

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: P939827

Luminaire Tested: **GALN-SB2C-835-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-835-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13901 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

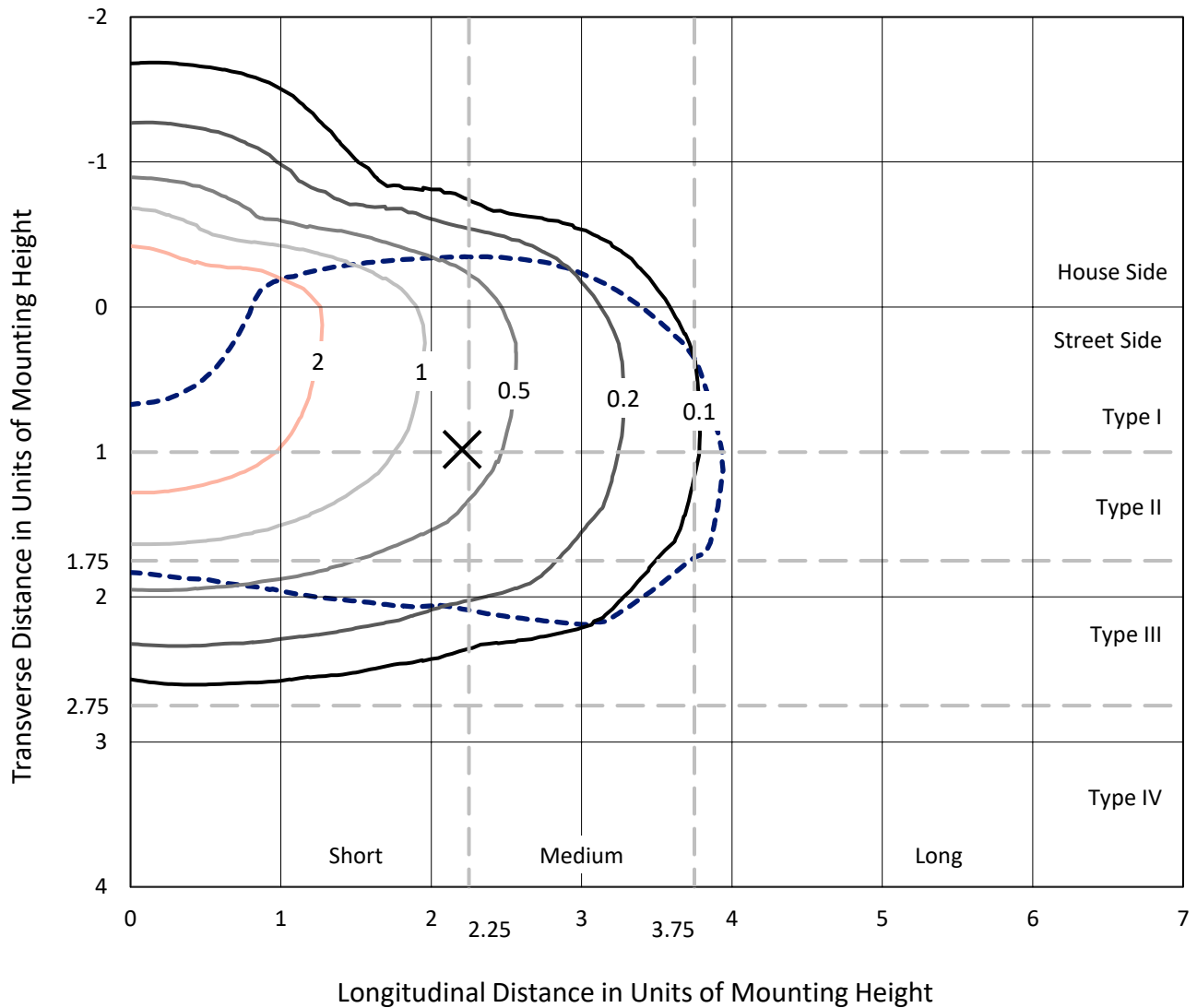
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939827
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Iso-Footcandle Lines of Horizontal Illumination

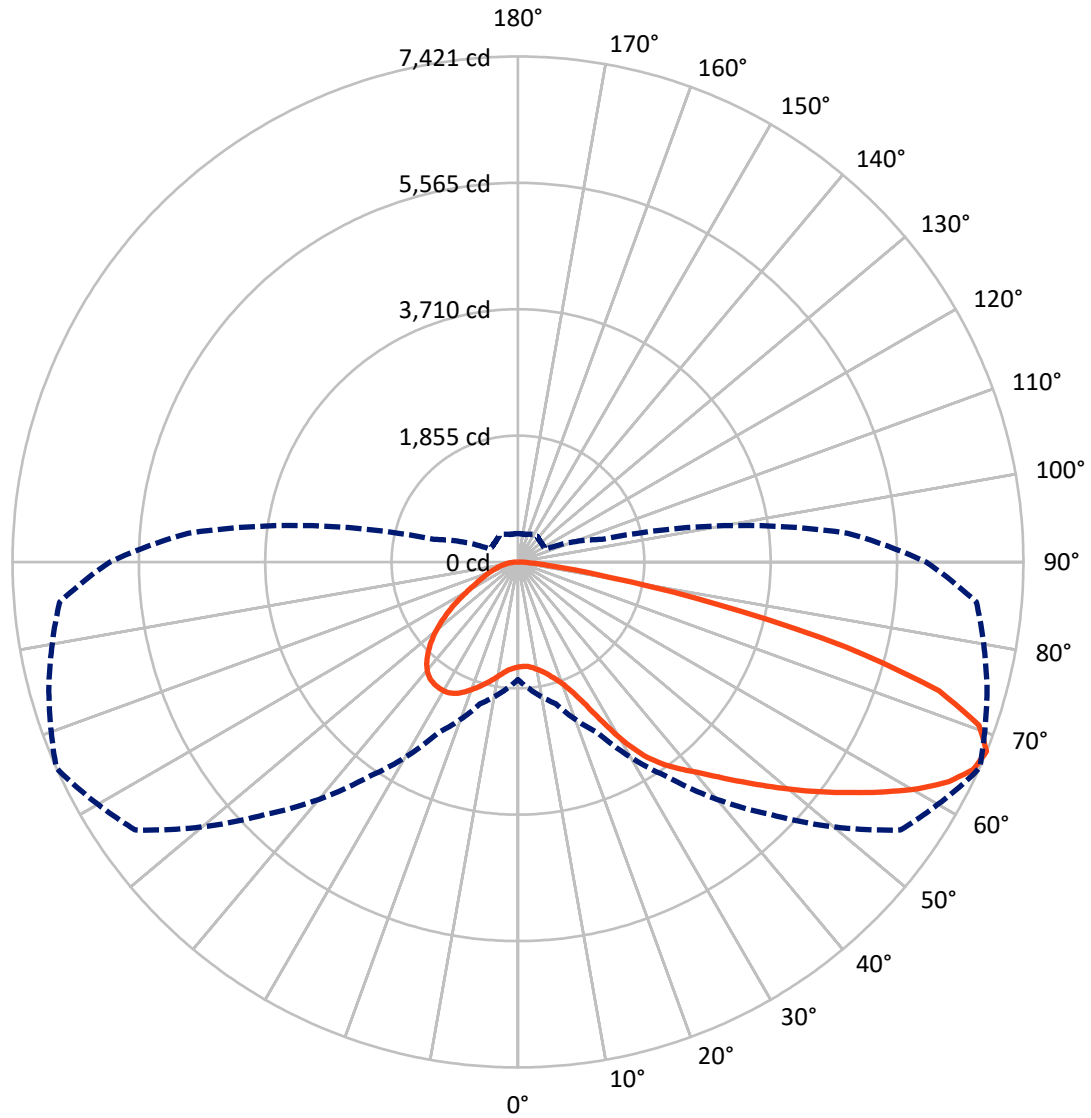
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

REPORT NUMBER: P939827
CATALOG NUMBER: GALN-SB2C-835-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3456.4	0.0	3456.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10444.5	0.0	10444.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	13901.0	0.0	13901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	1.1
10°-20°	505.0	3.6
20°-30°	973.4	7.0
30°-40°	1706.8	12.3
40°-50°	2537.5	18.3
50°-60°	3216.5	23.1
60°-70°	3147.2	22.6
70°-80°	1501.3	10.8
80°-90°	160.4	1.2
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°	13901.0	100.0
0°-180°	13901.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939827

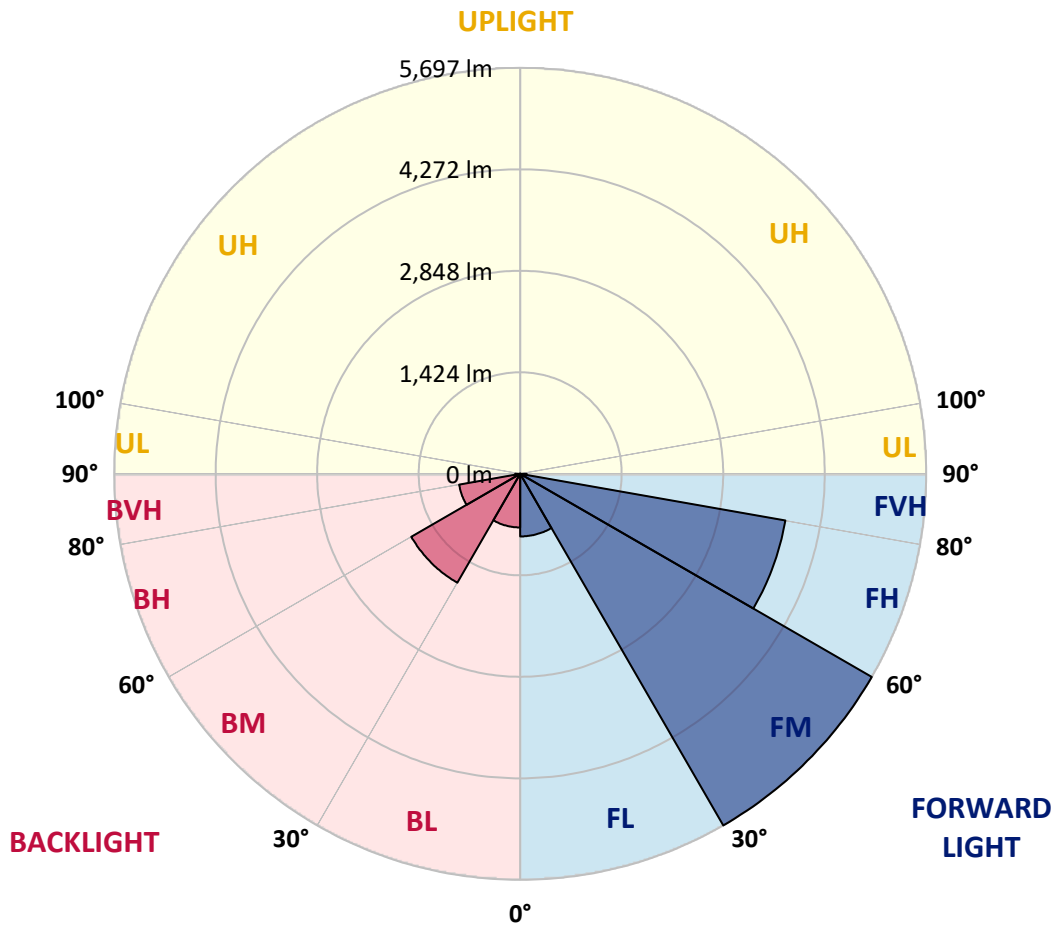
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.4	6.3			
FM (30°-60°)	5696.5	41.0			
FH (60°-80°)	3778.7	27.2			G2/5000
FVH (80°-90°)	91.0	0.7			G1/100
BL (0°-30°)	752.9	5.4	B2/1000		
BM (30°-60°)	1764.2	12.7	B2/2500		
BH (60°-80°)	869.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	69.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P939827
 CATALOG NUMBER: GALN-SB2C-835-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8
2.5°	1525.7	1534.5	1532.3	1528.7	1527.9	1529.4	1531.6	1533.8	1533.0	1536.7
5°	1521.4	1530.1	1529.4	1529.4	1532.3	1538.2	1541.8	1545.5	1541.8	1546.2
7.5°	1524.3	1530.8	1533.8	1536.7	1544.0	1555.0	1563.7	1571.7	1567.4	1572.5
10°	1561.5	1566.6	1569.6	1569.6	1574.7	1587.1	1595.9	1610.5	1606.8	1614.8
12.5°	1629.4	1634.6	1634.6	1631.6	1635.3	1643.3	1646.2	1662.3	1655.7	1668.9
15°	1712.7	1722.9	1714.9	1709.8	1711.2	1719.3	1718.6	1731.0	1724.4	1735.4
17.5°	1804.7	1817.9	1804.7	1804.0	1801.1	1809.8	1810.6	1821.5	1809.8	1817.9
20°	1913.6	1931.8	1920.9	1924.5	1917.9	1921.6	1925.2	1941.3	1923.1	1928.9
22.5°	2066.9	2088.8	2077.2	2091.0	2086.7	2083.7	2083.0	2111.5	2083.0	2085.2
25°	2290.4	2316.7	2296.3	2315.3	2315.3	2324.8	2335.7	2372.2	2324.8	2310.9
27.5°	2620.6	2646.8	2606.7	2618.4	2614.7	2638.1	2626.4	2717.0	2665.8	2643.2
30°	3017.9	3064.6	2988.7	2985.7	2982.1	3019.3	3036.1	3096.0	3044.2	3021.5
32.5°	3447.3	3496.3	3405.7	3379.4	3365.5	3388.2	3374.3	3422.5	3386.7	3351.7
35°	3901.6	3949.8	3863.6	3812.5	3757.0	3709.5	3659.9	3672.3	3638.7	3585.4
37.5°	4331.1	4419.5	4328.2	4273.4	4171.1	4078.4	3939.6	3881.9	3850.5	3801.6
40°	4768.6	4819.0	4749.6	4702.8	4591.8	4446.5	4224.4	4102.5	4060.1	4012.6
42.5°	5090.7	5138.9	5101.6	5069.5	4982.6	4813.8	4526.8	4374.2	4312.8	4259.5
45°	5346.3	5382.1	5358.7	5370.4	5333.1	5169.5	4840.1	4665.6	4602.0	4537.0
47.5°	5449.3	5487.2	5524.5	5593.9	5657.4	5536.9	5176.8	4981.1	4913.9	4847.4
50°	5437.6	5476.3	5584.4	5731.9	5929.1	5888.9	5531.8	5317.1	5255.0	5179.0
52.5°	5344.1	5387.9	5526.7	5772.1	6086.1	6152.6	5893.3	5664.0	5605.6	5515.0
55°	5098.7	5125.0	5333.1	5680.8	6123.4	6336.7	6247.6	6033.6	5975.1	5848.8
57.5°	4643.7	4681.7	4984.8	5434.7	6029.9	6461.6	6558.7	6422.1	6365.9	6184.0
60°	4049.9	4110.5	4457.4	5021.3	5791.8	6460.8	6841.3	6804.1	6757.4	6514.1
62.5°	3377.9	3448.1	3781.8	4437.0	5375.5	6277.5	7018.1	7124.0	7099.9	6818.7
65°	2594.3	2642.5	2974.8	3681.0	4727.7	5883.8	7038.5	7342.4	7346.8	7050.2
67.5°	1727.3	1866.1	2154.6	2762.2	3860.0	5240.4	6858.9	7378.2	7420.5	7129.8
70°	842.8	1025.4	1308.1	1795.2	2762.2	4253.7	6389.2	7084.6	7178.8	6897.6
72.5°	349.8	409.0	563.1	885.9	1585.6	2870.3	5445.6	6288.5	6463.0	6111.7
75°	235.9	255.6	322.1	454.3	722.3	1415.5	3927.2	4689.0	4970.1	4615.9
77.5°	181.9	194.3	234.4	317.7	429.5	535.4	2102.0	2825.8	2971.1	2750.6
80°	143.2	152.6	175.3	231.5	304.6	286.3	716.5	1280.3	1364.3	1144.5
82.5°	124.2	127.8	125.6	157.0	202.3	167.3	235.2	472.5	521.5	378.3
85°	89.8	100.1	104.4	97.1	107.4	84.7	96.4	167.3	184.1	164.3
87.5°	36.5	54.0	66.5	62.8	39.4	24.1	29.9	48.9	56.2	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939827
 CATALOG NUMBER: GALN-SB2C-835-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1541.8	0°	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8
1542.5	2.5°	1543.3	1548.4	1552.0	1556.4	1559.3	1563.7	1572.5	1577.6	1578.3	1582.0
1554.2	5°	1557.1	1564.4	1572.5	1584.2	1597.3	1608.3	1625.1	1636.8	1641.1	1644.8
1582.7	7.5°	1587.1	1597.3	1611.9	1632.4	1651.4	1666.0	1686.4	1700.3	1714.2	1719.3
1628.0	10°	1631.6	1646.2	1667.4	1695.2	1715.6	1734.6	1755.8	1767.5	1781.4	1787.2
1682.0	12.5°	1687.1	1702.5	1730.2	1768.9	1787.9	1801.1	1808.4	1805.5	1808.4	1813.5
1747.0	15°	1750.7	1767.5	1798.9	1840.5	1853.7	1842.0	1825.9	1811.3	1809.1	1810.6
1825.9	17.5°	1825.9	1838.3	1874.9	1909.9	1900.4	1852.2	1817.2	1793.8	1782.1	1778.4
1926.7	20°	1931.1	1931.1	1961.0	1982.9	1919.4	1837.6	1782.8	1744.8	1720.7	1710.5
2064.0	22.5°	2058.9	2047.2	2066.2	2050.9	1915.8	1796.7	1720.7	1655.0	1618.5	1603.9
2256.1	25°	2221.0	2207.2	2202.1	2107.1	1889.5	1731.7	1608.3	1528.7	1496.5	1488.5
2532.9	27.5°	2465.7	2430.7	2364.2	2137.8	1841.3	1629.4	1476.8	1403.0	1384.8	1385.5
2888.6	30°	2791.5	2721.3	2558.5	2142.9	1762.4	1484.8	1342.4	1289.8	1281.1	1284.7
3187.3	32.5°	3093.1	3026.6	2757.1	2119.5	1641.1	1343.1	1221.9	1186.8	1173.7	1178.1
3415.2	35°	3329.7	3311.5	2941.2	2086.7	1492.1	1210.2	1113.8	1083.9	1058.3	1052.5
3629.9	37.5°	3553.2	3545.9	3079.2	2040.6	1344.6	1116.0	1026.9	987.5	950.2	929.8
3867.3	40°	3798.6	3791.3	3169.8	1969.8	1213.9	1034.2	948.7	896.9	850.9	813.6
4136.1	42.5°	4074.7	4031.6	3212.9	1868.3	1102.9	964.8	885.2	815.1	754.5	720.1
4439.9	45°	4376.4	4279.2	3212.2	1739.0	1009.4	901.3	817.3	718.0	661.7	629.6
4751.8	47.5°	4696.3	4515.9	3172.7	1595.9	918.8	831.2	712.1	636.1	598.9	579.2
5090.7	50°	5026.4	4737.2	3105.5	1431.5	826.0	751.5	646.4	594.5	566.0	547.8
5426.6	52.5°	5336.8	4938.0	3024.4	1245.3	731.8	674.1	617.2	577.0	547.0	526.6
5752.4	55°	5625.3	5111.1	2909.8	1054.6	655.1	622.3	603.3	569.7	535.4	511.3
6083.2	57.5°	5881.6	5223.6	2711.9	875.7	600.4	586.5	588.7	557.3	517.8	497.4
6409.0	60°	6094.9	5306.1	2419.0	709.9	555.8	551.4	566.0	533.9	487.9	464.5
6684.3	62.5°	6222.7	5304.7	2059.6	581.4	517.8	519.3	536.1	504.7	457.9	436.0
6828.2	65°	6211.8	5174.6	1665.2	497.4	481.3	482.8	504.7	472.5	433.1	420.0
6755.9	67.5°	5991.9	4857.7	1277.4	442.6	441.1	447.7	473.3	450.6	417.8	416.3
6325.0	70°	5396.7	4199.6	920.3	398.8	399.5	409.0	442.6	436.8	409.7	412.7
5317.8	72.5°	4327.4	3201.9	617.9	352.8	353.5	368.8	413.4	425.8	401.7	440.4
3773.1	75°	2882.0	1996.8	397.3	303.8	304.6	324.3	387.8	404.6	379.8	439.0
1963.2	77.5°	1384.8	897.6	287.8	255.6	255.6	273.9	335.2	362.3	323.6	341.1
631.0	80°	478.4	337.4	226.4	206.0	201.6	214.0	282.7	314.1	279.0	257.1
206.0	82.5°	188.4	175.3	181.9	160.0	145.3	153.4	219.8	259.3	205.2	185.5
116.1	85°	108.1	113.9	128.5	105.9	84.0	94.2	161.4	186.2	154.8	136.6
38.0	87.5°	29.2	40.2	59.2	54.8	38.0	40.2	76.7	103.0	89.1	68.7
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°
1541.8
1581.2
1644.1
1720.0
1790.1
1815.0
1815.7
1783.6
1708.3
1601.7
1489.9
1387.7
1297.1
1183.9
1056.8
930.5
817.3
722.3
628.1
574.8
541.2
517.8
501.8
484.2
454.3
429.5
419.2
418.5
411.9
446.3
442.6
312.6
241.0
184.8
139.5
70.8
0.0

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