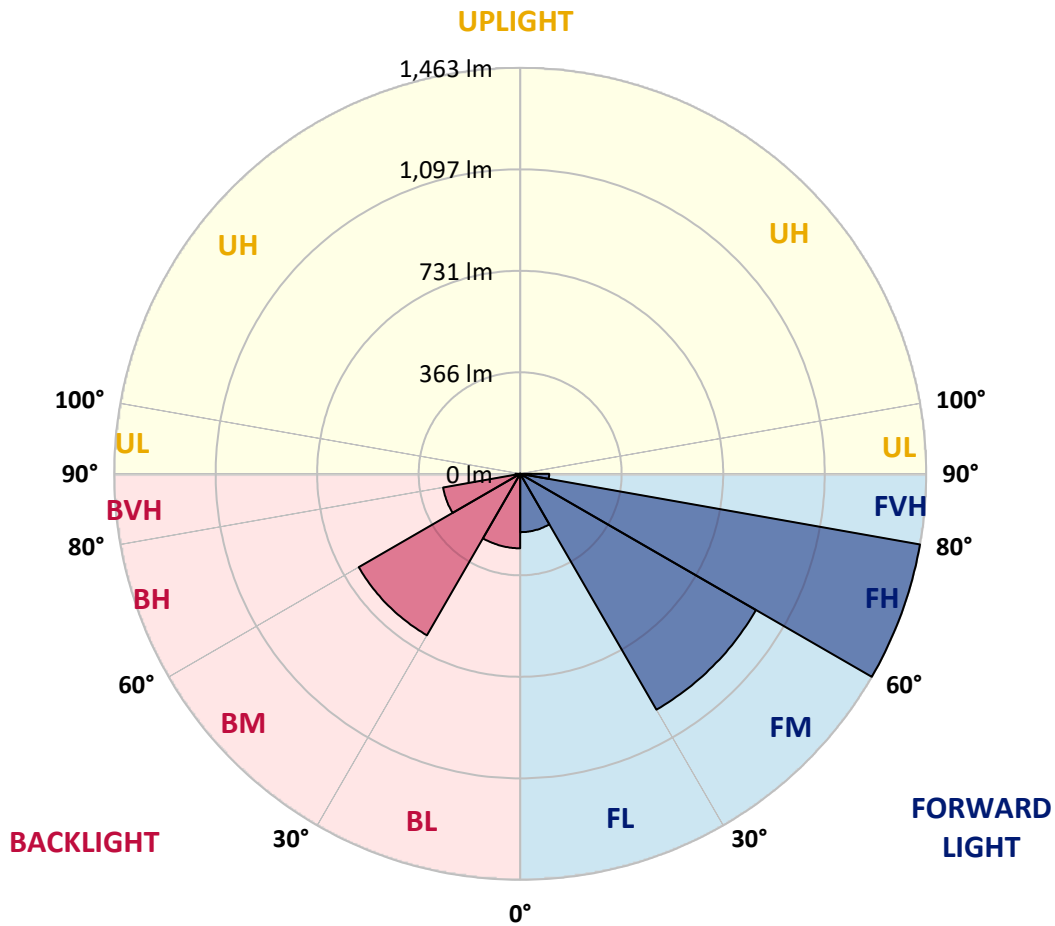
CATALOG NUMBER: GALN-SB1A-830-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.2	5.3			
FM (30°-60°)	981.2	24.5			
FH (60°-80°)	1462.8	36.6			G1/1800
FVH (80°-90°)	104.3	2.6			G2/225
BL (0°-30°)	268.2	6.7	B1/500		
BM (30°-60°)	671.7	16.8	B1/1000		
BH (60°-80°)	281.8	7.0	B1/500		G1/500
BVH (80°-90°)	16.7	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



REPORT NUMBER: P938792  
 CATALOG NUMBER: GALN-SB1A-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1
2.5°	450.1	452.6	452.0	451.1	451.1	451.3	451.1	452.6	454.1	455.6
5°	454.7	457.3	456.0	454.9	454.1	453.9	453.2	453.0	453.9	455.8
7.5°	463.8	466.4	464.5	462.6	460.9	460.0	459.2	457.9	457.3	458.3
10°	474.0	476.6	474.2	470.8	468.1	467.0	466.2	464.9	464.1	464.7
12.5°	484.2	486.7	483.6	478.9	475.3	474.7	473.6	473.2	473.0	472.7
15°	493.7	495.9	491.8	486.3	482.5	481.4	480.4	481.0	482.1	483.3
17.5°	501.2	503.3	497.3	490.1	486.5	486.1	485.5	487.6	490.6	493.7
20°	507.9	510.1	502.4	492.7	488.4	488.4	488.6	493.1	497.3	502.0
22.5°	517.5	519.2	509.8	496.5	490.3	490.8	492.5	496.9	502.2	508.6
25°	531.7	533.0	521.5	503.7	496.7	498.0	499.5	501.6	506.7	514.1
27.5°	554.6	555.6	540.6	516.4	505.8	507.9	510.1	508.6	510.9	517.3
30°	586.8	587.4	568.4	536.3	521.3	522.4	522.8	516.6	512.2	517.3
32.5°	625.0	624.8	602.1	560.5	538.9	537.8	534.2	522.1	511.8	516.2
35°	684.1	681.8	652.5	594.4	558.8	552.2	543.8	528.3	513.9	515.1
37.5°	782.1	774.8	734.4	650.0	588.5	571.8	559.2	538.3	518.5	514.7
40°	892.5	883.4	838.9	726.1	633.0	606.1	586.0	552.5	526.2	516.6
42.5°	1023.5	1010.6	962.7	815.8	689.4	650.4	620.1	570.5	537.4	522.8
45°	1184.4	1167.2	1099.4	916.9	760.4	708.5	668.0	597.8	554.6	534.7
47.5°	1347.0	1351.3	1254.8	1032.6	845.7	780.1	728.0	639.0	579.6	553.7
50°	1519.8	1522.8	1409.3	1160.9	942.3	861.1	795.4	685.0	614.4	580.9
52.5°	1654.6	1655.0	1549.7	1295.1	1043.0	950.2	868.1	737.5	654.6	616.9
55°	1739.0	1737.9	1648.1	1422.1	1158.8	1043.7	948.7	797.3	703.8	659.3
57.5°	1800.3	1797.1	1715.9	1531.2	1282.1	1154.1	1039.8	865.2	761.9	709.8
60°	1823.6	1821.7	1761.9	1625.6	1411.9	1276.2	1145.0	941.0	827.8	769.3
62.5°	1832.5	1836.1	1807.0	1717.0	1550.7	1411.5	1260.5	1031.8	902.0	836.7
65°	1863.9	1870.4	1864.5	1836.5	1707.6	1569.8	1413.8	1139.7	983.0	909.0
67.5°	1926.0	1932.6	1935.1	1979.6	1899.3	1767.2	1605.0	1274.1	1077.8	984.1
70°	1924.5	1922.6	1967.5	2093.5	2139.2	2040.5	1862.8	1439.4	1190.8	1046.4
72.5°	1751.7	1736.5	1842.7	2092.2	2338.9	2325.8	2177.6	1652.7	1288.3	1054.0
75°	1314.2	1273.5	1461.1	1885.5	2372.2	2487.8	2377.7	1785.0	1265.2	931.3
77.5°	562.0	521.1	742.2	1395.8	2123.1	2325.6	2194.2	1557.3	1009.9	615.8
80°	147.1	146.9	224.3	632.8	1443.9	1717.4	1506.7	1005.7	577.1	220.1
82.5°	60.8	59.4	82.5	246.1	705.5	963.7	786.5	448.6	208.4	59.6
85°	22.7	22.5	40.1	85.0	248.9	397.5	287.7	114.7	51.9	29.0
87.5°	6.4	6.1	8.7	29.5	60.6	92.0	49.2	18.9	14.6	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938792  
 CATALOG NUMBER: GALN-SB1A-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
457.1	0°	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1	457.1
457.9	2.5°	458.5	459.6	461.5	463.0	464.9	467.0	470.0	471.9	473.8	475.1
459.0	5°	460.5	462.8	467.7	472.5	478.3	483.6	489.7	494.2	497.8	498.8
462.8	7.5°	464.7	468.5	476.8	485.0	494.2	502.9	511.8	519.4	525.5	527.9
469.6	10°	472.1	477.2	488.9	500.5	512.6	526.0	537.4	548.4	557.1	560.7
477.6	12.5°	481.4	487.8	503.1	519.2	535.9	554.4	569.2	582.8	593.6	598.5
488.9	15°	493.5	501.8	521.3	542.9	567.5	593.2	612.0	627.1	639.2	645.1
500.5	17.5°	506.7	517.7	542.3	574.9	610.1	643.8	665.9	676.9	689.4	695.1
511.3	20°	519.4	533.0	568.1	615.6	662.5	698.3	716.1	719.1	719.9	720.6
521.5	22.5°	532.5	550.8	600.6	666.9	717.2	742.0	744.5	731.8	714.0	705.7
531.5	25°	546.9	571.1	643.0	723.5	764.2	767.2	747.7	716.8	683.0	667.6
539.5	27.5°	560.9	594.6	693.9	777.6	798.2	772.1	730.1	686.2	645.5	629.2
545.3	30°	574.9	621.6	750.0	824.9	813.6	760.0	702.3	653.4	612.5	595.3
550.3	32.5°	589.1	652.9	814.7	859.0	810.9	734.4	667.8	616.5	580.4	562.4
554.8	35°	605.2	691.5	876.0	877.7	792.4	696.6	622.2	572.4	541.0	526.6
560.1	37.5°	626.2	740.5	930.0	882.3	760.2	641.3	565.6	520.2	494.4	487.8
567.9	40°	652.3	799.4	971.4	874.9	712.5	574.1	503.7	467.5	452.8	454.3
578.5	42.5°	686.2	865.4	1000.4	855.8	646.2	504.8	449.4	433.3	440.3	446.3
594.4	45°	730.3	933.8	1018.4	823.4	571.1	446.0	417.4	421.2	426.5	427.2
620.1	47.5°	786.7	1003.2	1030.3	774.4	494.6	404.7	397.1	397.9	396.9	392.4
658.5	50°	857.1	1070.6	1040.9	709.5	429.5	378.8	368.7	365.7	351.1	336.6
709.5	52.5°	937.2	1132.5	1045.3	629.0	378.8	357.2	340.7	322.0	294.7	290.2
773.8	55°	1026.3	1189.7	1033.9	530.0	336.2	329.4	304.4	282.0	279.0	275.2
858.4	57.5°	1132.7	1251.4	1010.6	419.5	292.6	297.0	272.6	275.2	269.9	263.9
967.1	60°	1249.1	1315.2	969.7	318.8	247.4	256.5	264.4	264.1	262.7	257.8
1081.8	62.5°	1353.8	1357.2	889.1	244.2	207.8	225.1	246.6	246.3	245.1	242.3
1201.6	65°	1416.1	1350.8	754.7	192.3	175.1	199.3	222.4	224.1	224.3	224.1
1291.7	67.5°	1405.1	1276.4	570.3	153.1	148.2	173.0	198.4	200.8	202.5	202.9
1303.1	70°	1280.5	1113.0	371.8	122.1	124.2	149.9	175.7	178.1	179.6	181.3
1130.8	72.5°	998.1	818.3	212.8	98.8	103.2	130.0	153.3	156.0	156.9	160.1
786.9	75°	608.2	481.2	114.9	77.8	84.8	111.1	131.0	134.2	135.7	139.5
386.5	77.5°	289.2	208.4	65.5	60.6	68.3	90.7	110.7	114.3	110.2	112.4
106.6	80°	97.7	77.4	41.3	46.2	52.2	70.8	88.6	92.2	83.7	83.3
35.4	82.5°	34.1	31.4	26.3	30.7	33.7	50.7	67.0	71.7	62.3	62.1
15.9	85°	13.4	12.7	14.6	16.7	20.1	31.2	44.1	46.4	38.4	31.0
4.7	87.5°	2.8	3.0	3.6	3.8	6.1	10.8	15.9	19.5	15.5	13.1
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>
457.1
474.2
499.2
528.1
560.9
598.5
644.7
694.9
722.3
708.1
669.9
631.1
597.2
564.8
529.8
492.5
459.4
451.8
431.4
395.8
338.6
291.7
275.8
262.9
256.1
241.3
224.1
203.3
182.1
161.3
139.9
110.7
82.5
59.1
30.5
12.1
0.0

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