

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: STREETWORKS

Report Number: P458609

Luminaire Tested: **GLAN-SA1D-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7227 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

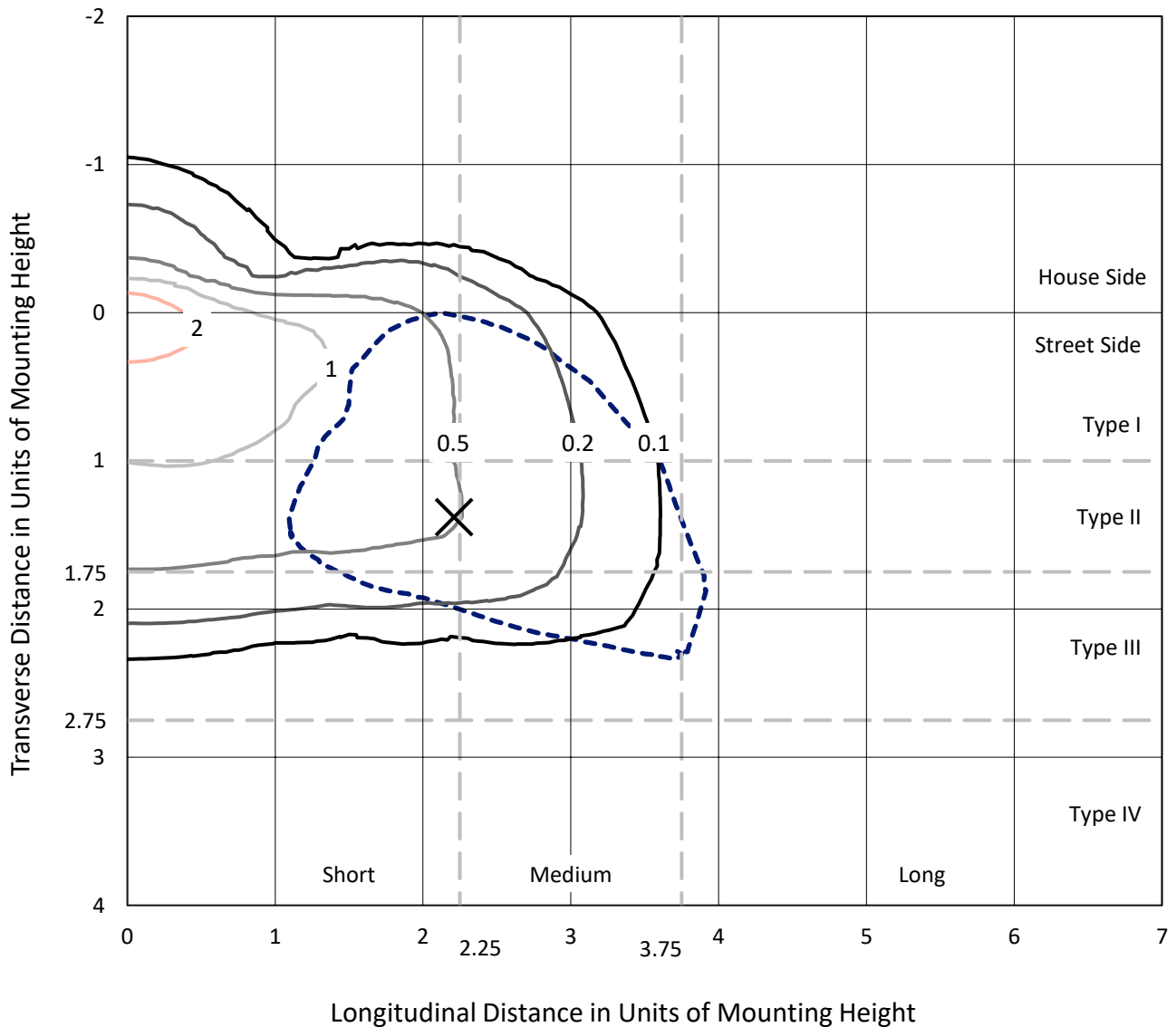
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

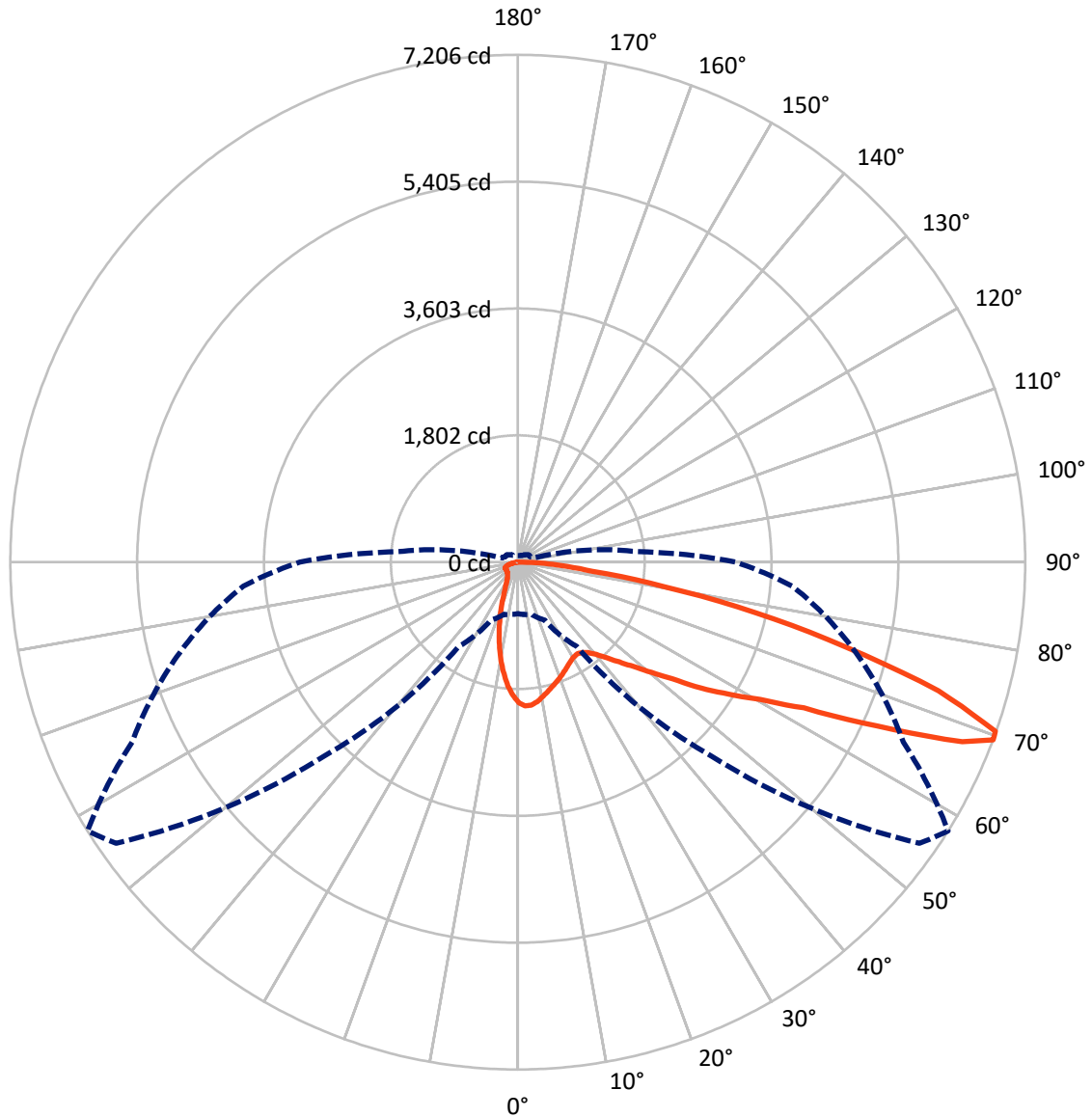
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1059.1	0.0	1059.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	6167.9	0.0	6167.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	7227.0	0.0	7227.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.6	2.3
10°-20°	372.4	5.2
20°-30°	481.2	6.7
30°-40°	625.0	8.6
40°-50°	908.6	12.6
50°-60°	1449.8	20.1
60°-70°	1936.8	26.8
70°-80°	1116.5	15.4
80°-90°	167.2	2.3
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°	7227.0	100.0
0°-180°	7227.0	100.0



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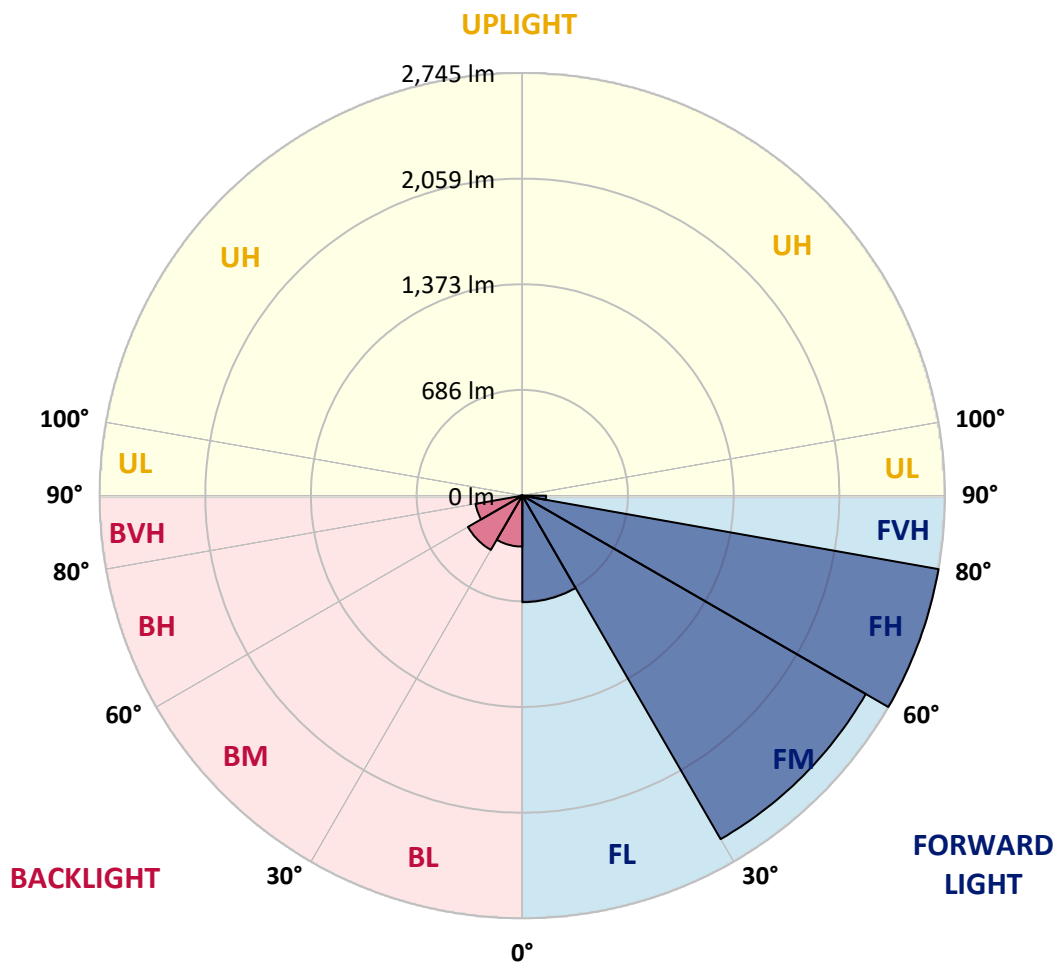
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.2	9.6			
FM (30°-60°)	2576.0	35.6			
FH (60°-80°)	2745.3	38.0			G2/5000
FVH (80°-90°)	154.4	2.1			G2/225
BL (0°-30°)	331.0	4.6	B1/500		
BM (30°-60°)	407.3	5.6	B1/1000		
BH (60°-80°)	308.0	4.3	B1/500		G1/500
BVH (80°-90°)	12.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	2071.3	2076.9	2075.3	2073.3	2070.1	2061.2	2046.7	2044.3	2035.0	2015.3	1990.7
5°	2039.4	2044.3	2044.7	2047.5	2051.5	2049.9	2039.4	2038.2	2024.5	1997.9	1956.8
7.5°	1930.2	1936.7	1950.8	1966.5	1980.6	1993.9	1997.1	1999.1	1990.7	1960.0	1905.2
10°	1807.3	1813.7	1820.2	1843.6	1878.2	1911.3	1938.7	1942.3	1944.3	1916.1	1849.2
12.5°	1671.1	1684.4	1698.1	1732.7	1779.1	1831.1	1879.4	1887.1	1900.8	1879.4	1800.8
15°	1555.4	1569.1	1588.8	1619.9	1675.9	1750.9	1819.0	1831.5	1858.5	1847.6	1755.7
17.5°	1475.2	1480.0	1493.7	1529.2	1589.6	1668.6	1759.7	1784.7	1827.8	1825.0	1717.0
20°	1411.9	1417.9	1426.4	1448.2	1511.0	1594.5	1704.5	1736.7	1795.2	1804.9	1678.7
22.5°	1385.3	1389.7	1388.5	1400.2	1442.9	1526.8	1648.5	1686.8	1766.2	1791.2	1643.2
25°	1386.9	1390.9	1384.9	1382.1	1407.5	1467.1	1590.0	1638.8	1742.8	1781.9	1611.0
27.5°	1413.9	1416.7	1405.4	1394.2	1396.2	1430.0	1541.7	1595.7	1723.0	1785.9	1584.0
30°	1450.2	1455.4	1448.2	1434.5	1419.5	1421.2	1510.6	1563.8	1713.8	1800.0	1571.1
32.5°	1496.9	1501.8	1498.5	1487.7	1468.3	1447.0	1503.0	1552.2	1714.6	1828.6	1568.3
35°	1546.1	1555.8	1561.0	1560.2	1544.5	1507.4	1533.2	1573.9	1733.9	1876.6	1584.8
37.5°	1601.7	1609.8	1632.4	1646.9	1632.4	1589.2	1601.3	1629.5	1776.7	1945.9	1621.1
40°	1655.7	1667.8	1700.9	1746.0	1740.4	1702.5	1705.3	1723.9	1852.0	2049.1	1692.0
42.5°	1712.2	1726.7	1784.3	1851.2	1864.5	1835.1	1842.8	1859.3	1959.2	2192.2	1813.7
45°	1784.7	1802.0	1873.0	1956.4	2008.8	1990.7	2012.4	2020.5	2102.7	2378.4	1974.1
47.5°	1878.2	1898.4	1985.8	2089.8	2164.0	2180.5	2218.4	2213.6	2280.5	2598.9	2182.1
50°	2035.8	2047.1	2129.7	2235.7	2337.7	2412.3	2453.4	2461.0	2500.9	2813.3	2414.7
52.5°	2223.2	2233.3	2293.0	2385.7	2513.4	2671.4	2773.0	2748.0	2757.7	3074.5	2686.7
55°	2434.0	2451.0	2488.8	2550.5	2716.2	2948.7	3152.7	3158.7	3051.5	3324.4	2947.5
57.5°	2597.3	2625.9	2690.8	2778.6	2988.6	3257.1	3531.1	3535.2	3398.1	3591.2	3235.3
60°	2515.0	2548.9	2697.2	2911.2	3346.1	3795.1	3983.4	3960.4	3735.5	3895.1	3586.4
62.5°	2160.4	2166.4	2382.0	2716.6	3456.2	4515.0	4656.5	4559.3	4185.7	4280.4	3943.1
65°	1398.2	1437.7	1608.6	2077.3	3094.6	4914.4	5835.8	5611.3	4816.9	4717.7	4241.7
67.5°	882.7	872.6	943.5	1186.2	2128.5	4562.5	6842.2	6806.7	5642.3	4993.8	4170.4
69°	731.9	743.2	767.4	909.3	1464.7	3895.5	6961.1	7206.2	6042.5	4972.0	3911.2
70°	663.8	669.1	694.5	806.1	1130.2	3262.7	6766.0	7195.3	6199.7	4881.0	3723.4
72.5°	526.8	526.4	569.9	670.7	844.8	1862.5	5555.7	6246.9	6024.0	4456.9	3076.5
75°	400.2	406.7	454.6	567.5	778.3	1017.7	3877.0	4810.8	4811.2	3520.3	1919.7
77.5°	288.6	292.6	348.6	476.4	733.2	825.0	2582.4	3450.5	3243.8	1613.0	603.4
80°	189.0	191.4	234.2	377.3	661.0	778.3	1531.2	2112.0	1530.0	428.0	199.5
82.5°	103.6	115.7	143.1	244.2	530.4	719.0	930.6	1068.9	573.9	190.6	104.0
85°	52.0	55.2	80.6	142.7	346.6	594.9	648.1	613.0	296.2	94.7	54.0
87.5°	15.3	19.3	33.5	55.2	140.7	309.9	360.7	323.7	114.1	34.3	11.3
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°	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	1980.6	1973.3	1941.1	1912.1	1885.5	1857.3	1833.5	1812.5	1814.5	1814.9	1793.6
5°	1935.5	1918.9	1857.7	1800.4	1752.1	1690.8	1638.4	1604.5	1587.6	1565.0	1573.1
7.5°	1874.2	1842.3	1757.3	1662.2	1573.1	1493.7	1407.5	1348.2	1310.3	1273.6	1278.5
10°	1810.9	1759.7	1636.0	1510.2	1395.0	1268.0	1158.0	1063.7	993.5	967.3	950.0
12.5°	1746.0	1678.7	1521.5	1354.3	1195.0	1043.1	887.1	786.0	708.6	667.5	672.7
15°	1686.8	1605.0	1402.2	1198.3	991.5	810.5	655.0	558.6	504.6	493.3	499.8
17.5°	1632.0	1524.7	1290.6	1046.7	805.3	607.8	492.1	437.7	415.9	409.9	409.5
20°	1575.5	1456.6	1165.2	884.7	627.6	471.2	403.9	378.5	374.4	376.9	377.3
22.5°	1518.3	1372.4	1036.2	723.9	499.8	385.3	353.1	346.2	349.4	355.1	355.9
25°	1465.5	1298.2	912.1	582.8	399.0	338.6	322.8	322.8	330.1	338.6	339.0
27.5°	1422.0	1226.5	788.4	462.7	334.1	304.7	299.5	302.3	312.4	318.8	319.2
30°	1386.1	1159.6	671.5	370.8	293.8	277.7	276.5	281.3	288.6	294.6	295.0
32.5°	1359.1	1100.7	562.3	311.6	266.0	257.1	256.7	260.4	264.4	266.0	267.6
35°	1348.6	1052.0	462.3	274.1	247.5	241.8	241.8	241.4	243.0	243.8	244.7
37.5°	1357.1	1014.5	384.9	249.9	233.8	229.7	227.3	224.9	224.1	224.1	224.5
40°	1392.9	994.7	327.3	234.2	224.1	218.1	213.6	210.8	208.0	208.8	209.6
42.5°	1469.1	998.4	288.2	223.7	215.6	207.2	200.7	197.5	195.5	197.9	197.5
45°	1590.4	1034.6	263.2	216.4	207.2	196.3	190.2	187.0	187.0	190.6	191.9
47.5°	1760.1	1104.0	249.9	210.8	200.7	187.8	181.8	179.4	180.2	186.2	186.6
50°	1967.3	1224.5	247.5	208.0	197.5	181.8	174.9	172.5	174.5	181.0	181.8
52.5°	2195.8	1379.6	259.2	208.4	194.7	178.1	169.3	165.7	167.7	172.9	174.5
55°	2466.7	1573.9	289.4	210.0	190.6	176.1	165.3	157.2	159.6	163.2	163.6
57.5°	2743.2	1819.0	342.6	210.4	187.4	172.5	158.4	147.9	147.9	150.3	151.5
60°	3080.9	2085.8	412.7	210.8	187.8	167.3	149.1	137.4	135.8	137.0	137.4
62.5°	3416.3	2309.1	424.4	209.6	191.9	162.0	139.1	127.0	124.1	123.7	122.9
65°	3564.2	2267.6	347.8	203.9	196.3	158.8	131.0	116.9	112.0	110.4	110.4
67.5°	3323.2	1918.1	261.6	196.3	193.5	155.6	123.3	108.4	102.8	99.6	99.6
69°	3096.6	1706.1	235.0	191.0	186.2	150.3	118.5	104.0	97.1	93.5	92.3
70°	2921.7	1560.2	223.7	186.6	179.4	144.3	114.9	100.8	93.1	89.1	88.3
72.5°	2331.7	1224.1	195.9	169.7	152.8	121.3	102.0	90.7	83.4	79.0	77.8
75°	1343.8	663.4	162.4	147.5	122.9	94.3	86.3	79.0	73.4	69.3	68.1
77.5°	413.5	256.3	117.7	116.5	90.3	73.0	68.9	66.1	62.1	57.6	56.8
80°	174.1	130.6	79.8	78.6	60.1	50.8	49.6	49.2	47.6	43.9	42.7
82.5°	95.5	73.8	55.6	48.4	36.3	29.4	30.6	31.0	29.8	26.2	23.8
85°	46.8	40.3	27.0	21.8	16.5	10.5	10.1	12.1	11.3	8.1	8.9
87.5°	9.3	11.3	7.3	3.2	1.6	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	0.0

(END OF REPORT)