

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: P948377

Luminaire Tested: **GALN-SB3B-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9431 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

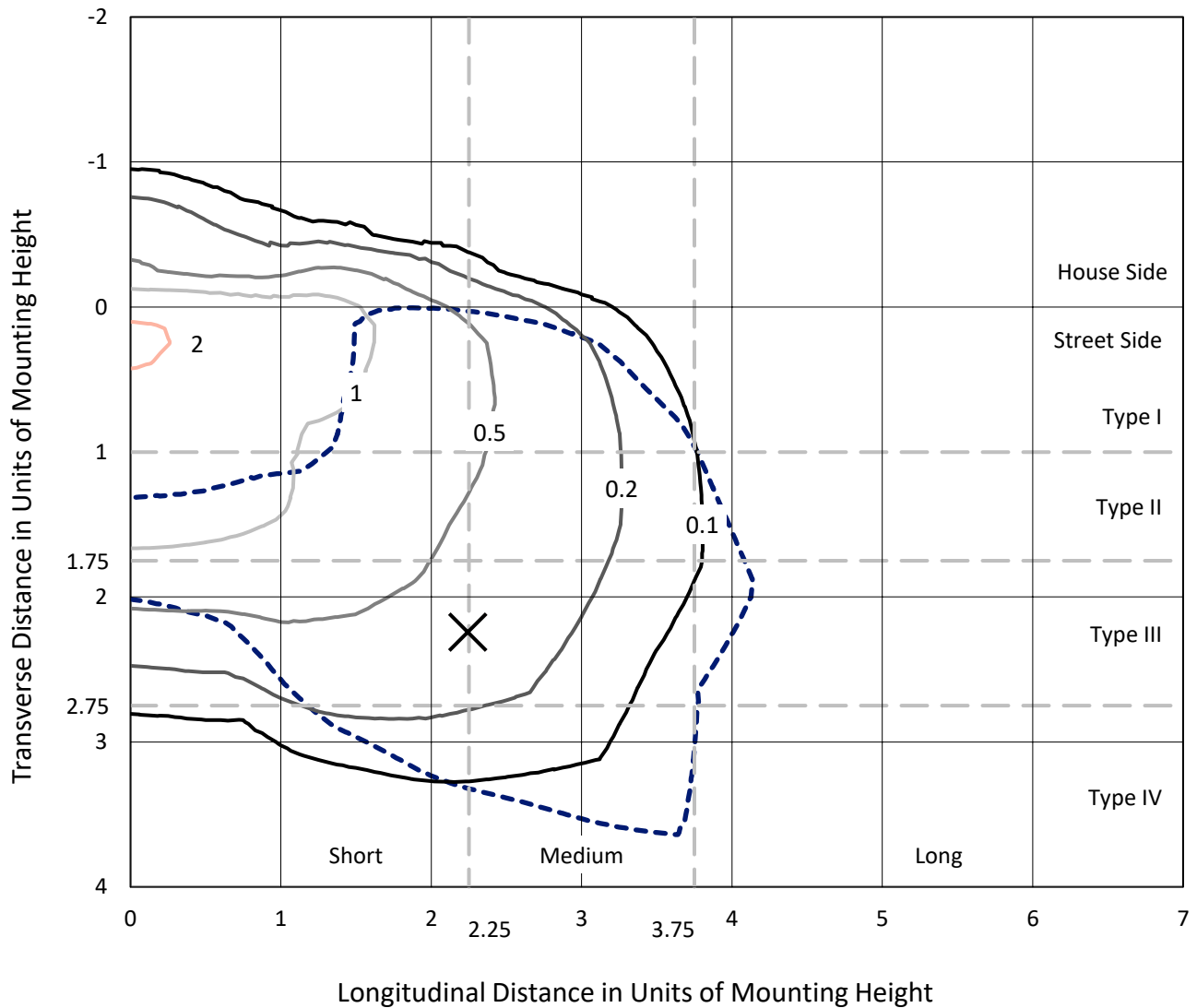
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

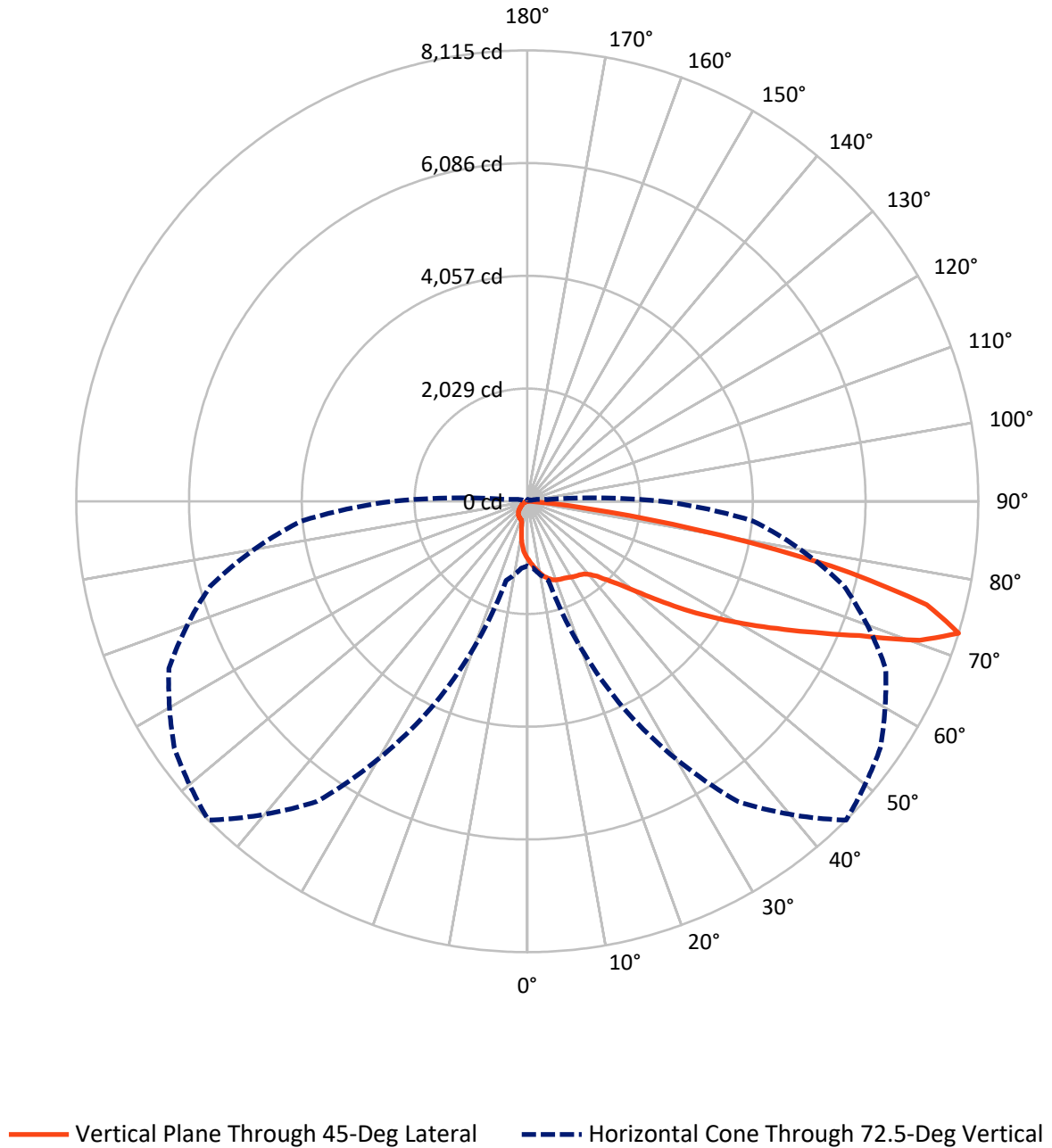
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	990.9	0.0	990.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8440.1	0.0	8440.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	9431.0	0.0	9431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.0
10°-20°	284.5	3.0
20°-30°	467.2	5.0
30°-40°	662.6	7.0
40°-50°	1095.2	11.6
50°-60°	1967.4	20.9
60°-70°	2731.9	29.0
70°-80°	1981.6	21.0
80°-90°	143.3	1.5
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°	9431.0	100.0
0°-180°	9431.0	100.0

Coefficient of Utilization



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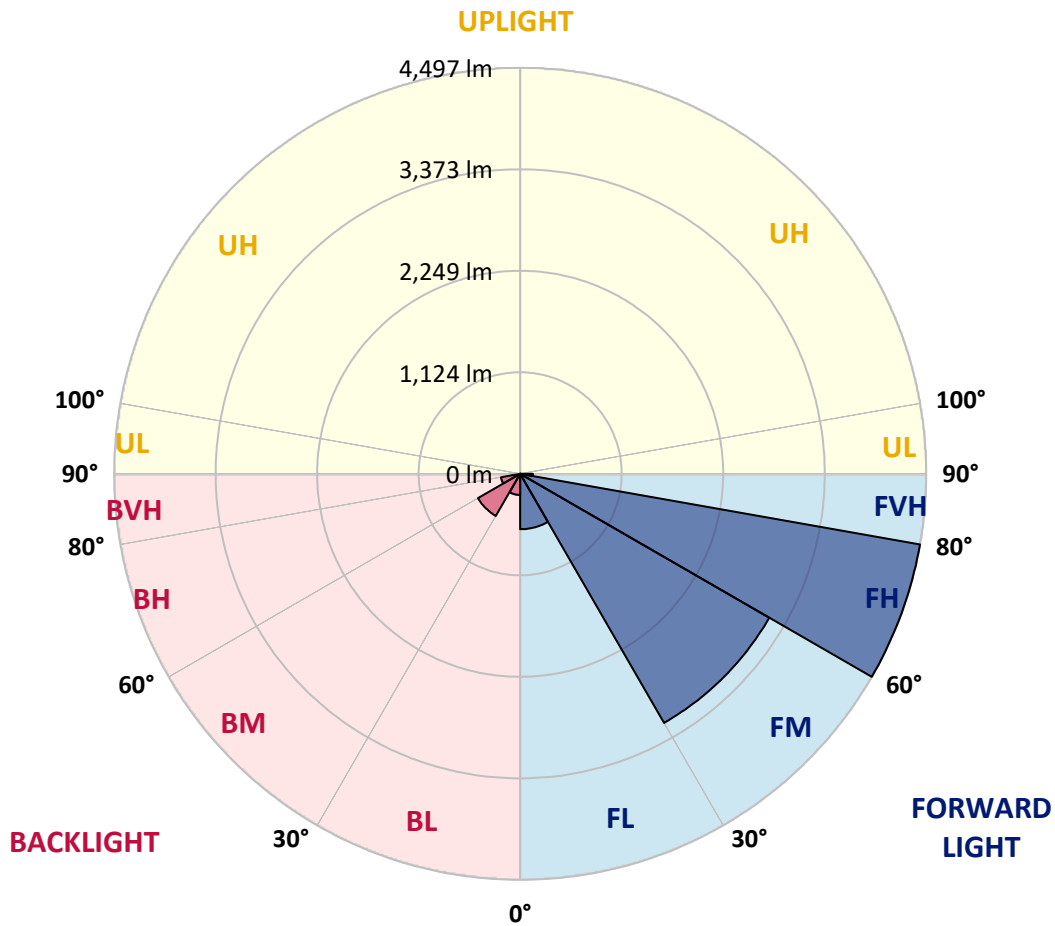
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.3	6.5			
FM (30°-60°)	3186.3	33.8			
FH (60°-80°)	4497.4	47.7			G2/5000
FVH (80°-90°)	142.1	1.5			G2/225
BL (0°-30°)	234.7	2.5	B1/500		
BM (30°-60°)	538.9	5.7	B1/1000		
BH (60°-80°)	216.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1128.5	1130.4	1129.1	1121.4	1108.5	1101.4	1097.6	1084.7	1076.3	1061.5
5°	1232.1	1239.8	1235.3	1219.9	1195.4	1178.0	1172.9	1146.5	1122.7	1095.0
7.5°	1342.2	1346.0	1337.7	1317.7	1284.9	1255.3	1250.8	1214.1	1176.1	1133.6
10°	1437.4	1442.0	1429.1	1400.1	1362.8	1326.1	1319.6	1279.1	1234.0	1181.9
12.5°	1517.3	1521.8	1505.0	1470.3	1429.1	1391.1	1384.7	1342.2	1292.6	1234.7
15°	1577.8	1586.1	1563.6	1526.3	1481.9	1443.9	1440.7	1398.8	1350.5	1286.2
17.5°	1613.2	1621.6	1600.3	1555.3	1517.3	1485.1	1481.2	1446.5	1401.4	1339.6
20°	1619.0	1626.7	1604.2	1564.9	1533.4	1507.6	1505.7	1480.6	1447.7	1388.5
22.5°	1601.6	1611.3	1590.7	1559.1	1537.2	1523.7	1521.1	1507.0	1488.3	1438.1
25°	1583.6	1591.3	1575.9	1548.2	1536.6	1535.3	1537.2	1534.7	1530.8	1488.3
27.5°	1582.3	1590.7	1573.3	1546.9	1540.4	1554.0	1555.9	1568.1	1571.3	1534.0
30°	1593.2	1599.0	1582.3	1554.6	1551.4	1582.3	1582.9	1604.8	1610.0	1572.6
32.5°	1617.0	1623.5	1606.7	1566.2	1561.7	1604.8	1606.7	1635.7	1644.1	1613.8
35°	1673.1	1680.8	1661.5	1598.4	1582.3	1626.1	1631.9	1666.0	1682.7	1657.6
37.5°	1812.7	1790.2	1763.8	1663.4	1629.3	1659.5	1669.2	1709.1	1738.7	1709.7
40°	2159.7	2088.9	2006.5	1774.1	1711.7	1731.0	1738.7	1778.6	1819.2	1790.9
42.5°	2680.5	2596.8	2464.2	2029.0	1835.9	1845.6	1851.4	1886.1	1943.4	1920.9
45°	3144.6	3114.4	2979.2	2464.2	2068.3	2020.7	2027.7	2045.8	2130.1	2121.7
47.5°	3501.2	3483.9	3379.6	2963.7	2461.0	2235.0	2255.0	2263.4	2385.0	2414.6
50°	3775.5	3769.0	3675.7	3407.9	2974.0	2551.1	2558.2	2540.2	2722.3	2795.7
52.5°	4034.3	4056.1	3987.3	3820.5	3521.8	2965.0	2963.7	2878.8	3124.7	3235.4
55°	4267.9	4275.7	4282.7	4241.5	4072.9	3436.2	3424.0	3285.0	3591.4	3706.0
57.5°	4487.4	4490.7	4553.7	4638.1	4646.4	3942.2	3919.7	3752.9	4101.2	4183.0
60°	4634.9	4649.7	4782.9	5017.2	5119.6	4464.3	4452.0	4282.1	4620.0	4658.0
62.5°	4422.4	4512.5	4848.6	5313.3	5566.3	5043.0	5037.2	4877.5	5165.9	5135.0
65°	3579.8	3732.3	4323.3	5513.5	6004.7	5689.3	5697.7	5527.7	5726.6	5626.2
67.5°	2504.1	2665.0	3364.1	5529.6	6494.6	6448.2	6496.5	6230.0	6322.1	6096.8
70°	1731.6	1814.7	2269.8	5183.3	6876.3	7493.7	7492.4	7092.6	6914.3	6311.1
72.5°	1164.5	1207.6	1474.1	4112.1	6595.7	8114.9	8077.5	7751.8	7113.9	5902.4
75°	491.2	522.7	682.4	2311.0	5218.1	7424.1	7323.1	6850.6	6320.8	4647.7
77.5°	155.8	169.3	269.1	827.2	2874.3	5580.5	5473.6	4278.2	4236.4	2331.6
80°	74.0	86.3	151.3	332.2	1131.0	3035.2	3020.4	1940.8	1822.4	629.6
82.5°	32.2	38.0	83.7	177.7	506.0	1082.8	1104.6	660.5	546.5	238.8
85°	10.3	13.5	38.6	81.8	213.7	269.1	265.9	157.1	220.2	130.0
87.5°	0.0	0.0	12.9	18.7	21.9	15.4	17.4	13.5	61.2	36.0
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°
1033.2	0°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
1046.1	2.5°	1038.3	1028.0	1010.0	993.3	978.5	963.7	954.7	941.8	940.5	940.5
1062.8	5°	1045.4	1028.7	996.5	962.4	923.1	885.8	848.4	812.4	800.8	792.4
1089.8	7.5°	1066.0	1039.6	988.8	923.8	849.1	767.3	710.0	648.2	624.4	611.5
1125.9	10°	1095.6	1059.6	982.3	868.4	747.4	636.0	554.3	487.3	461.6	450.6
1165.2	12.5°	1128.5	1084.0	970.7	799.5	636.0	502.8	422.9	392.0	388.2	388.2
1212.1	15°	1167.7	1113.7	950.8	718.4	519.5	397.8	369.5	370.8	374.7	377.2
1257.8	17.5°	1208.3	1145.2	919.2	627.6	416.5	357.9	358.6	360.5	363.7	366.3
1307.4	20°	1252.1	1176.7	877.4	531.1	357.3	346.3	348.3	350.2	352.8	354.1
1353.8	22.5°	1299.0	1206.3	827.8	436.4	337.3	336.7	337.3	339.2	342.5	342.5
1407.8	25°	1349.3	1239.2	771.2	367.6	327.0	327.0	328.3	329.6	332.2	332.2
1460.0	27.5°	1400.8	1269.4	711.3	331.5	318.0	317.4	317.4	319.3	320.6	321.2
1511.5	30°	1457.4	1304.8	651.5	323.8	310.9	307.7	305.8	307.1	308.3	309.0
1565.6	32.5°	1515.3	1339.0	598.0	327.0	303.8	298.0	291.6	290.3	290.3	292.9
1621.6	35°	1579.7	1376.3	556.8	338.0	300.0	283.9	273.6	267.8	268.4	272.3
1688.5	37.5°	1657.0	1421.4	526.6	347.6	297.4	267.8	251.1	244.0	239.5	244.0
1780.6	40°	1758.0	1487.7	504.7	355.3	294.2	249.1	226.6	215.0	206.6	209.2
1923.5	42.5°	1906.7	1591.9	496.3	356.0	287.1	227.2	201.5	186.0	173.8	174.5
2138.5	45°	2115.3	1756.7	539.4	347.6	271.7	203.4	175.1	154.5	146.8	144.8
2459.7	47.5°	2401.1	1996.8	639.2	330.2	249.1	180.2	149.3	132.0	126.2	123.0
2881.3	50°	2784.1	2305.2	749.9	310.9	226.6	158.4	128.1	117.2	113.3	110.1
3381.5	52.5°	3228.3	2618.0	840.7	291.6	204.1	139.0	114.6	108.1	104.9	102.4
3864.3	55°	3635.8	2833.7	835.6	271.0	182.2	123.6	104.9	101.1	97.2	94.6
4280.2	57.5°	3889.4	2864.0	688.8	248.5	157.1	111.4	95.9	93.3	88.8	85.6
4640.0	60°	4005.9	2691.4	482.8	218.9	132.0	99.8	86.3	85.0	79.2	74.7
4980.5	62.5°	4027.2	2370.9	321.9	182.2	110.1	88.8	76.6	74.7	66.9	59.2
5257.3	65°	3940.9	1912.5	222.7	142.3	94.0	77.2	65.7	61.8	53.4	45.7
5323.0	67.5°	3668.0	1342.8	155.1	102.4	79.8	61.2	52.1	50.9	44.4	38.0
4988.3	70°	3167.8	765.4	103.6	76.6	63.1	41.8	41.2	42.5	36.0	30.9
4075.5	72.5°	2428.8	350.2	64.4	56.0	43.1	28.3	32.8	33.5	27.7	23.2
2542.7	75°	1429.7	150.0	40.6	36.0	21.9	18.7	23.8	24.5	18.7	14.8
929.5	77.5°	486.7	56.6	25.7	21.2	10.9	10.3	15.4	15.4	10.3	5.8
186.7	80°	110.7	21.2	12.9	8.4	5.1	4.5	5.1	4.5	2.6	0.6
57.3	82.5°	31.5	8.4	5.1	3.2	1.9	1.9	0.6	0.0	0.0	0.0
20.0	85°	9.0	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
7.1	87.5°	3.9	0.6	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

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180°
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1033.2
943.7
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