

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: P941728

Luminaire Tested: **GALN-SB5B-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

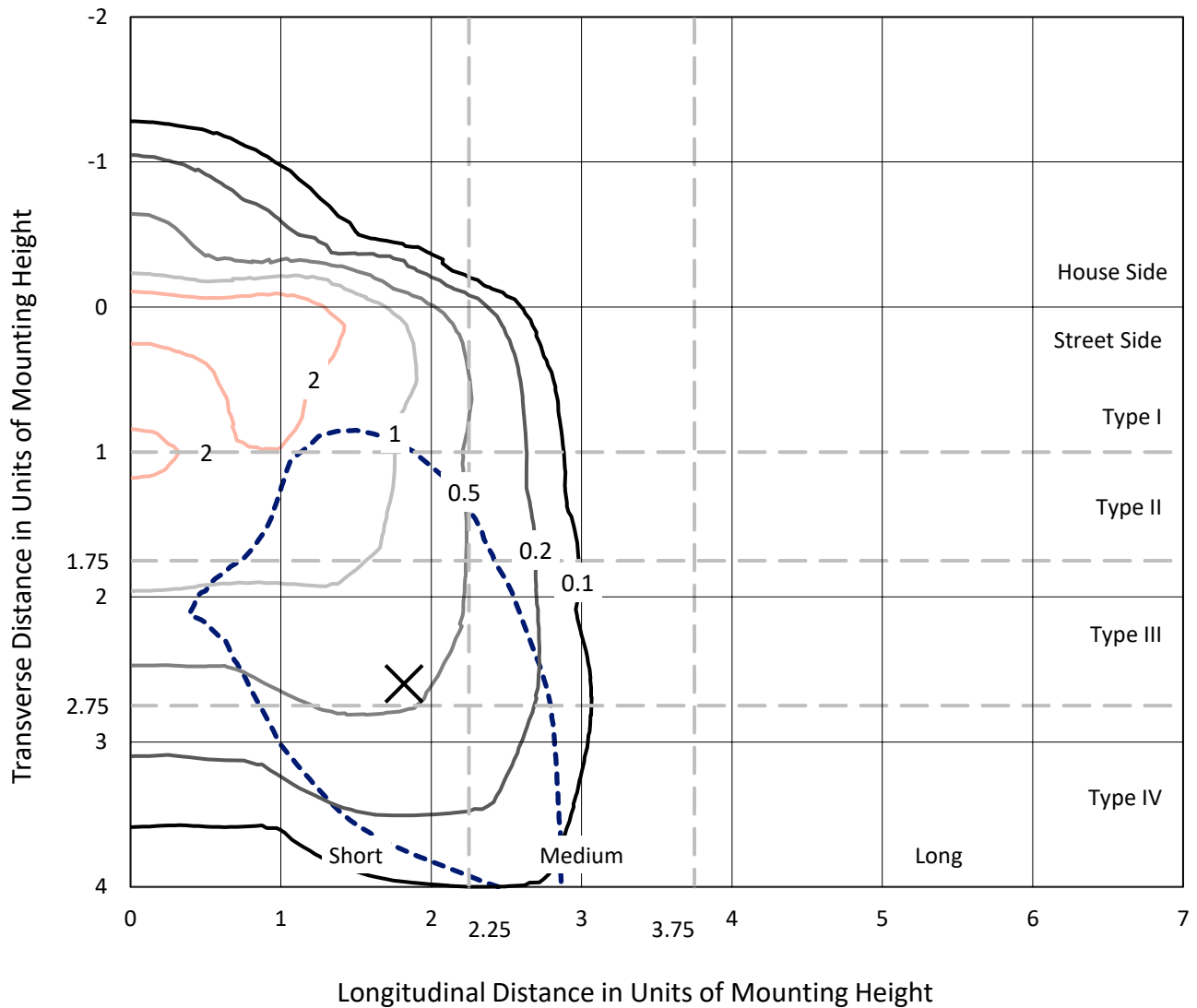
Lumens per Lamp: N/A  
Luminaire Lumens: 13109 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

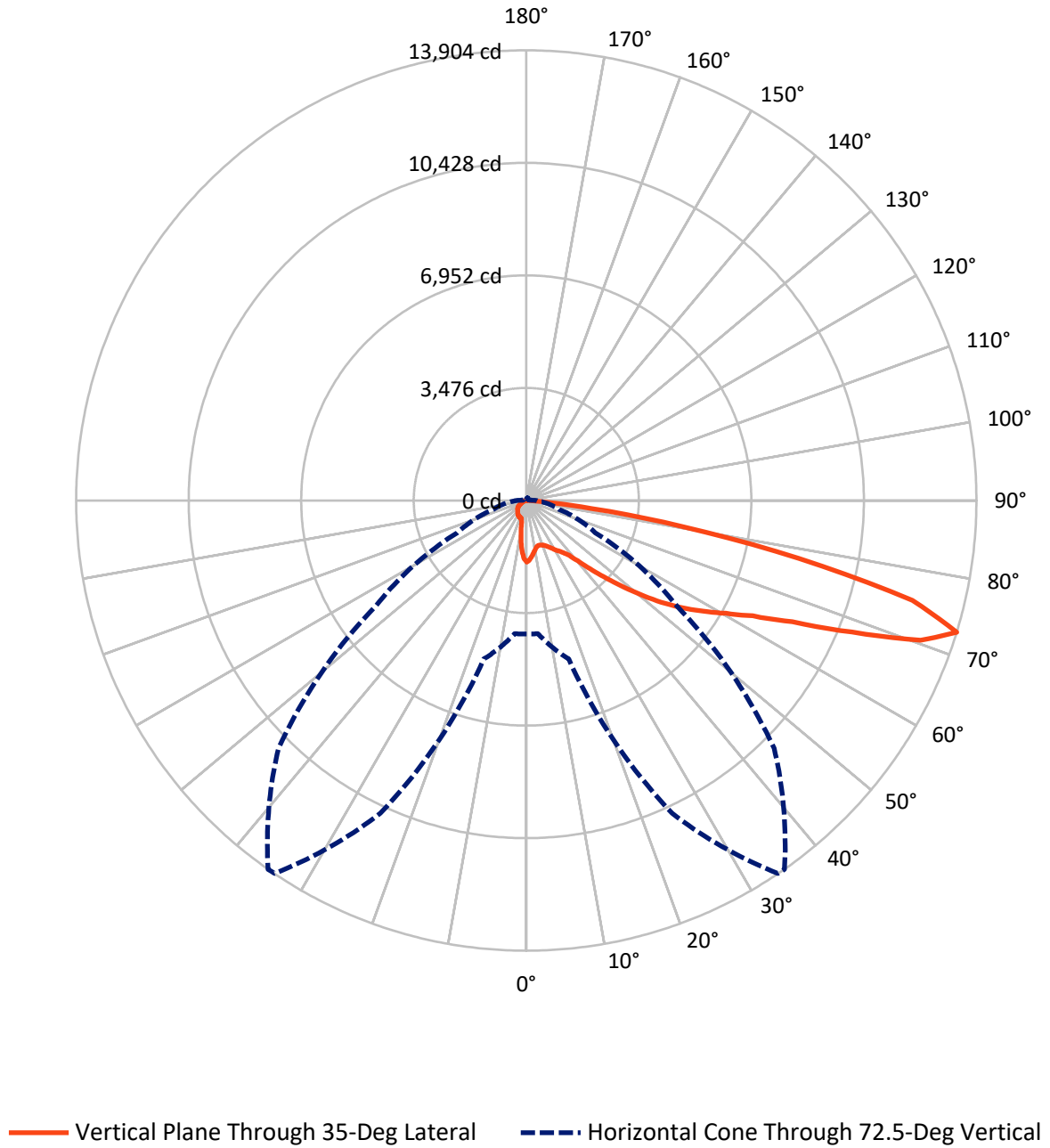
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1475.4	0.0	1475.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	11633.6	0.0	11633.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	13109.0	0.0	13109.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.1	1.2
10°-20°	365.2	2.8
20°-30°	593.3	4.5
30°-40°	989.9	7.6
40°-50°	1873.0	14.3
50°-60°	2976.2	22.7
60°-70°	3681.7	28.1
70°-80°	2288.6	17.5
80°-90°	185.0	1.4
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°	13109.0	100.0
0°-180°	13109.0	100.0

**Coefficient of Utilization**



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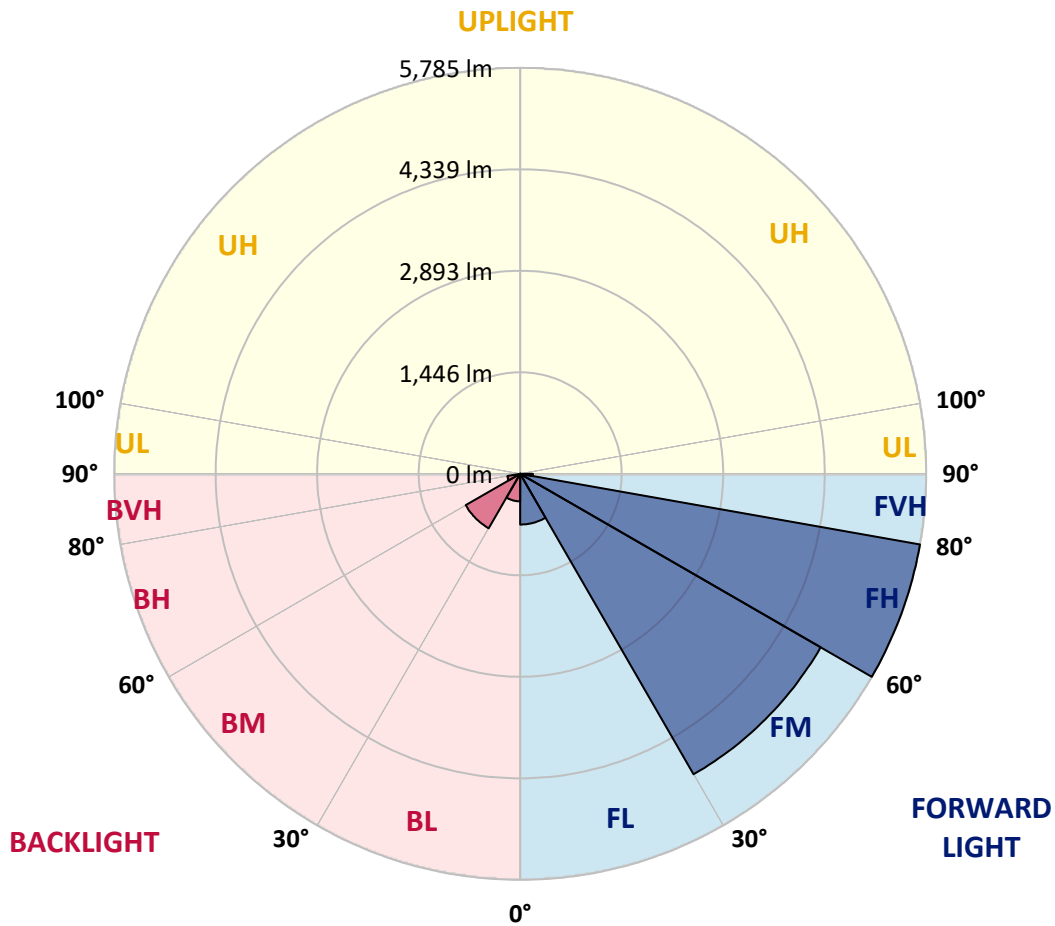
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.6	5.5			
FM (30°-60°)	4943.4	37.7			
FH (60°-80°)	5785.2	44.1			G3/7500
FVH (80°-90°)	182.4	1.4			G2/225
BL (0°-30°)	392.0	3.0	B1/500		
BM (30°-60°)	895.7	6.8	B1/1000		
BH (60°-80°)	185.1	1.4	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	1815.4	1830.8	1833.7	1838.5	1838.5	1844.2	1853.8	1867.3	1889.4	1900.9
5°	1673.2	1684.8	1699.2	1710.7	1732.8	1735.7	1773.1	1809.6	1860.6	1899.0
7.5°	1530.1	1543.6	1562.8	1590.6	1619.5	1628.1	1684.8	1746.2	1826.9	1899.0
10°	1429.3	1430.2	1447.5	1475.4	1521.5	1532.0	1601.2	1688.6	1789.5	1887.4
12.5°	1372.6	1379.3	1387.0	1408.1	1452.3	1459.0	1533.0	1635.8	1752.0	1880.7
15°	1372.6	1377.4	1382.2	1392.8	1428.3	1434.1	1499.4	1602.2	1732.8	1883.6
17.5°	1387.0	1394.7	1390.9	1403.3	1440.8	1444.6	1502.3	1592.6	1731.8	1901.9
20°	1421.6	1427.4	1419.7	1427.4	1464.8	1472.5	1532.0	1610.8	1748.2	1933.6
22.5°	1476.3	1479.2	1461.0	1466.7	1505.2	1514.8	1583.9	1662.7	1787.6	1984.5
25°	1545.5	1551.3	1523.4	1530.1	1566.6	1578.2	1657.9	1740.5	1850.0	2054.6
27.5°	1625.2	1628.1	1604.1	1603.1	1650.2	1666.5	1747.2	1836.5	1933.6	2142.9
30°	1716.5	1725.1	1702.1	1698.2	1757.8	1771.2	1850.9	1954.7	2056.5	2275.5
32.5°	1788.5	1795.2	1781.8	1791.4	1851.9	1862.5	1976.8	2121.8	2249.6	2463.8
35°	1892.2	1896.1	1865.4	1882.6	1951.8	1978.7	2148.7	2356.2	2492.6	2700.1
37.5°	2267.8	2267.8	2137.2	2051.7	2118.0	2142.0	2384.0	2651.1	2792.3	3017.0
40°	2787.5	2778.8	2587.7	2412.9	2404.2	2451.3	2719.3	3022.8	3179.4	3397.4
42.5°	3341.7	3328.2	3067.9	2895.0	2866.2	2882.6	3106.4	3481.0	3640.4	3861.3
45°	3833.5	3829.6	3591.4	3359.0	3307.1	3359.0	3589.5	4016.9	4131.3	4363.7
47.5°	4245.6	4245.6	4071.7	3919.9	3893.0	3923.8	4243.6	4611.5	4601.0	4898.7
50°	4720.1	4716.2	4551.0	4485.7	4513.5	4556.8	4996.7	5237.8	5087.0	5424.1
52.5°	5052.4	5075.5	5018.8	5008.2	5150.4	5225.3	5761.3	5850.6	5522.1	5922.6
55°	5315.6	5342.5	5407.8	5481.8	5755.5	5853.5	6501.8	6431.7	5886.1	6354.9
57.5°	5688.3	5649.9	5750.7	5896.7	6339.5	6457.7	7219.4	6980.2	6179.1	6705.5
60°	6140.7	6146.4	6163.7	6348.2	6922.6	7074.3	7926.3	7498.9	6367.4	6920.6
62.5°	6684.3	6693.0	6728.5	7011.9	7705.4	7848.5	8679.4	7923.4	6453.8	6860.1
65°	6646.9	6683.4	7080.1	8049.3	8895.5	9036.7	9558.3	8221.2	6323.2	6306.9
67.5°	6055.2	6114.8	6778.5	9288.4	10689.8	10847.3	10620.6	8279.8	5759.4	4904.5
70°	5279.1	5300.2	6098.4	10402.6	12767.4	12926.8	11571.5	7635.3	4370.4	2735.6
72.5°	4122.6	4127.4	5063.9	10661.0	13895.1	13903.7	10825.2	5668.1	2350.4	1050.8
75°	2945.0	2916.2	3391.6	8645.8	12224.7	12322.7	8115.5	2658.8	898.1	496.6
77.5°	1579.1	1610.8	1919.1	5127.3	8445.0	8612.1	4428.1	766.5	457.2	338.1
80°	488.0	514.8	786.7	2347.5	4783.5	4884.3	1641.6	341.0	318.9	241.1
82.5°	153.7	159.4	366.9	986.5	1985.4	2031.5	475.5	193.1	218.0	159.4
85°	44.2	45.1	163.3	367.9	490.8	500.4	133.5	74.9	124.9	98.9
87.5°	4.8	15.4	61.5	61.5	43.2	42.3	14.4	16.3	35.5	12.5
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°
1899.9	0°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
1908.6	2.5°	1903.8	1904.7	1892.2	1871.1	1848.1	1828.9	1804.8	1785.6	1772.2	1768.3
1925.9	5°	1917.2	1910.5	1875.0	1810.6	1733.8	1667.5	1593.5	1534.9	1496.5	1480.2
1944.1	7.5°	1937.4	1918.2	1840.4	1713.6	1566.6	1436.0	1303.4	1200.7	1135.3	1102.7
1961.4	10°	1954.7	1916.3	1782.7	1573.4	1348.6	1150.7	972.1	848.2	779.0	746.3
1981.6	12.5°	1971.0	1915.3	1707.8	1407.2	1102.7	860.6	694.5	633.0	613.8	607.1
2014.2	15°	2001.8	1918.2	1613.7	1217.0	857.8	650.3	589.8	588.8	592.6	590.7
2064.2	17.5°	2044.0	1921.1	1507.1	1015.3	661.8	573.4	570.6	579.2	585.0	582.1
2126.6	20°	2098.8	1932.6	1393.7	815.5	568.6	554.2	561.0	568.6	573.4	568.6
2210.2	22.5°	2175.6	1952.8	1269.8	655.1	538.9	542.7	548.5	557.1	561.9	555.2
2316.8	25°	2269.7	1984.5	1147.8	569.6	524.5	529.3	537.9	547.5	553.3	546.5
2451.3	27.5°	2391.7	2035.4	1035.5	550.4	510.0	512.9	525.4	539.8	547.5	538.9
2642.4	30°	2568.5	2118.9	938.4	559.0	501.4	494.7	512.0	532.1	540.8	533.1
2902.7	32.5°	2802.8	2237.1	878.9	572.5	497.6	473.5	489.9	515.8	530.2	525.4
3242.8	35°	3110.2	2416.7	855.8	587.8	494.7	451.5	463.0	490.8	515.8	520.6
3671.2	37.5°	3482.9	2666.4	862.6	594.6	486.0	433.2	439.0	463.0	495.6	511.0
4153.3	40°	3906.5	2957.5	901.0	587.8	476.4	417.8	418.8	437.0	465.9	488.9
4672.0	42.5°	4343.5	3297.5	972.1	562.9	467.8	404.4	401.5	414.0	433.2	449.5
5189.8	45°	4759.4	3647.1	1042.2	528.3	457.2	390.9	384.2	389.0	392.9	399.6
5694.0	47.5°	5122.5	3893.0	1022.0	496.6	442.8	375.6	364.0	362.1	350.6	349.6
6144.5	50°	5373.2	3946.8	907.7	464.9	421.7	358.3	340.0	328.5	308.3	298.7
6481.7	52.5°	5452.9	3734.6	741.5	433.2	387.1	335.2	309.3	291.0	266.1	257.4
6675.7	55°	5347.3	3318.6	592.6	394.8	339.1	304.5	275.7	251.7	231.5	220.9
6696.8	57.5°	5088.9	2789.4	468.7	349.6	288.2	269.9	241.1	217.1	199.8	189.2
6462.5	60°	4660.5	2215.0	370.8	295.8	245.9	232.4	202.7	187.3	171.9	159.4
5857.3	62.5°	4010.2	1581.0	291.0	234.4	205.6	190.2	172.9	161.4	143.1	125.8
4769.0	65°	3129.4	967.3	224.8	171.9	165.2	157.5	147.0	136.4	114.3	97.0
3111.2	67.5°	1973.9	458.2	160.4	129.7	130.6	126.8	122.0	113.3	97.0	81.6
1393.7	70°	869.3	221.9	105.7	98.9	97.0	97.0	100.9	98.0	82.6	68.2
484.1	72.5°	295.8	119.1	78.8	74.9	70.1	69.2	84.5	81.6	66.3	52.8
241.1	75°	154.6	79.7	57.6	53.8	42.3	50.9	67.2	63.4	47.1	34.6
159.4	77.5°	100.9	56.7	39.4	34.6	24.0	33.6	49.9	44.2	27.9	17.3
104.7	80°	63.4	37.5	23.1	16.3	11.5	18.3	26.9	19.2	10.6	3.8
61.5	82.5°	33.6	19.2	8.6	5.8	4.8	5.8	6.7	4.8	1.9	0.0
31.7	85°	13.4	6.7	2.9	1.9	1.0	0.0	1.9	1.0	0.0	0.0
5.8	87.5°	4.8	1.0	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

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<u>180°</u>
1899.9
1775.1
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