

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: P458767

Luminaire Tested: **GALN-SA3A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12611 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

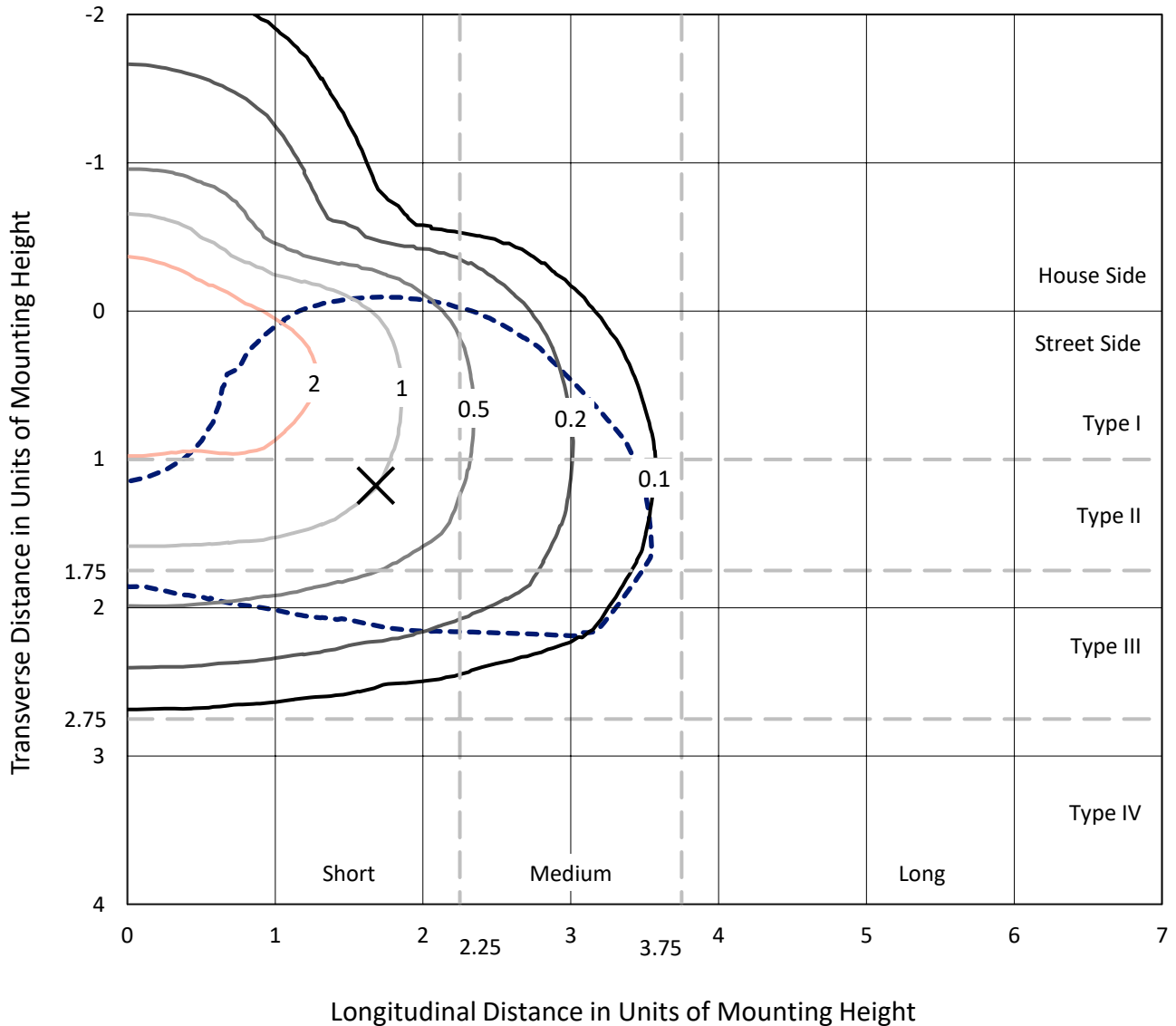
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458767
 CATALOG NUMBER: GALN-SA3A-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

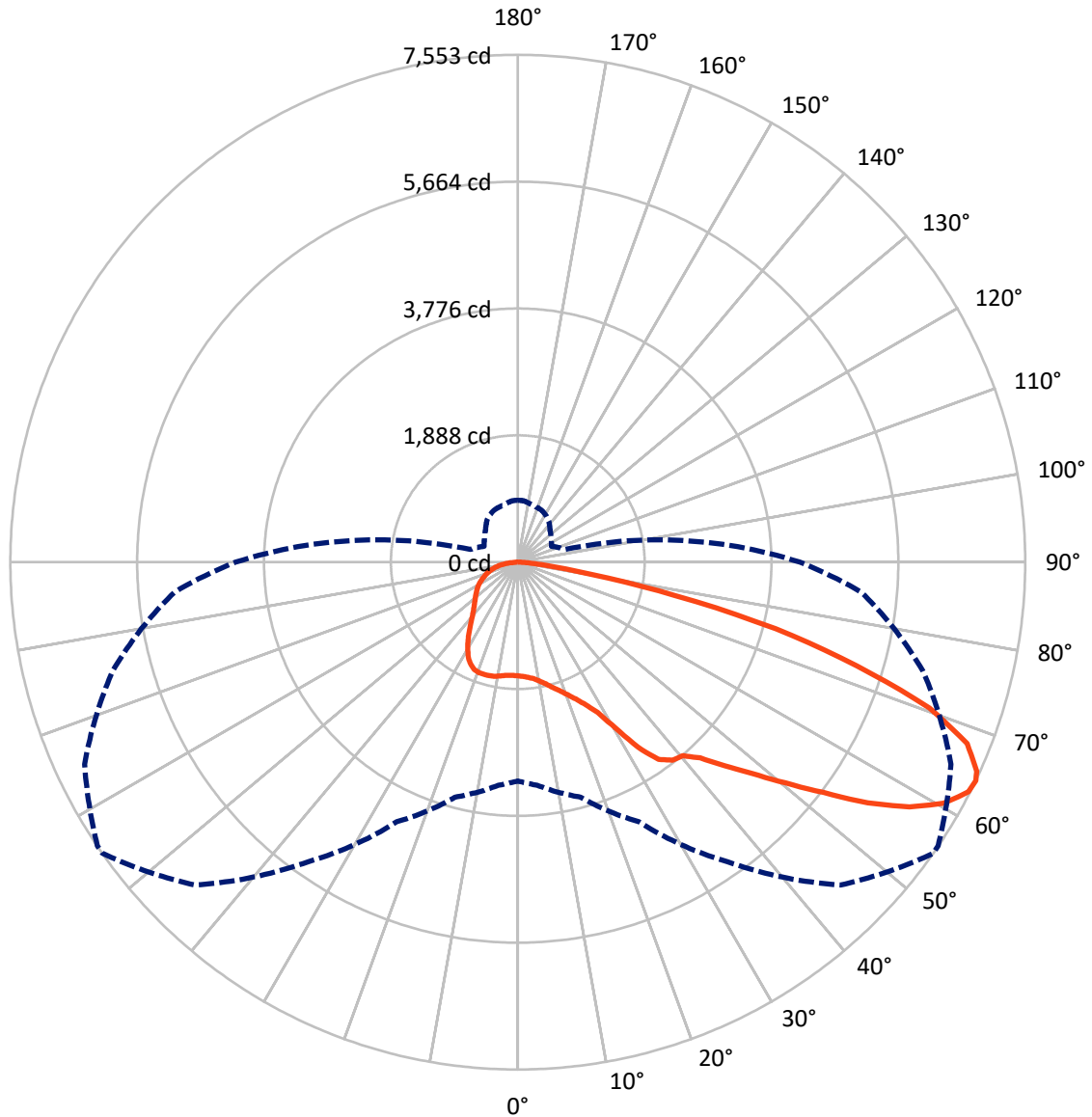
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

REPORT NUMBER: P458767
CATALOG NUMBER: GALN-SA3A-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P458767

CATALOG NUMBER: GALN-SA3A-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.5	0.0	3063.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9547.5	0.0	9547.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	12611.0	0.0	12611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.3
10°-20°	519.3	4.1
20°-30°	924.5	7.3
30°-40°	1422.5	11.3
40°-50°	2016.5	16.0
50°-60°	2918.8	23.1
60°-70°	3020.7	24.0
70°-80°	1414.6	11.2
80°-90°	209.4	1.7
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°	12611.0	100.0
0°-180°	12611.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458767

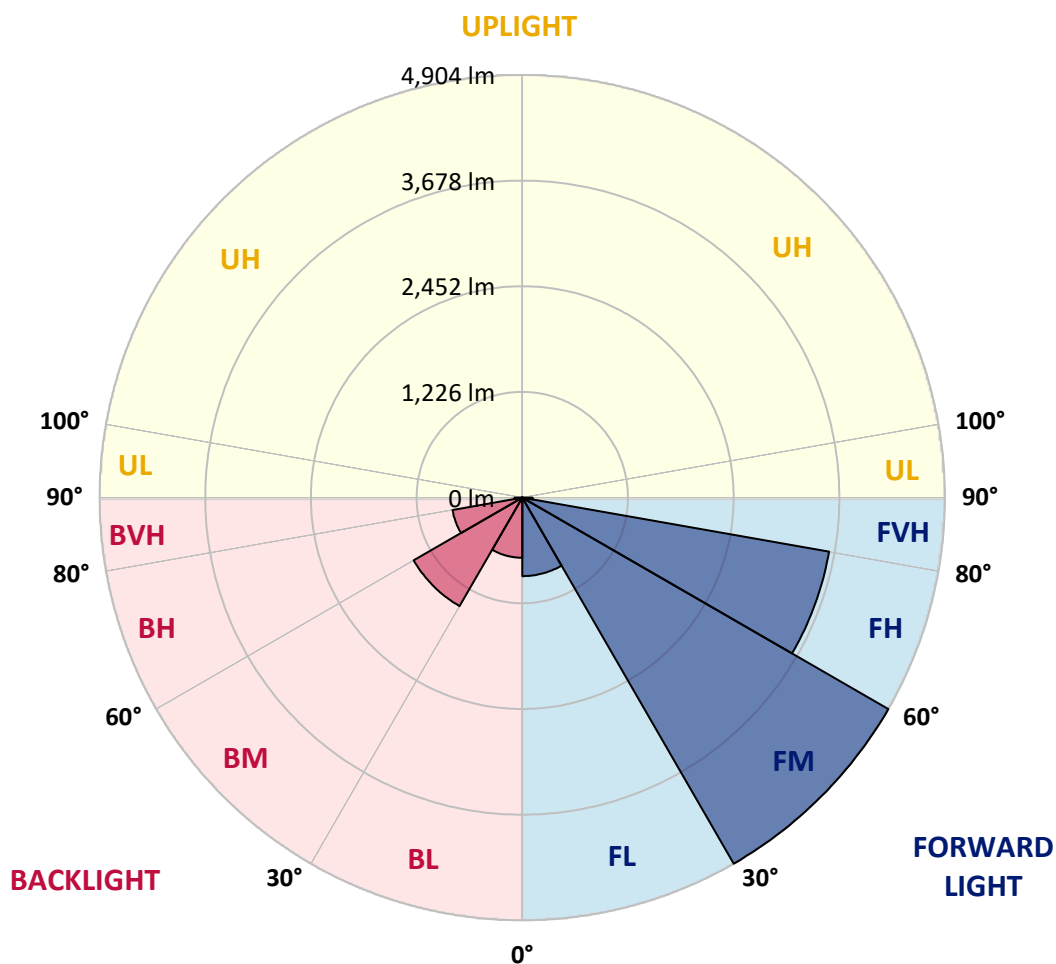
CATALOG NUMBER: GALN-SA3A-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	910.7	7.2			
FM	(30°-60°)	4903.5	38.9			
FH	(60°-80°)	3613.4	28.7			G2/5000
FVH	(80°-90°)	119.9	1.0			G2/225
BL	(0°-30°)	697.7	5.5	B2/1000		
BM	(30°-60°)	1454.3	11.5	B2/2500		
BH	(60°-80°)	821.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	89.5	0.7			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: P458767

CATALOG NUMBER: GALN-SA3A-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0
2.5°	1711.0	1710.3	1712.4	1710.3	1711.7	1706.8	1704.7	1706.1	1704.0	1700.5	1694.1
5°	1732.1	1731.4	1732.1	1729.3	1730.7	1727.9	1722.9	1724.4	1720.8	1713.1	1704.0
7.5°	1767.9	1765.1	1765.1	1764.4	1761.6	1757.4	1753.9	1752.5	1749.0	1739.1	1725.1
10°	1814.3	1814.3	1815.0	1809.4	1812.9	1805.2	1801.7	1801.0	1789.0	1776.4	1756.7
12.5°	1875.5	1879.0	1876.9	1874.1	1872.7	1869.9	1857.9	1860.7	1847.4	1825.6	1801.7
15°	1951.4	1957.0	1953.5	1952.1	1948.6	1938.1	1933.1	1931.0	1913.4	1881.8	1850.2
17.5°	2051.9	2044.9	2042.1	2038.6	2023.8	2016.1	2007.6	2006.2	1990.8	1953.5	1904.3
20°	2139.8	2149.6	2144.0	2140.5	2125.7	2111.0	2104.7	2102.5	2089.2	2048.4	1969.7
22.5°	2244.5	2246.6	2248.8	2240.3	2233.3	2222.0	2210.8	2207.3	2202.4	2160.2	2063.9
25°	2356.3	2364.7	2357.7	2349.3	2340.8	2340.1	2350.7	2349.3	2347.2	2306.4	2189.0
27.5°	2538.4	2546.1	2548.2	2539.1	2506.7	2509.6	2533.5	2541.2	2573.5	2506.0	2350.0
30°	2641.0	2648.7	2666.3	2700.8	2752.1	2797.1	2854.7	2872.3	2903.2	2776.0	2541.2
32.5°	2704.3	2707.1	2738.7	2802.7	2956.6	3124.6	3281.4	3287.7	3307.4	3128.9	2716.2
35°	2804.1	2806.2	2831.5	2901.8	3082.5	3362.2	3604.8	3612.5	3596.3	3238.5	2797.8
37.5°	2927.1	2932.7	2948.9	3007.2	3223.1	3561.2	3739.0	3733.4	3590.0	3325.7	2941.9
40°	3106.4	3106.4	3087.4	3166.1	3371.4	3675.1	3786.1	3776.3	3738.3	3578.0	3161.2
42.5°	3264.5	3261.7	3306.7	3360.1	3557.0	3850.8	3983.7	3999.8	4062.4	3895.1	3410.7
45°	3470.5	3483.1	3508.5	3605.5	3872.6	4151.0	4322.5	4337.9	4426.5	4268.4	3702.5
47.5°	3678.6	3682.8	3762.2	3891.6	4263.4	4558.0	4698.6	4723.9	4804.7	4704.9	4016.7
50°	3826.2	3866.3	3993.5	4197.4	4666.2	5054.3	5163.9	5194.1	5336.8	5180.1	4382.9
52.5°	3982.2	4021.6	4177.0	4487.7	5128.8	5561.8	5696.8	5717.1	5865.5	5660.9	4757.6
55°	4115.8	4152.4	4328.8	4745.0	5497.1	6079.9	6324.5	6300.6	6371.6	6031.4	5046.5
57.5°	4137.6	4167.1	4389.3	4909.4	5774.1	6524.1	6874.9	6889.0	6806.7	6308.3	5284.8
60°	3968.9	4029.3	4284.5	4891.9	5898.5	6833.4	7285.4	7295.3	7061.9	6450.3	5379.7
62.5°	3670.1	3663.8	3972.4	4609.3	5724.2	6903.7	7527.3	7516.7	7161.7	6382.1	5287.6
64°	3257.5	3333.4	3621.6	4262.0	5443.0	6795.5	7552.6	7546.9	7113.9	6240.1	5130.9
65°	3005.8	3001.6	3286.3	3978.0	5163.2	6632.4	7507.6	7499.8	7014.1	6112.9	5009.3
67.5°	2170.0	2179.9	2461.0	3069.8	4197.4	5994.8	7214.4	7185.6	6620.4	5691.1	4546.7
70°	1314.5	1320.2	1540.9	2036.5	3012.9	4846.2	6503.0	6504.5	6018.0	5061.3	3869.8
72.5°	692.4	707.2	795.7	1156.4	1829.8	3400.2	5275.7	5400.8	5166.7	4319.7	3057.2
75°	385.2	387.3	449.9	570.1	933.5	1902.9	3965.4	4001.2	4090.5	3476.8	2260.7
77.5°	293.8	298.1	317.7	368.3	508.2	882.2	2399.9	2579.8	2882.8	2451.2	1289.9
80°	238.3	242.5	259.4	289.6	338.1	418.3	1114.9	1211.9	1543.0	1088.2	503.3
82.5°	185.6	182.8	204.6	224.2	246.0	247.4	457.6	506.1	628.4	468.2	217.9
85°	137.8	137.8	155.4	151.1	158.9	144.8	201.7	222.8	251.7	198.9	101.2
87.5°	54.8	60.5	101.9	91.4	71.0	56.9	74.5	78.7	87.2	78.0	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458767
 CATALOG NUMBER: GALN-SA3A-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0
2.5°	1694.8	1696.9	1692.0	1688.5	1687.1	1685.0	1682.9	1683.6	1686.4	1689.2	1688.5
5°	1703.3	1704.0	1695.5	1691.3	1688.5	1685.7	1685.7	1687.8	1693.4	1697.6	1697.6
7.5°	1724.4	1724.4	1712.4	1704.7	1700.5	1695.5	1694.1	1694.8	1699.0	1704.7	1705.4
10°	1757.4	1754.6	1739.1	1727.2	1719.4	1707.5	1696.9	1691.3	1693.4	1696.9	1696.9
12.5°	1797.5	1789.7	1770.0	1753.9	1734.9	1712.4	1690.6	1679.4	1678.7	1682.2	1680.8
15°	1840.3	1831.9	1804.5	1775.0	1741.9	1708.9	1682.9	1666.7	1654.1	1650.5	1658.3
17.5°	1890.2	1872.7	1834.7	1793.9	1744.7	1701.9	1661.1	1628.0	1605.6	1599.2	1601.3
20°	1950.7	1927.5	1876.2	1812.2	1742.6	1676.6	1613.3	1569.0	1532.4	1521.2	1522.6
22.5°	2034.4	1994.3	1919.1	1821.4	1725.1	1628.7	1540.9	1483.2	1439.0	1421.4	1431.9
25°	2129.3	2085.7	1959.8	1819.3	1679.4	1552.1	1455.1	1379.9	1339.8	1313.8	1319.4
27.5°	2260.0	2182.7	2003.4	1800.3	1614.0	1458.6	1346.2	1275.2	1238.6	1225.3	1231.6
30°	2427.3	2308.5	2050.5	1749.0	1510.7	1340.5	1236.5	1190.1	1168.3	1151.4	1157.1
32.5°	2548.2	2397.1	2061.1	1662.5	1398.9	1233.0	1162.0	1127.5	1103.6	1087.5	1091.0
35°	2634.7	2472.3	2056.1	1556.3	1282.2	1144.4	1102.9	1074.8	1036.2	1001.0	994.7
37.5°	2750.7	2566.5	2020.3	1440.4	1166.9	1084.7	1055.1	1003.1	947.6	900.5	898.4
40°	2928.5	2676.9	1943.7	1304.0	1068.5	1040.4	1004.5	937.0	877.3	839.3	836.5
42.5°	3112.0	2778.8	1839.6	1160.6	987.7	994.0	950.4	883.6	847.1	822.5	819.6
45°	3336.2	2889.1	1727.2	1036.2	927.9	950.4	903.3	864.6	842.8	826.7	822.5
47.5°	3578.7	3002.3	1600.6	924.4	877.3	910.3	883.6	866.0	854.1	842.8	837.9
50°	3840.2	3128.9	1481.8	834.4	831.6	868.9	881.5	875.2	868.2	864.6	860.4
52.5°	4127.1	3258.2	1382.0	771.1	791.5	839.3	882.2	887.1	887.1	885.0	882.2
55°	4321.1	3348.2	1280.8	719.8	750.8	815.4	880.8	899.8	906.8	904.0	901.2
57.5°	4464.5	3397.4	1153.6	675.5	716.3	792.2	873.1	901.2	908.2	911.7	910.3
60°	4494.0	3351.7	987.0	629.1	679.1	758.5	845.0	880.1	889.2	911.0	913.1
62.5°	4361.1	3211.1	821.1	583.5	633.4	707.2	807.0	856.2	874.5	908.2	911.7
64°	4198.1	3053.6	729.0	554.6	603.8	678.4	788.0	849.9	873.8	918.8	921.6
65°	4078.6	2939.1	671.3	536.4	584.9	659.4	777.5	852.0	880.1	934.9	939.1
67.5°	3638.5	2544.7	555.3	493.5	539.9	627.0	779.6	869.6	878.7	941.3	940.6
70°	3010.8	2025.9	465.4	454.1	496.3	601.0	771.1	841.4	842.1	883.6	873.8
72.5°	2254.4	1497.3	403.5	413.3	447.8	539.2	728.3	803.5	791.5	797.2	787.3
75°	1548.6	990.5	347.3	369.8	397.2	476.6	667.8	729.7	710.7	703.7	696.6
77.5°	826.7	547.6	288.9	326.9	345.2	411.9	582.8	642.5	622.8	595.4	586.3
80°	334.6	258.0	232.7	270.6	281.2	331.8	485.0	522.3	507.5	459.7	444.3
82.5°	168.0	154.7	182.8	213.0	213.7	236.9	360.6	395.8	362.7	304.4	291.0
85°	87.9	90.7	125.8	149.7	132.2	127.9	216.5	239.7	220.0	191.2	172.2
87.5°	31.6	36.6	66.1	65.4	46.4	24.6	47.8	23.2	12.7	7.7	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)