

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: P957674

Luminaire Tested: **GALN-SB9D-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957674
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-SB9D-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA 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: 54592 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

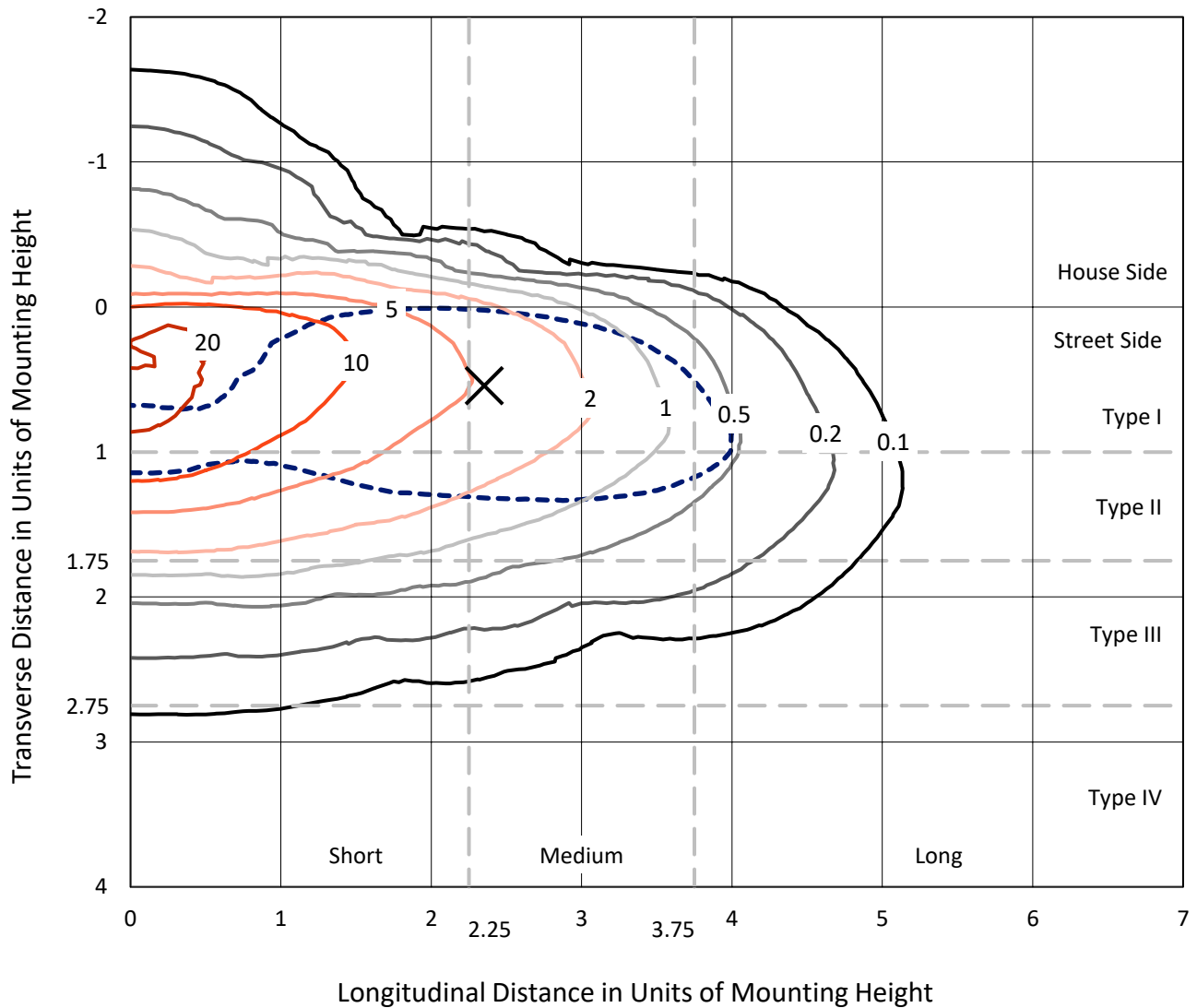
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

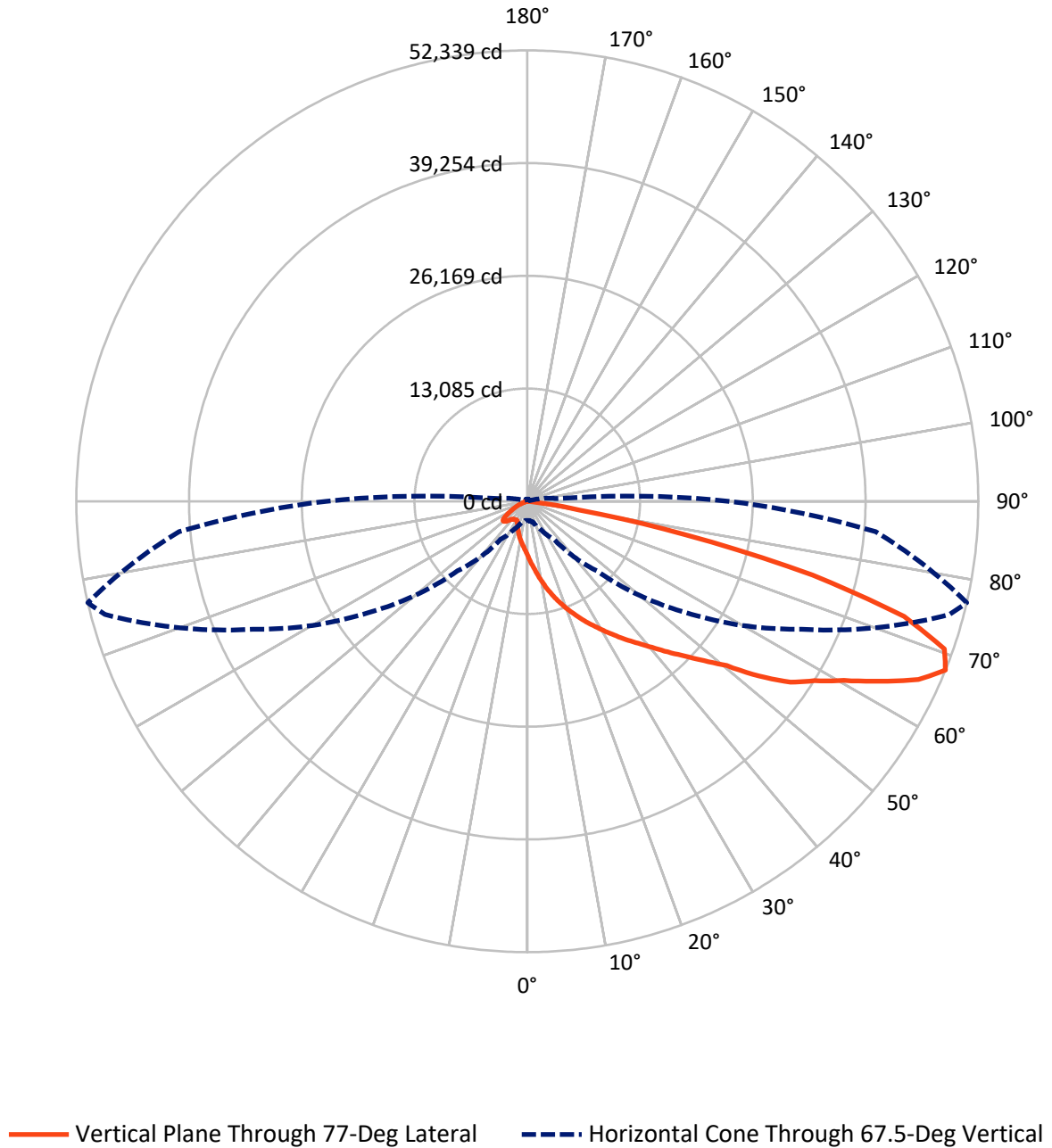
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 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	4016.4	0.0	4016.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	50575.6	0.0	50575.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	54592.0	0.0	54592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.5	1.2
10°-20°	2250.1	4.1
20°-30°	4342.0	8.0
30°-40°	7538.0	13.8
40°-50°	10944.8	20.0
50°-60°	12568.7	23.0
60°-70°	10912.0	20.0
70°-80°	5139.7	9.4
80°-90°	254.2	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°	54592.0	100.0
0°-180°	54592.0	100.0

Coefficient of Utilization



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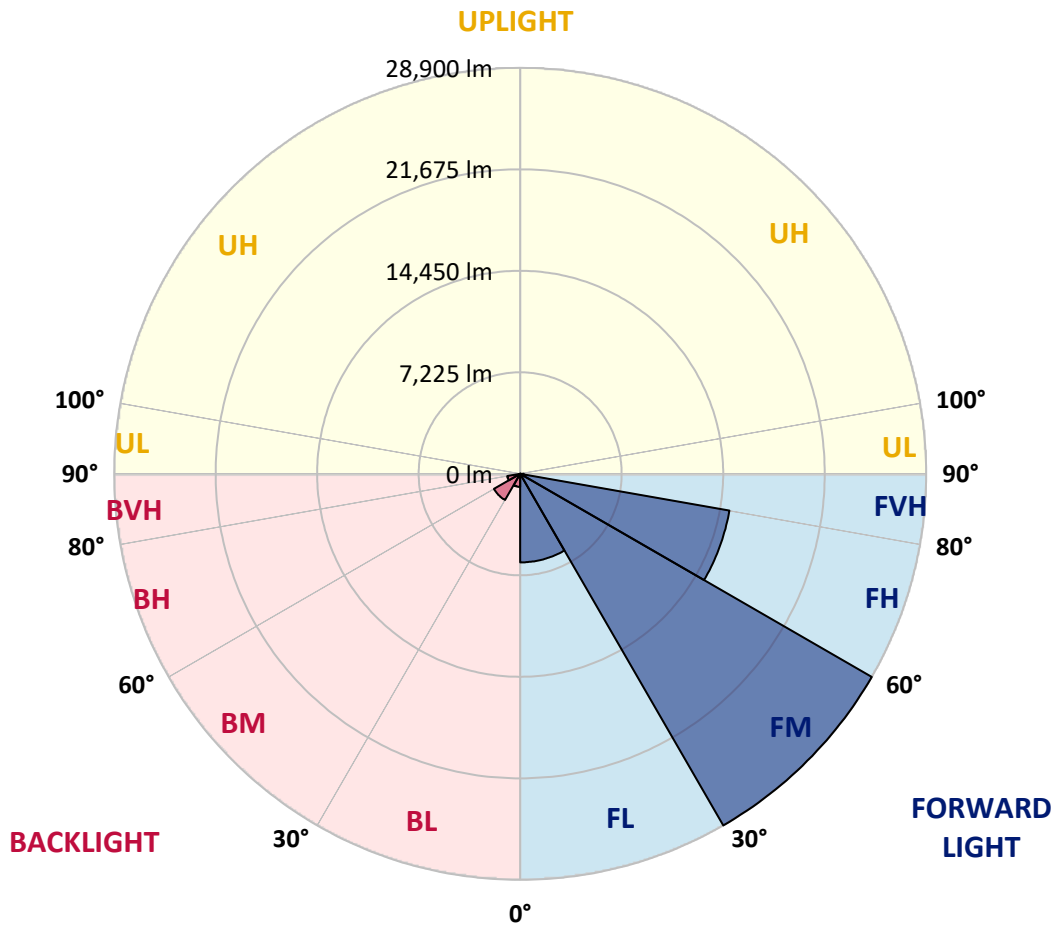
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6304.8	11.5			
FM (30°-60°)	28899.5	52.9			
FH (60°-80°)	15121.8	27.7			G5
FVH (80°-90°)	249.5	0.5			G3/500
BL (0°-30°)	929.8	1.7	B2/1000		
BM (30°-60°)	2152.0	3.9	B2/2500		
BH (60°-80°)	929.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3
2.5°	8715.7	8770.0	8692.0	8542.8	8319.1	8173.3	7817.4	7481.8	7108.9	6990.2
5°	10624.3	10671.8	10583.6	10420.9	10122.6	9837.8	9370.0	8668.3	7939.4	7705.5
7.5°	12037.9	12065.1	12031.2	11882.0	11597.2	11275.2	10753.1	9922.6	8841.2	8583.5
10°	13055.0	13143.1	13132.9	13075.3	12885.5	12624.4	12068.5	11122.6	9851.4	9519.2
12.5°	13729.6	13827.9	13885.5	14014.3	14004.2	13838.0	13349.9	12349.8	10858.2	10468.4
15°	13926.2	14031.3	14251.6	14549.9	14814.4	14899.1	14556.7	13553.3	11966.8	11468.4
17.5°	13814.3	13977.0	14241.5	14712.7	15292.4	15675.4	15638.1	14716.1	12973.6	12404.1
20°	14061.8	14217.7	14424.5	14821.2	15495.8	16190.7	16468.7	15828.0	13973.6	13377.0
22.5°	15431.4	15404.2	15424.6	15489.0	15892.4	16580.6	17153.5	16838.2	14963.5	14353.3
25°	17601.0	17478.9	17272.1	16923.0	16821.3	17153.5	17750.1	17733.2	16007.7	15353.4
27.5°	20089.2	20068.9	19584.1	18743.4	18268.8	18140.0	18424.7	18604.4	17041.6	16343.3
30°	22472.4	22526.7	21872.4	20936.7	20065.5	19560.4	19302.8	19431.6	18092.5	17411.1
32.5°	24547.1	24604.7	23892.8	22797.9	21719.8	21109.6	20567.2	20248.6	19238.3	18495.9
35°	26299.7	26357.4	25540.4	24330.1	23180.9	22628.4	22014.8	21143.5	20390.9	19699.4
37.5°	27865.9	27849.0	26754.0	25533.6	24404.7	23967.4	23645.4	22245.3	21577.5	20909.6
40°	28791.4	28862.6	27927.0	26581.1	25486.1	25167.5	25147.1	23611.5	22947.0	22299.5
42.5°	29062.6	29188.0	28510.0	27404.9	26411.6	26065.8	26598.1	25089.5	24540.3	23909.8
45°	28574.4	28696.5	28388.0	27621.9	27042.2	26818.4	27845.6	26621.8	26242.1	25618.4
47.5°	27150.6	27303.2	27377.8	27215.1	27208.3	27435.4	28964.3	28235.4	28262.6	27625.2
50°	24394.6	24652.2	25337.0	25913.3	26804.9	27923.6	30052.5	29984.7	30540.7	29991.5
52.5°	19384.1	19750.2	22109.7	23686.0	25689.5	27832.0	31249.2	32791.6	34537.5	33734.1
55°	15577.1	15577.1	17495.9	20445.2	23513.2	27228.6	31771.2	34615.5	37259.7	37069.8
57.5°	12699.0	12851.6	14075.3	16682.3	20363.8	25791.2	32093.3	35761.3	39453.0	39314.0
60°	7837.7	8166.5	10478.5	13051.6	16780.6	23231.8	31889.9	36920.7	42114.2	42226.0
62.5°	4413.8	4535.8	5566.4	9390.3	13048.2	19790.9	30333.9	37568.2	45517.7	45992.3
65°	3047.6	3108.6	3505.3	5844.4	9044.6	15756.8	27293.0	37164.7	48928.1	49887.5
67.5°	2213.7	2244.2	2491.7	3569.7	5366.4	11424.4	22526.7	35130.7	50735.0	52338.5
70°	1701.8	1722.1	1901.8	2345.9	3169.7	7051.2	16360.2	31086.4	49426.4	51341.8
72.5°	1383.1	1403.5	1542.5	1735.7	2101.8	4169.7	9915.8	25245.5	43649.8	45717.8
75°	1166.2	1193.3	1318.7	1444.1	1647.5	2678.1	4651.1	17580.6	32825.5	34181.5
77.5°	647.5	596.6	1071.2	1196.7	1389.9	1695.0	2176.4	10346.3	18384.1	18760.3
80°	403.4	417.0	850.9	962.8	1067.9	854.3	996.7	3983.3	6373.2	6054.6
82.5°	23.7	54.2	654.3	695.0	732.2	366.1	376.3	1352.6	1535.7	1410.2
85°	0.0	0.0	298.3	240.7	254.3	105.1	108.5	315.3	206.8	223.7
87.5°	0.0	0.0	0.0	6.8	0.0	10.2	20.3	27.1	10.2	13.6
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°
6295.3	0°	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3	6295.3
6617.3	2.5°	6380.0	6142.7	5661.3	5190.1	4807.0	4451.1	4196.8	3956.1	3834.1	3827.3
7044.5	5°	6573.2	6074.9	5112.1	4261.3	3576.5	3027.3	2671.3	2417.1	2288.3	2244.2
7569.9	7.5°	6844.4	6095.2	4630.8	3447.6	2640.8	2169.6	1966.2	1884.8	1857.7	1827.2
8163.2	10°	7186.8	6142.7	4200.2	2776.4	2081.5	1844.2	1762.8	1728.9	1708.6	1688.2
8831.0	12.5°	7569.9	6186.8	3773.1	2305.2	1830.6	1708.6	1650.9	1610.3	1583.1	1559.4
9515.8	15°	7942.8	6213.9	3329.0	1976.4	1701.8	1603.5	1542.5	1498.4	1461.1	1434.0
10187.0	17.5°	8312.3	6251.2	2912.0	1779.8	1596.7	1498.4	1437.4	1383.1	1352.6	1322.1
10892.1	20°	8722.5	6244.4	2518.8	1640.8	1491.6	1393.3	1328.9	1278.0	1247.5	1213.6
11637.9	22.5°	9102.2	6210.5	2173.0	1522.1	1383.1	1288.2	1217.0	1166.2	1135.7	1108.5
12400.7	25°	9539.5	6183.4	1884.8	1413.6	1281.4	1186.5	1108.5	1061.1	1027.2	1003.4
13166.8	27.5°	9959.9	6142.7	1674.7	1315.3	1183.1	1091.6	1017.0	962.8	932.3	915.3
13956.7	30°	10373.4	6132.5	1596.7	1220.4	1095.0	1003.4	928.9	878.0	854.3	847.5
14824.5	32.5°	10871.8	6159.7	1630.6	1186.5	1013.6	922.1	850.9	813.6	789.9	789.9
15790.7	35°	11404.0	6152.9	1681.4	1217.0	959.4	840.7	786.5	762.8	739.0	739.0
16861.9	37.5°	12071.8	6163.0	1722.1	1267.9	939.0	772.9	742.4	711.9	698.3	698.3
18034.9	40°	13068.5	6498.7	1701.8	1311.9	932.3	725.5	664.4	654.3	644.1	644.1
19360.4	42.5°	14288.9	7227.5	1728.9	1315.3	928.9	691.6	610.2	630.5	606.8	603.4
20855.4	45°	15624.6	8024.2	1901.8	1244.1	925.5	674.6	583.1	606.8	569.5	569.5
22587.7	47.5°	16950.1	8814.0	2078.1	1142.4	915.3	671.2	559.4	545.8	535.6	539.0
24845.4	50°	18777.3	9458.1	2145.9	1003.4	891.6	664.4	515.3	518.7	511.9	518.7
28028.7	52.5°	20767.2	9593.7	2064.5	847.5	823.8	644.1	484.8	498.3	494.9	501.7
30269.5	55°	22008.0	9448.0	1705.2	705.1	718.7	562.7	454.3	481.4	481.4	481.4
32459.4	57.5°	23289.4	8827.6	1210.2	572.9	596.6	461.0	427.1	464.4	461.0	457.7
35096.8	60°	24211.5	7824.2	796.7	471.2	474.6	379.7	396.6	437.3	433.9	417.0
37815.6	62.5°	24899.7	6715.6	511.9	400.0	362.7	342.4	362.7	396.6	383.1	345.8
40120.8	65°	24821.7	5179.9	393.2	342.4	298.3	298.3	315.3	345.8	305.1	244.1
40561.5	67.5°	23374.2	3505.3	325.4	288.2	250.9	247.5	261.0	288.2	261.0	206.8
38303.8	70°	20787.6	2291.7	261.0	223.7	200.0	183.1	210.2	247.5	220.4	166.1
32608.6	72.5°	16872.1	1396.7	196.6	162.7	145.8	118.7	166.1	203.4	176.3	122.0
22675.8	75°	10915.9	711.9	135.6	105.1	78.0	71.2	122.0	152.6	122.0	74.6
10061.6	77.5°	4176.5	298.3	74.6	47.5	40.7	33.9	67.8	91.5	50.9	17.0
1949.3	80°	803.4	125.4	37.3	23.7	20.3	13.6	10.2	6.8	0.0	0.0
345.8	82.5°	139.0	40.7	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
67.8	85°	47.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.7	87.5°	17.0	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>
6295.3
3820.5
2237.4
1820.4
1681.4
1552.6
1430.6
1318.7
1210.2
1105.1
1000.1
915.3
844.1
789.9
739.0
698.3
644.1
600.0
569.5
539.0
518.7
501.7
481.4
457.7
417.0
339.0
237.3
200.0
159.3
115.3
64.4
13.6
0.0
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0.0
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