

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: P646852

Luminaire Tested: **GALN-SA3C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14440.9 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

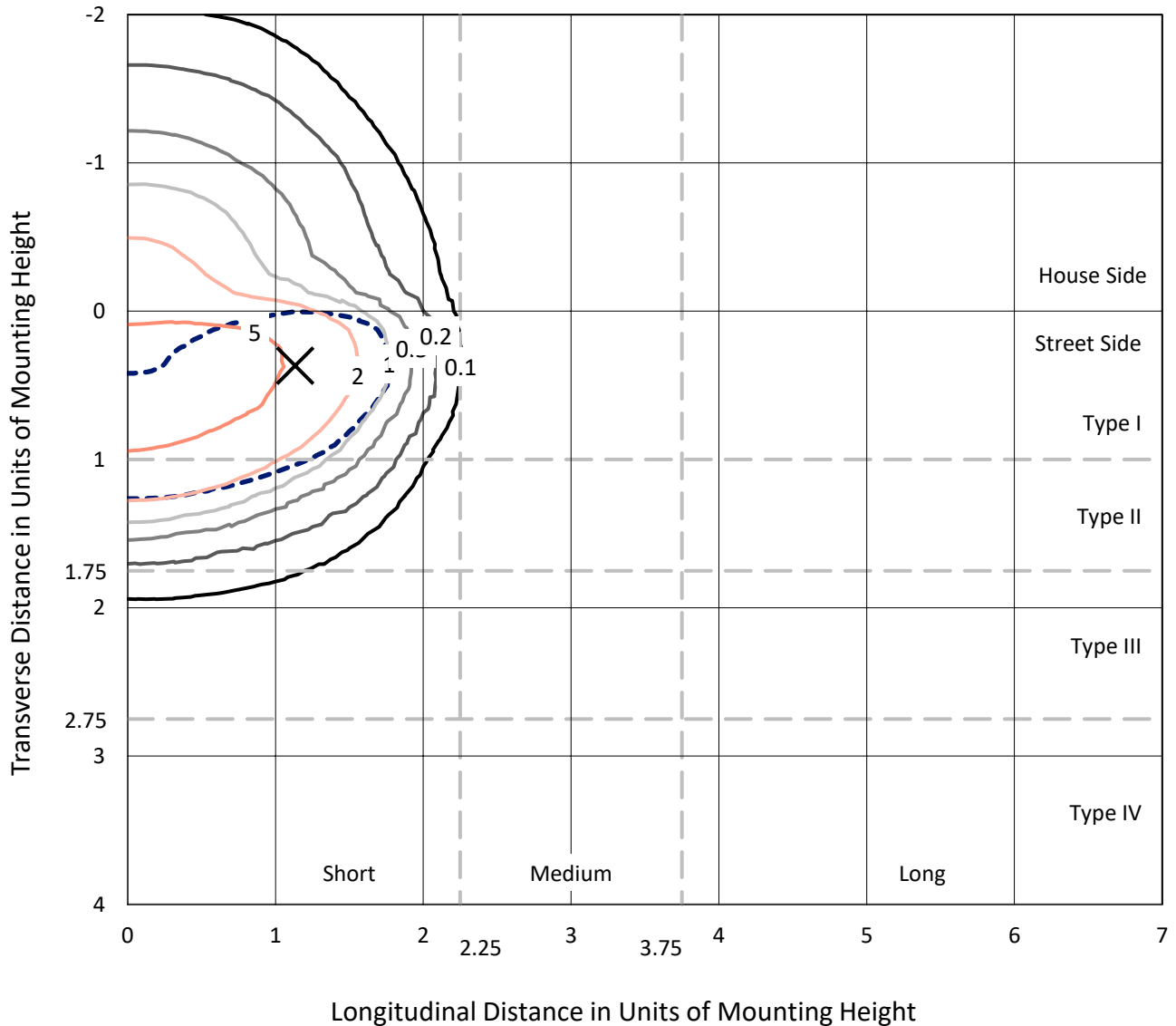
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

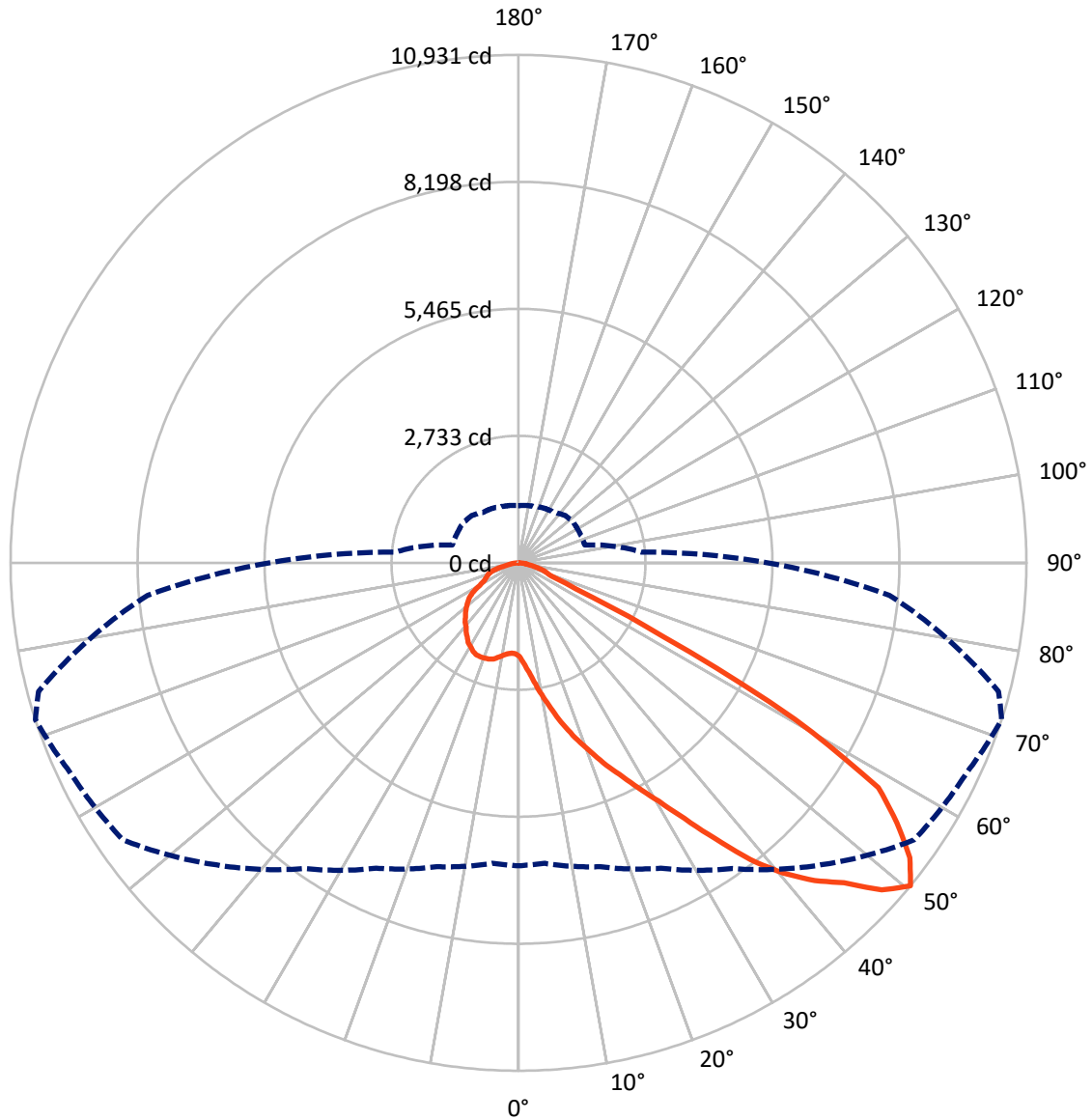
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3308.5	0.0	3308.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	11132.4	0.0	11132.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	14440.9	0.0	14440.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.5	1.6
10°-20°	884.0	6.1
20°-30°	1714.0	11.9
30°-40°	2839.4	19.7
40°-50°	3973.0	27.5
50°-60°	3351.7	23.2
60°-70°	1021.6	7.1
70°-80°	358.4	2.5
80°-90°	62.3	0.4
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°	14440.9	100.0
0°-180°	14440.9	100.0

**Coefficient of Utilization**

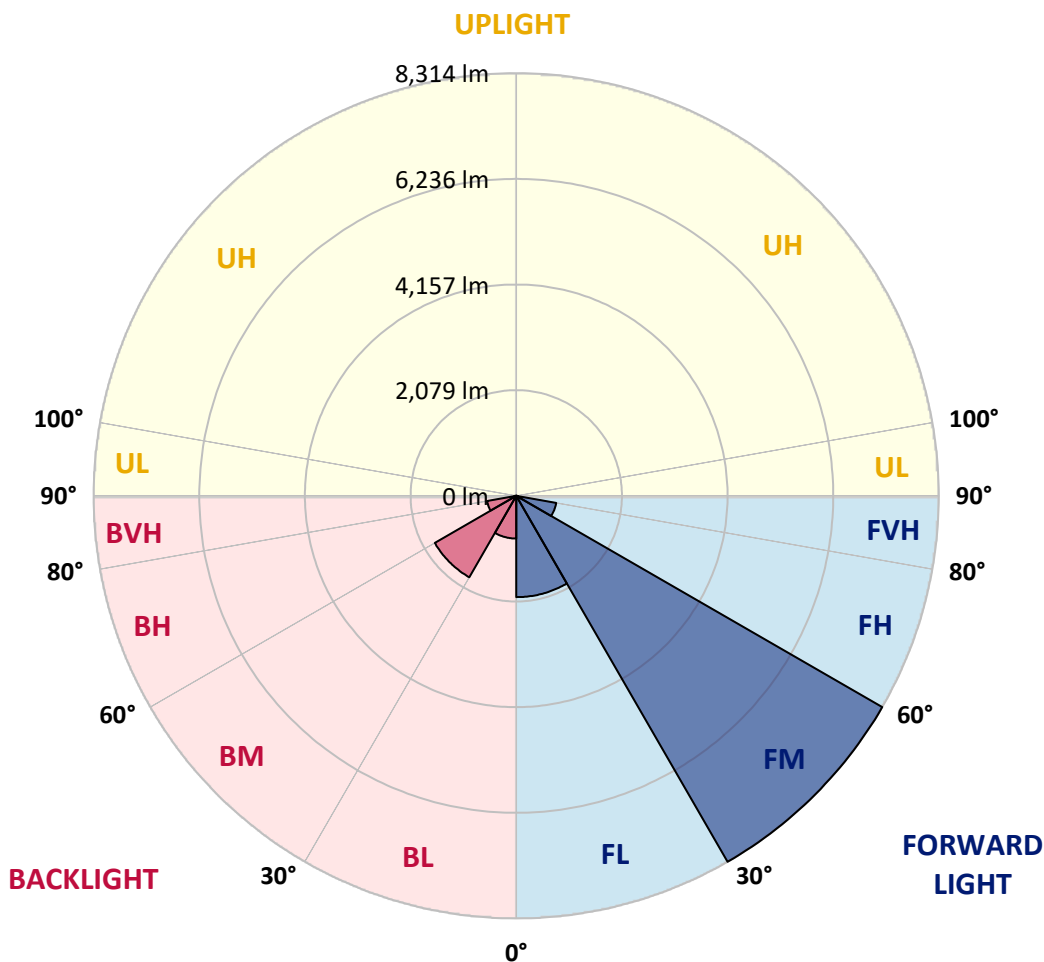


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1993.4	13.8			
FM (30°-60°)	8314.0	57.6			
FH (60°-80°)	797.1	5.5			G1/1800
FVH (80°-90°)	27.9	0.2			G1/100
BL (0°-30°)	841.0	5.8	B2/1000		
BM (30°-60°)	1850.2	12.8	B2/2500		
BH (60°-80°)	582.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	34.4	0.2			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2585.7	2569.6	2521.3	2505.3	2448.1	2344.5	2308.7	2203.3	2158.6	2117.5	2069.2
5°	3270.0	3195.0	3189.6	3098.6	2966.3	2889.4	2660.7	2507.1	2365.9	2294.4	2162.2
7.5°	3706.1	3707.9	3707.9	3632.8	3527.4	3332.6	3127.1	2850.1	2637.5	2532.1	2307.0
10°	4120.6	4084.9	4065.3	4058.1	3986.6	3797.2	3577.4	3234.3	2943.1	2819.7	2415.9
12.5°	4413.7	4383.3	4428.0	4404.8	4352.9	4229.7	4022.3	3631.0	3266.5	3100.3	2591.0
15°	4553.1	4574.5	4610.3	4674.6	4651.3	4604.9	4376.2	4038.5	3615.0	3427.3	2746.5
17.5°	4767.5	4708.6	4751.4	4831.8	4896.2	4874.7	4744.3	4333.3	3959.9	3729.4	2955.6
20°	4917.6	4883.6	4905.1	4998.0	5046.3	5167.8	5099.9	4719.3	4290.4	4047.4	3202.2
22.5°	5346.5	5296.4	5226.8	5241.1	5258.9	5344.7	5360.8	5142.7	4674.6	4417.3	3436.3
25°	5875.4	5829.0	5746.8	5662.7	5611.0	5594.8	5650.3	5475.1	5042.7	4776.5	3688.2
27.5°	6457.9	6379.3	6327.5	6154.1	6014.8	5993.3	5966.5	5871.9	5478.7	5191.1	3972.3
30°	7024.4	6961.9	6892.2	6615.2	6470.5	6447.2	6315.0	6341.8	5952.3	5632.4	4294.0
32.5°	7453.3	7458.6	7299.6	7090.5	6954.7	6831.4	6783.2	6860.0	6559.8	6302.5	4653.1
35°	7799.9	7816.0	7664.2	7474.7	7328.2	7414.0	7392.5	7428.2	7285.3	6970.8	5071.3
37.5°	8137.6	8057.2	7894.7	7803.5	7726.6	7867.8	8050.1	8080.5	8107.3	7737.4	5557.3
40°	8193.1	8200.2	8105.5	8169.8	8073.4	8285.9	8709.5	8670.2	8779.2	8455.8	6084.5
42.5°	8114.5	8130.5	8168.0	8259.2	8491.5	8747.0	9376.0	9215.2	9347.4	9059.7	6597.3
45°	7985.7	7919.7	7966.1	8312.8	8714.9	9283.1	9985.4	9860.2	9817.4	9576.2	7208.5
47.5°	7371.1	7439.0	7583.7	8010.8	8614.8	9376.0	10417.8	10389.2	10517.9	10348.1	7764.2
50°	6518.7	6491.9	6770.7	7251.4	8030.4	9193.8	10394.6	10653.7	10930.6	10694.8	8012.6
52.5°	4881.8	5024.8	5264.3	5861.1	6972.6	8200.2	9887.1	10319.5	10544.7	10494.6	7812.5
55°	3086.0	3128.9	3273.6	3983.0	4983.7	6581.3	8475.4	9477.8	9879.9	10067.6	7628.4
57.5°	1499.2	1418.8	1595.8	2165.8	2878.7	4426.2	6536.6	8255.6	9129.4	9468.9	7228.1
60°	782.7	813.1	882.8	1086.4	1488.5	2297.9	4074.2	5502.0	6836.8	7358.6	5478.7
62.5°	648.6	659.4	705.9	807.7	989.9	1322.3	2080.0	2682.2	3486.3	3956.3	3116.4
65°	550.4	555.7	605.8	673.7	789.8	931.0	1070.4	1120.4	1356.3	1392.0	1107.9
67.5°	459.2	464.6	518.2	582.6	657.6	695.1	730.9	727.3	754.1	743.4	741.6
70°	353.8	359.2	414.6	482.5	520.0	498.5	609.3	634.4	645.1	654.0	668.3
72.5°	255.5	266.2	309.1	357.4	337.7	387.7	502.1	539.6	554.0	559.3	577.1
75°	185.8	189.4	200.1	185.8	214.5	269.8	353.8	400.3	418.1	423.5	450.3
77.5°	82.2	84.0	85.7	107.2	137.6	168.0	210.9	248.4	273.4	280.5	287.7
80°	42.9	44.7	55.4	73.3	98.3	123.3	153.7	175.2	191.2	193.0	200.1
82.5°	26.8	28.6	39.3	51.8	69.7	91.1	112.6	130.4	143.0	144.8	146.5
85°	12.5	16.1	23.3	32.2	46.4	59.0	60.8	51.8	55.4	57.2	53.6
87.5°	3.6	5.3	7.1	5.3	7.1	7.1	8.9	10.7	10.7	10.7	12.5
90°	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2042.5	2026.4	1963.8	1940.6	1879.8	1890.6	1858.4	1856.6	1849.4	1847.6	1845.9
5°	2092.5	2042.5	1967.4	1910.2	1876.3	1872.7	1849.4	1849.4	1856.6	1862.0	1849.4
7.5°	2174.7	2117.5	1990.6	1937.1	1906.7	1901.3	1885.2	1872.7	1888.8	1883.4	1869.1
10°	2269.4	2169.3	2035.3	1988.8	1938.8	1926.3	1926.3	1931.7	1904.9	1913.8	1899.5
12.5°	2374.8	2240.8	2092.5	2038.9	1979.9	1972.8	1969.2	1929.9	1944.2	1937.1	1901.3
15°	2508.8	2323.0	2165.8	2074.6	2024.6	1992.4	1946.0	1938.8	1929.9	1912.0	1896.0
17.5°	2653.6	2412.3	2199.7	2085.4	2010.3	1987.1	1951.3	1913.8	1887.0	1890.6	1878.0
20°	2776.9	2494.6	2212.2	2096.1	1999.5	1954.9	1899.5	1876.3	1847.6	1845.9	1844.1
22.5°	2923.4	2605.4	2230.1	2067.5	1967.4	1920.9	1883.4	1842.3	1822.7	1797.6	1810.1
25°	3098.6	2648.3	2233.7	2051.4	1944.2	1862.0	1842.3	1797.6	1790.5	1754.8	1761.9
27.5°	3225.4	2671.4	2205.1	2001.3	1890.6	1828.0	1792.3	1760.1	1747.6	1720.8	1713.7
30°	3395.2	2707.2	2144.3	1938.8	1837.0	1767.2	1745.9	1738.7	1702.9	1674.4	1670.8
32.5°	3588.2	2730.4	2105.0	1874.5	1781.6	1727.9	1738.7	1704.7	1660.0	1635.1	1627.9
35°	3741.8	2739.3	2006.8	1801.2	1744.1	1710.1	1697.5	1690.4	1626.1	1602.9	1585.0
37.5°	3975.9	2719.7	1924.5	1749.4	1702.9	1690.4	1679.7	1631.5	1558.2	1524.3	1499.2
40°	4249.3	2714.3	1819.1	1676.2	1663.6	1677.9	1645.8	1570.7	1468.8	1431.3	1413.5
42.5°	4512.0	2751.9	1753.0	1636.9	1620.7	1626.1	1581.4	1468.8	1418.8	1397.3	1368.8
45°	4951.5	2830.5	1644.0	1576.1	1568.9	1565.4	1511.7	1393.8	1365.2	1338.4	1333.1
47.5°	5348.3	2778.6	1574.3	1513.5	1520.7	1501.0	1386.7	1349.1	1316.9	1290.1	1281.2
50°	5371.5	2655.4	1476.0	1465.3	1467.0	1433.1	1324.1	1299.1	1258.0	1240.1	1227.6
52.5°	5250.0	2453.5	1384.9	1388.4	1393.8	1338.4	1247.2	1229.4	1195.5	1170.4	1163.3
55°	4908.7	2138.9	1295.6	1309.8	1324.1	1218.7	1190.1	1145.5	1118.6	1082.9	1084.7
57.5°	4324.4	1722.6	1170.4	1193.7	1224.1	1107.9	1086.4	1031.1	991.7	963.2	959.6
60°	2898.4	1225.9	982.8	991.7	1059.6	1013.2	1011.4	956.0	902.4	877.4	863.1
62.5°	1710.1	936.3	848.8	839.8	838.0	864.9	909.5	889.9	820.2	772.0	786.2
65°	895.3	809.5	789.8	759.4	741.6	734.5	768.4	777.3	730.9	679.0	675.5
67.5°	752.3	752.3	736.2	725.5	700.5	670.1	648.6	620.1	612.9	598.6	580.8
70°	684.4	702.3	696.9	671.9	650.4	616.5	561.1	514.7	470.0	453.9	464.6
72.5°	596.8	614.7	614.7	602.2	573.6	521.8	468.2	414.6	377.0	348.4	344.9
75°	459.2	468.2	489.6	475.4	437.8	405.6	350.2	294.9	259.1	232.3	226.9
77.5°	293.1	307.3	307.3	305.5	278.7	248.4	212.7	173.4	146.5	126.8	121.5
80°	194.8	203.7	210.9	203.7	185.8	162.6	135.8	109.0	89.3	73.3	69.7
82.5°	143.0	153.7	159.0	151.9	134.0	116.1	96.5	76.8	57.2	44.7	41.1
85°	55.4	57.2	64.4	76.8	75.1	73.3	59.0	42.9	32.2	23.3	21.5
87.5°	14.3	12.5	14.3	14.3	12.5	10.7	10.7	10.7	10.7	5.3	7.1
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)