

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: P946943

Luminaire Tested: **GALN-SB2B-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6909 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

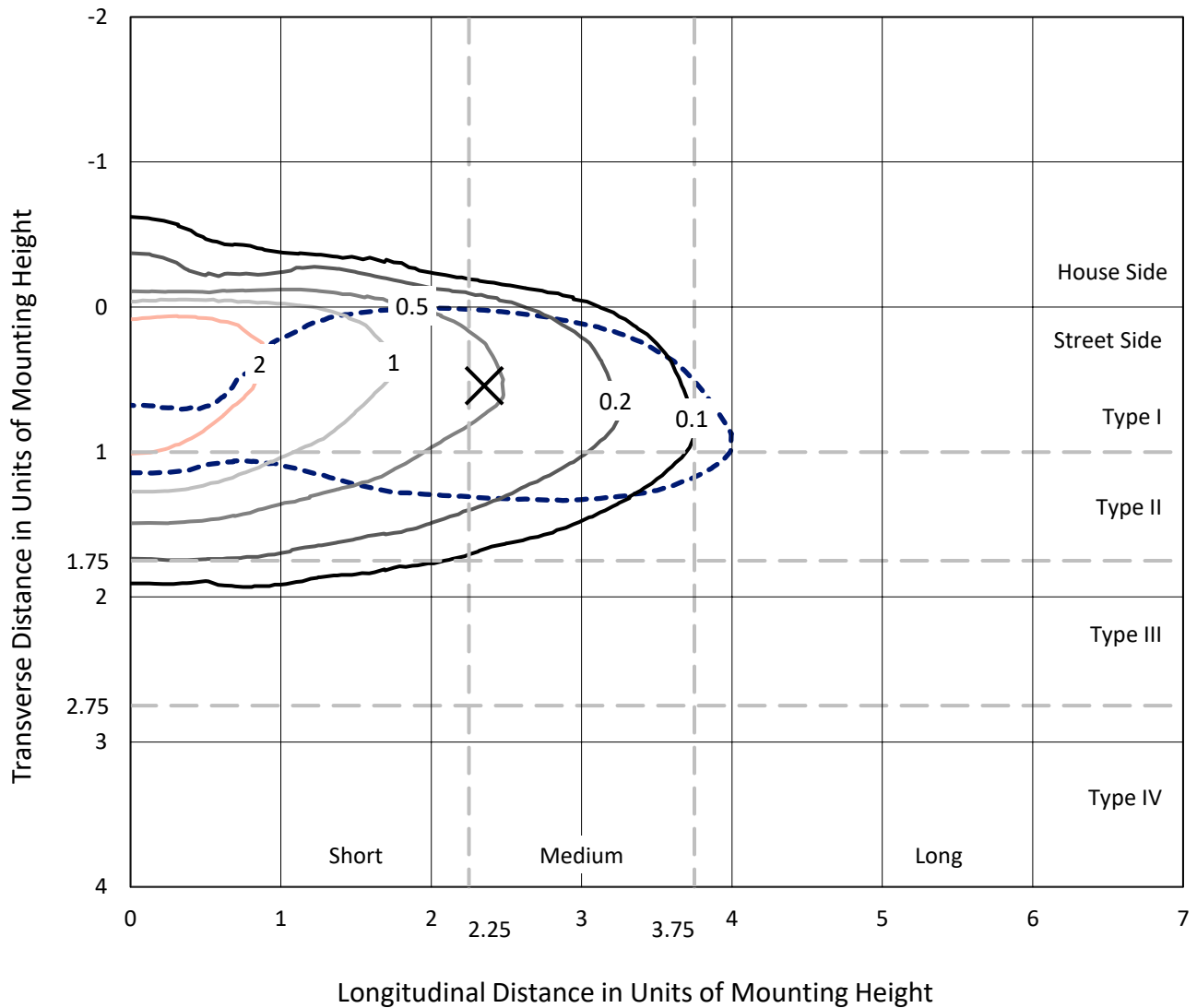
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

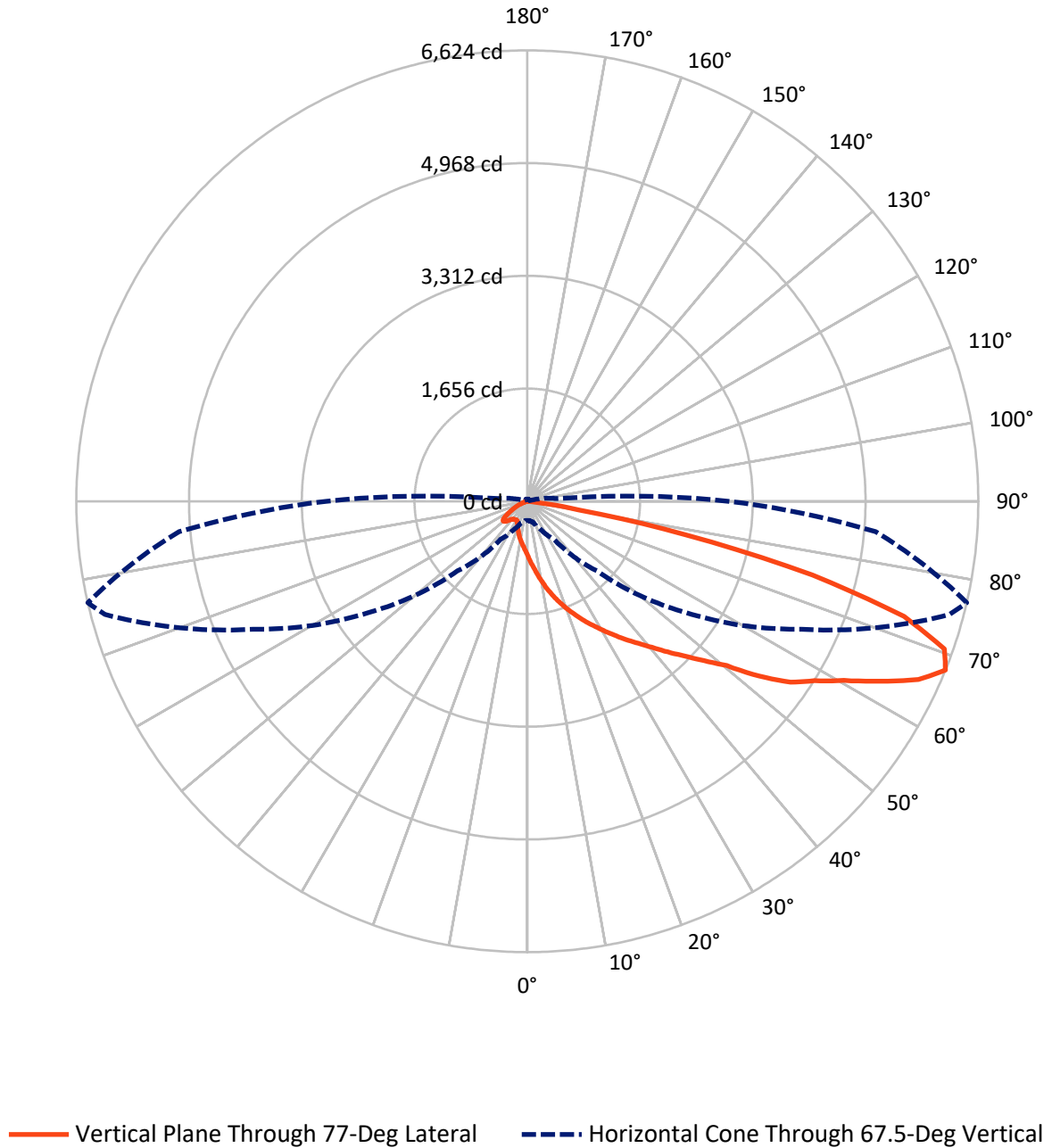
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	508.3	0.0	508.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	6400.7	0.0	6400.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	6909.0	0.0	6909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.2
10°-20°	284.8	4.1
20°-30°	549.5	8.0
30°-40°	954.0	13.8
40°-50°	1385.1	20.0
50°-60°	1590.7	23.0
60°-70°	1381.0	20.0
70°-80°	650.5	9.4
80°-90°	32.2	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°	6909.0	100.0
0°-180°	6909.0	100.0

Coefficient of Utilization



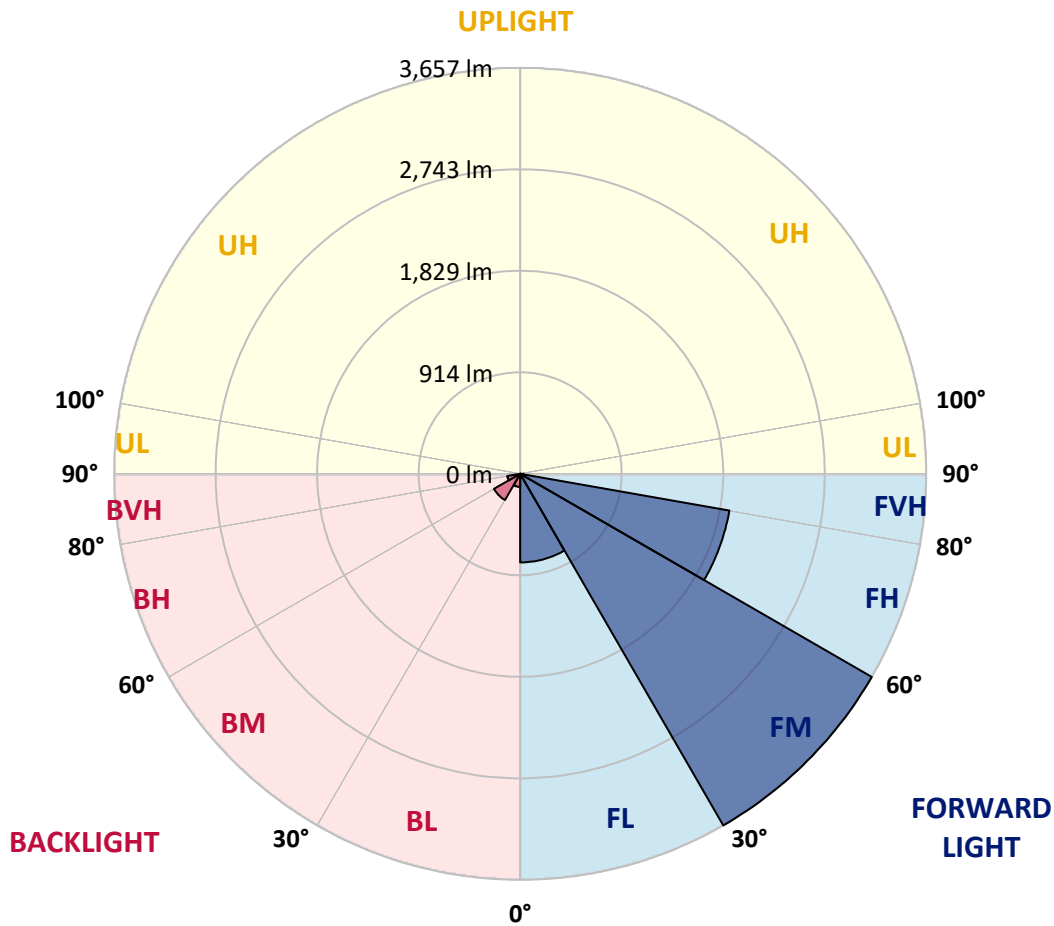
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.9	11.5			
FM (30°-60°)	3657.4	52.9			
FH (60°-80°)	1913.8	27.7			G2/5000
FVH (80°-90°)	31.6	0.5			G1/100
BL (0°-30°)	117.7	1.7	B1/500		
BM (30°-60°)	272.4	3.9	B1/1000		
BH (60°-80°)	117.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7
2.5°	1103.0	1109.9	1100.0	1081.2	1052.8	1034.4	989.3	946.9	899.7	884.7
5°	1344.6	1350.6	1339.4	1318.8	1281.1	1245.0	1185.8	1097.0	1004.8	975.2
7.5°	1523.5	1526.9	1522.6	1503.8	1467.7	1427.0	1360.9	1255.8	1118.9	1086.3
10°	1652.2	1663.4	1662.1	1654.8	1630.7	1597.7	1527.3	1407.6	1246.8	1204.7
12.5°	1737.6	1750.0	1757.3	1773.6	1772.3	1751.3	1689.5	1563.0	1374.2	1324.8
15°	1762.5	1775.8	1803.6	1841.4	1874.9	1885.6	1842.3	1715.3	1514.5	1451.4
17.5°	1748.3	1768.9	1802.4	1862.0	1935.4	1983.8	1979.1	1862.4	1641.9	1569.8
20°	1779.6	1799.4	1825.5	1875.7	1961.1	2049.0	2084.2	2003.1	1768.5	1693.0
22.5°	1952.9	1949.5	1952.1	1960.2	2011.3	2098.4	2170.9	2131.0	1893.7	1816.5
25°	2227.5	2212.1	2185.9	2141.7	2128.8	2170.9	2246.4	2244.3	2025.9	1943.1
27.5°	2542.4	2539.9	2478.5	2372.1	2312.0	2295.7	2331.8	2354.5	2156.7	2068.4
30°	2844.0	2850.9	2768.1	2649.7	2539.4	2475.5	2442.9	2459.2	2289.7	2203.5
32.5°	3106.6	3113.9	3023.8	2885.2	2748.8	2671.6	2602.9	2562.6	2434.7	2340.8
35°	3328.4	3335.7	3232.3	3079.2	2933.7	2863.8	2786.1	2675.9	2580.6	2493.1
37.5°	3526.6	3524.5	3385.9	3231.5	3088.6	3033.2	2992.5	2815.3	2730.8	2646.3
40°	3643.8	3652.8	3534.4	3364.0	3225.4	3185.1	3182.5	2988.2	2904.1	2822.2
42.5°	3678.1	3694.0	3608.1	3468.3	3342.6	3298.8	3366.2	3175.3	3105.8	3026.0
45°	3616.3	3631.7	3592.7	3495.7	3422.4	3394.1	3524.1	3369.2	3321.1	3242.2
47.5°	3436.1	3455.4	3464.8	3444.3	3443.4	3472.1	3665.6	3573.4	3576.8	3496.2
50°	3087.3	3119.9	3206.6	3279.5	3392.3	3533.9	3803.4	3794.8	3865.1	3795.6
52.5°	2453.2	2499.5	2798.1	2997.6	3251.2	3522.3	3954.8	4150.0	4371.0	4269.3
55°	1971.4	1971.4	2214.2	2587.5	2975.8	3446.0	4020.9	4380.8	4715.5	4691.4
57.5°	1607.1	1626.5	1781.3	2111.3	2577.2	3264.1	4061.6	4525.8	4993.1	4975.5
60°	991.9	1033.5	1326.1	1651.8	2123.7	2940.1	4035.9	4672.6	5329.8	5344.0
62.5°	558.6	574.0	704.5	1188.4	1651.3	2504.7	3839.0	4754.5	5760.6	5820.7
65°	385.7	393.4	443.6	739.6	1144.7	1994.1	3454.1	4703.5	6192.2	6313.6
67.5°	280.2	284.0	315.3	451.8	679.2	1445.8	2850.9	4446.0	6420.9	6623.8
70°	215.4	217.9	240.7	296.9	401.1	892.4	2070.5	3934.2	6255.3	6497.7
72.5°	175.0	177.6	195.2	219.7	266.0	527.7	1254.9	3195.0	5524.2	5785.9
75°	147.6	151.0	166.9	182.8	208.5	338.9	588.6	2225.0	4154.3	4325.9
77.5°	81.9	75.5	135.6	151.4	175.9	214.5	275.4	1309.4	2326.6	2374.3
80°	51.1	52.8	107.7	121.8	135.1	108.1	126.1	504.1	806.6	766.2
82.5°	3.0	6.9	82.8	88.0	92.7	46.3	47.6	171.2	194.4	178.5
85°	0.0	0.0	37.8	30.5	32.2	13.3	13.7	39.9	26.2	28.3
87.5°	0.0	0.0	0.0	0.9	0.0	1.3	2.6	3.4	1.3	1.7
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°
796.7	0°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7
837.5	2.5°	807.4	777.4	716.5	656.8	608.4	563.3	531.1	500.7	485.2	484.4
891.5	5°	831.9	768.8	647.0	539.3	452.6	383.1	338.1	305.9	289.6	284.0
958.0	7.5°	866.2	771.4	586.1	436.3	334.2	274.6	248.8	238.5	235.1	231.2
1033.1	10°	909.5	777.4	531.6	351.4	263.4	233.4	223.1	218.8	216.2	213.7
1117.6	12.5°	958.0	783.0	477.5	291.7	231.7	216.2	208.9	203.8	200.4	197.4
1204.3	15°	1005.2	786.4	421.3	250.1	215.4	202.9	195.2	189.6	184.9	181.5
1289.2	17.5°	1052.0	791.1	368.5	225.2	202.1	189.6	181.9	175.0	171.2	167.3
1378.5	20°	1103.9	790.3	318.8	207.7	188.8	176.3	168.2	161.7	157.9	153.6
1472.9	22.5°	1151.9	786.0	275.0	192.6	175.0	163.0	154.0	147.6	143.7	140.3
1569.4	25°	1207.3	782.6	238.5	178.9	162.2	150.2	140.3	134.3	130.0	127.0
1666.4	27.5°	1260.5	777.4	211.9	166.5	149.7	138.1	128.7	121.8	118.0	115.8
1766.3	30°	1312.8	776.1	202.1	154.5	138.6	127.0	117.6	111.1	108.1	107.3
1876.1	32.5°	1375.9	779.5	206.4	150.2	128.3	116.7	107.7	103.0	100.0	100.0
1998.4	35°	1443.3	778.7	212.8	154.0	121.4	106.4	99.5	96.5	93.5	93.5
2134.0	37.5°	1527.8	780.0	217.9	160.5	118.8	97.8	94.0	90.1	88.4	88.4
2282.4	40°	1653.9	822.5	215.4	166.0	118.0	91.8	84.1	82.8	81.5	81.5
2450.2	42.5°	1808.4	914.7	218.8	166.5	117.6	87.5	77.2	79.8	76.8	76.4
2639.4	45°	1977.4	1015.5	240.7	157.5	117.1	85.4	73.8	76.8	72.1	72.1
2858.6	47.5°	2145.2	1115.5	263.0	144.6	115.8	84.9	70.8	69.1	67.8	68.2
3144.4	50°	2376.4	1197.0	271.6	127.0	112.8	84.1	65.2	65.6	64.8	65.6
3547.2	52.5°	2628.2	1214.2	261.3	107.3	104.3	81.5	61.4	63.1	62.6	63.5
3830.8	55°	2785.3	1195.7	215.8	89.2	91.0	71.2	57.5	60.9	60.9	60.9
4108.0	57.5°	2947.4	1117.2	153.2	72.5	75.5	58.3	54.1	58.8	58.3	57.9
4441.8	60°	3064.1	990.2	100.8	59.6	60.1	48.1	50.2	55.3	54.9	52.8
4785.8	62.5°	3151.2	849.9	64.8	50.6	45.9	43.3	45.9	50.2	48.5	43.8
5077.6	65°	3141.4	655.6	49.8	43.3	37.8	37.8	39.9	43.8	38.6	30.9
5133.3	67.5°	2958.2	443.6	41.2	36.5	31.7	31.3	33.0	36.5	33.0	26.2
4847.6	70°	2630.8	290.0	33.0	28.3	25.3	23.2	26.6	31.3	27.9	21.0
4126.8	72.5°	2135.3	176.8	24.9	20.6	18.4	15.0	21.0	25.7	22.3	15.4
2869.8	75°	1381.5	90.1	17.2	13.3	9.9	9.0	15.4	19.3	15.4	9.4
1273.4	77.5°	528.6	37.8	9.4	6.0	5.1	4.3	8.6	11.6	6.4	2.1
246.7	80°	101.7	15.9	4.7	3.0	2.6	1.7	1.3	0.9	0.0	0.0
43.8	82.5°	17.6	5.1	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
8.6	85°	6.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	87.5°	2.1	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>
796.7
483.5
283.2
230.4
212.8
196.5
181.1
166.9
153.2
139.9
126.6
115.8
106.8
100.0
93.5
88.4
81.5
75.9
72.1
68.2
65.6
63.5
60.9
57.9
52.8
42.9
30.0
25.3
20.2
14.6
8.2
1.7
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