

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: P953929

Luminaire Tested: **GALN-SB7B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35766 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

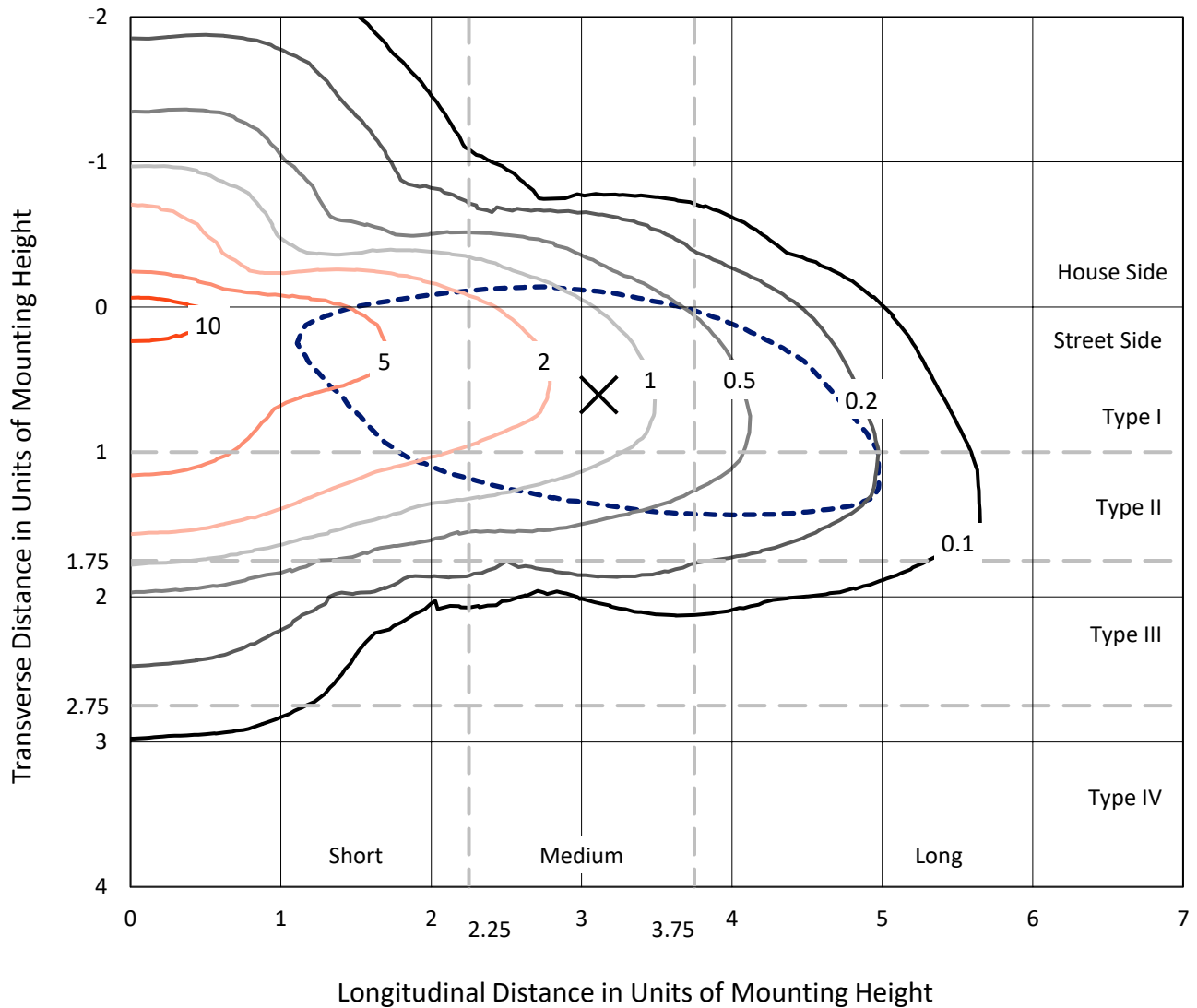
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

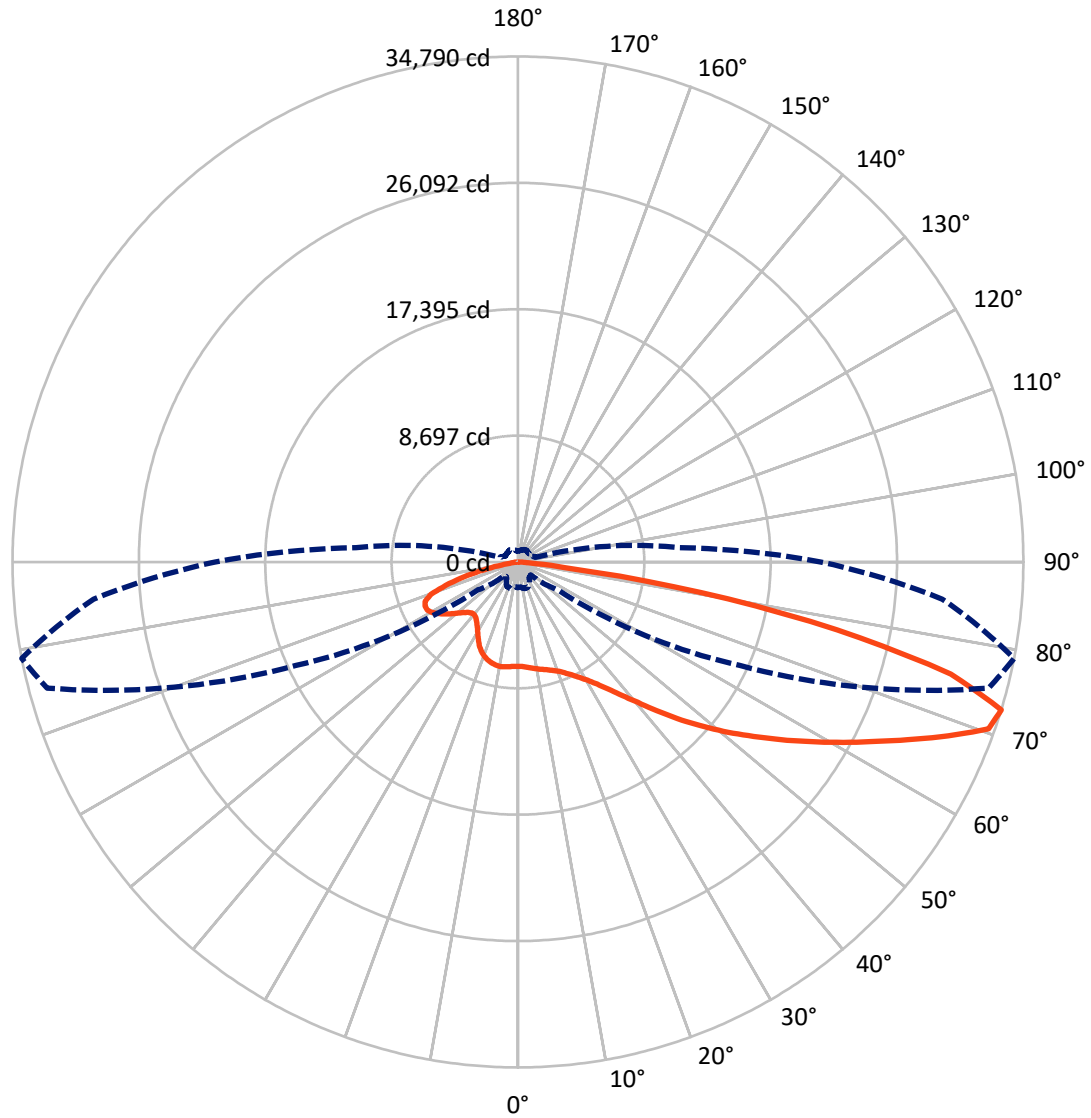
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7870.5	0.0	7870.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27895.5	0.0	27895.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	35766.0	0.0	35766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.7	1.8
10°-20°	1703.9	4.8
20°-30°	2749.4	7.7
30°-40°	4126.4	11.5
40°-50°	5853.6	16.4
50°-60°	7392.3	20.7
60°-70°	7507.9	21.0
70°-80°	5116.9	14.3
80°-90°	663.9	1.9
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°	35766.0	100.0
0°-180°	35766.0	100.0



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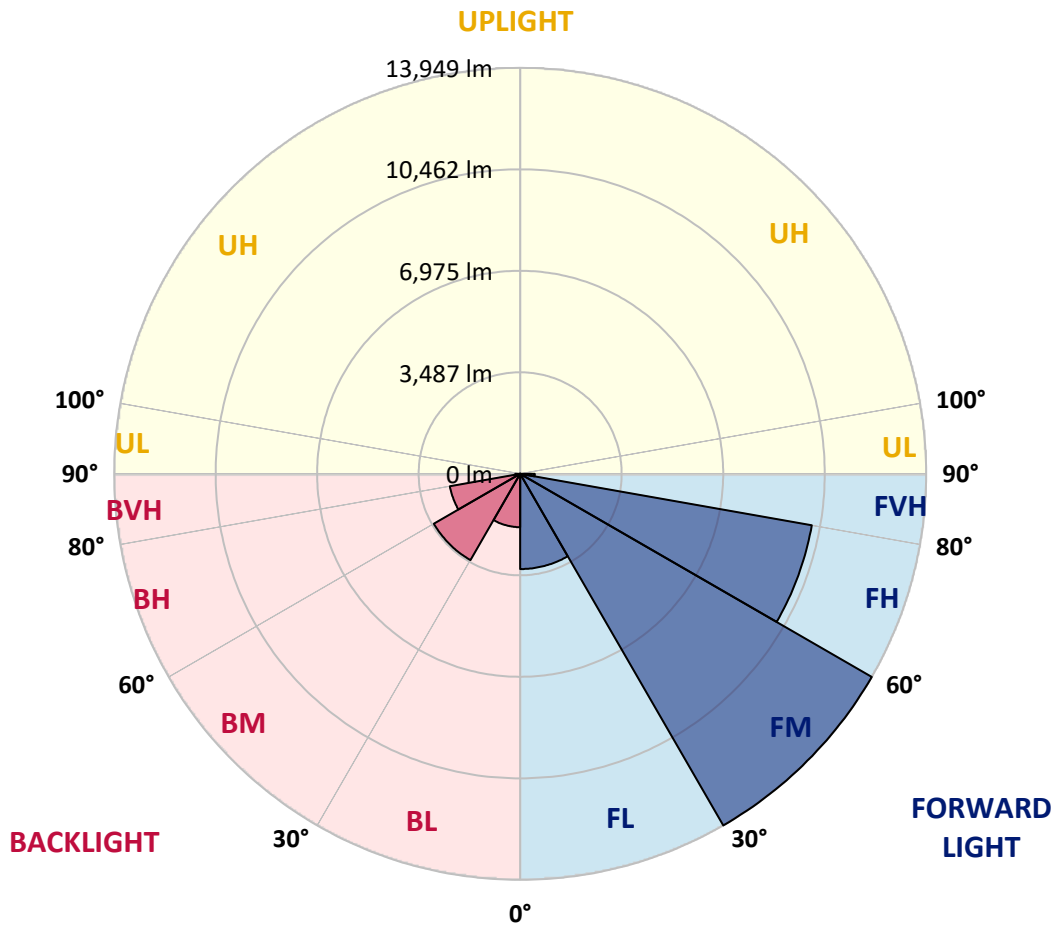
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3271.7	9.1			
FM (30°-60°)	13949.5	39.0			
FH (60°-80°)	10174.2	28.4			G4/12000
FVH (80°-90°)	500.1	1.4			G4/750
BL (0°-30°)	1833.3	5.1	B3/2500		
BM (30°-60°)	3422.8	9.6	B3/5000		
BH (60°-80°)	2450.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	163.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7
2.5°	7183.5	7149.4	7170.2	7162.7	7172.1	7183.5	7187.3	7192.9	7211.8	7210.0
5°	7168.3	7134.3	7162.7	7153.2	7177.8	7204.3	7227.0	7247.8	7278.1	7291.3
7.5°	7136.2	7113.5	7141.8	7170.2	7215.6	7255.4	7287.5	7334.8	7378.3	7385.9
10°	6948.9	6931.8	6998.1	7071.8	7196.7	7304.5	7374.5	7429.4	7476.7	7484.3
12.5°	6754.0	6733.2	6807.0	6907.3	7109.7	7304.5	7452.1	7524.0	7565.6	7590.2
15°	6721.8	6704.8	6746.4	6833.5	7001.8	7253.5	7505.1	7637.5	7673.5	7701.8
17.5°	6877.0	6844.8	6861.8	6892.1	6990.5	7206.2	7546.7	7766.2	7821.0	7851.3
20°	7236.4	7191.0	7164.5	7104.0	7087.0	7213.7	7542.9	7921.3	7993.2	8031.0
22.5°	7715.1	7684.8	7628.1	7474.8	7308.3	7306.4	7614.8	8119.9	8254.3	8290.2
25°	8294.0	8248.6	8176.7	7968.6	7648.9	7490.0	7735.9	8373.5	8598.6	8608.1
27.5°	8959.9	8891.8	8793.5	8519.1	8087.8	7777.5	7921.3	8664.8	8994.0	8990.2
30°	9661.8	9593.7	9489.7	9156.7	8613.7	8165.4	8178.6	8978.9	9463.2	9442.4
32.5°	10174.5	10123.4	10102.6	9845.3	9219.1	8623.2	8473.7	9327.0	10042.1	10023.2
35°	10568.0	10501.8	10526.4	10395.9	9879.4	9135.9	8835.1	9741.3	10745.9	10744.0
37.5°	10957.8	10899.1	10919.9	10832.9	10490.5	9786.7	9275.9	10248.3	11618.0	11659.7
40°	11313.4	11251.0	11334.3	11252.9	10965.3	10479.1	9777.2	10821.6	12628.3	12707.8
42.5°	11527.2	11478.0	11616.1	11618.0	11377.8	11063.7	10327.8	11453.4	13797.5	13975.3
45°	11601.0	11584.0	11792.1	11835.6	11742.9	11402.4	10823.4	12142.1	15057.5	15375.3
47.5°	11521.5	11489.4	11777.0	11937.8	12011.5	11561.3	11234.0	12887.5	16344.0	16809.4
50°	11120.5	11058.0	11485.6	11824.2	12087.2	11665.3	11648.3	13748.3	17806.4	18315.3
52.5°	10399.7	10352.4	10838.6	11427.0	11920.7	11716.4	12113.7	14688.6	19195.0	19853.4
55°	9478.3	9415.9	9951.3	10719.4	11506.4	11699.4	12579.1	15740.4	20833.4	21501.2
57.5°	8017.8	7892.9	8570.2	9478.3	10831.0	11678.6	13063.4	16786.7	22498.2	23298.5
60°	5887.5	5702.1	6532.7	7609.1	9510.5	11476.1	13663.2	17959.6	24496.1	25216.9
62.5°	3428.1	3320.2	3863.2	4867.8	7168.3	10284.3	13999.9	19323.7	26459.8	27216.6
65°	2661.9	2631.6	2678.9	2756.5	3990.0	7700.0	12961.3	20653.7	28957.1	29486.8
67.5°	2434.8	2412.1	2433.0	2287.3	2024.3	4288.9	10254.0	20990.4	31632.2	31953.9
70°	2164.3	2137.8	2205.9	2081.1	1593.0	1950.5	6625.4	19768.3	33760.6	34364.1
72.5°	1763.2	1733.0	1891.9	1835.1	1341.3	1252.4	3327.8	16864.2	33537.4	34789.8
75°	1354.6	1337.6	1526.7	1574.0	1093.5	985.7	1596.7	12535.6	29513.3	30775.2
77.5°	1051.9	1038.6	1135.1	1307.3	881.6	764.3	981.9	7951.6	22240.9	22462.3
80°	788.9	751.1	840.0	1012.2	686.8	558.1	665.9	4637.0	14058.6	12743.7
82.5°	493.8	474.9	548.6	675.4	484.3	384.1	433.2	2561.6	5634.0	3318.4
85°	281.9	274.3	298.9	385.9	263.0	221.3	247.8	1131.3	1029.2	707.6
87.5°	113.5	109.7	136.2	172.2	96.5	81.4	87.0	272.4	227.0	210.0
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°
7179.7	0°	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7	7179.7
7208.1	2.5°	7200.5	7200.5	7174.0	7132.4	7085.1	7054.8	7005.6	6992.4	6941.3	6926.2
7272.4	5°	7287.5	7272.4	7191.0	7073.7	6912.9	6765.4	6602.7	6500.5	6356.7	6305.6
7399.1	7.5°	7397.3	7355.6	7215.6	6958.3	6621.6	6290.5	5946.2	5685.1	5435.4	5346.5
7503.2	10°	7497.5	7438.9	7200.5	6750.2	6167.5	5594.3	5045.6	4661.6	4370.2	4251.1
7618.6	12.5°	7597.8	7490.0	7100.2	6404.0	5522.4	4744.8	4160.2	3861.3	3681.6	3537.8
7713.2	15°	7692.4	7541.0	6945.1	5940.5	4814.8	4025.9	3594.6	3356.2	3212.4	3117.8
7851.3	17.5°	7802.1	7584.5	6712.4	5352.1	4141.3	3528.4	3176.5	3032.7	3004.3	2993.0
8040.5	20°	7955.4	7624.3	6405.9	4693.8	3645.7	3131.1	2949.4	2936.2	2934.3	2928.6
8267.5	22.5°	8119.9	7671.6	6001.0	4095.9	3223.8	2883.2	2851.1	2824.6	2807.5	2805.7
8541.8	25°	8314.8	7686.7	5494.0	3605.9	2864.3	2765.9	2728.1	2688.4	2677.0	2677.0
8854.0	27.5°	8504.0	7635.6	4903.8	3180.3	2661.9	2658.1	2608.9	2595.7	2593.8	2599.4
9209.7	30°	8693.2	7539.1	4317.3	2786.7	2544.6	2544.6	2527.6	2537.0	2544.6	2563.5
9697.8	32.5°	8948.6	7437.0	3827.3	2495.4	2442.4	2423.5	2440.5	2459.4	2467.0	2491.6
10339.1	35°	9323.2	7365.1	3437.5	2336.5	2336.5	2311.9	2321.3	2317.6	2300.5	2289.2
11114.8	37.5°	9818.9	7361.3	3115.9	2262.7	2247.6	2243.8	2245.7	2221.1	2154.9	2075.4
12053.2	40°	10414.8	7463.5	2868.1	2211.6	2200.3	2223.0	2211.6	2145.4	1963.8	1825.7
13207.2	42.5°	11215.1	7754.8	2709.2	2149.2	2183.2	2211.6	2166.2	1937.3	1814.3	1721.6
14522.1	45°	12157.2	8227.8	2627.8	2083.0	2151.1	2185.1	1965.7	1865.4	1767.0	1655.4
15956.1	47.5°	13224.2	8823.7	2608.9	2020.5	2079.2	2100.0	1880.5	1835.1	1723.5	1602.4
17397.7	50°	14385.9	9529.4	2660.0	1946.7	1975.1	1903.2	1852.2	1810.5	1695.1	1575.9
18875.3	52.5°	15587.2	10307.0	2762.1	1846.5	1871.1	1791.6	1840.8	1804.9	1678.1	1517.3
20402.0	55°	16767.7	11090.2	2860.5	1729.2	1765.1	1691.3	1808.6	1782.2	1600.5	1418.9
22030.9	57.5°	17967.2	11869.7	2957.0	1625.1	1663.0	1594.9	1757.6	1721.6	1513.5	1328.1
23809.3	60°	19213.9	12626.4	3002.4	1524.9	1551.3	1505.9	1680.0	1617.6	1415.1	1235.4
25557.4	62.5°	20381.2	13256.4	2928.6	1424.6	1441.6	1422.7	1577.8	1494.6	1316.7	1131.3
27379.3	65°	21552.3	13631.0	2701.6	1326.2	1330.0	1320.5	1434.0	1362.2	1201.3	1040.5
28974.1	67.5°	22613.6	13841.0	2340.3	1220.3	1210.8	1207.0	1299.7	1218.4	1089.7	949.7
30186.8	70°	22838.8	13307.5	1787.8	1095.4	1095.4	1085.9	1152.2	1068.9	966.8	853.2
29318.5	72.5°	20859.9	11194.3	1269.5	953.5	968.6	949.7	1004.6	934.6	841.9	766.2
25267.9	75°	16820.7	8208.9	923.2	807.8	834.3	802.2	853.2	804.0	724.6	722.7
17412.9	77.5°	11557.5	5075.9	669.7	665.9	684.9	643.2	701.9	675.4	603.5	571.3
7578.9	80°	4932.1	2024.3	488.1	514.6	514.6	476.8	544.9	552.4	490.0	474.9
1462.4	82.5°	981.9	575.1	342.4	353.8	333.0	321.6	385.9	427.6	590.3	656.5
440.8	85°	295.1	211.9	206.2	193.0	170.3	172.2	227.0	429.5	529.7	302.7
145.7	87.5°	81.4	53.0	54.9	43.5	35.9	47.3	77.6	325.4	177.8	75.7
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°
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7179.7
6950.8
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3134.8
3000.5
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2077.3
1821.9
1717.8
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1593.0
1562.7
1505.9
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