

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: P478393

Luminaire Tested: **IFLD-S-SA3D-722-U-T4W**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

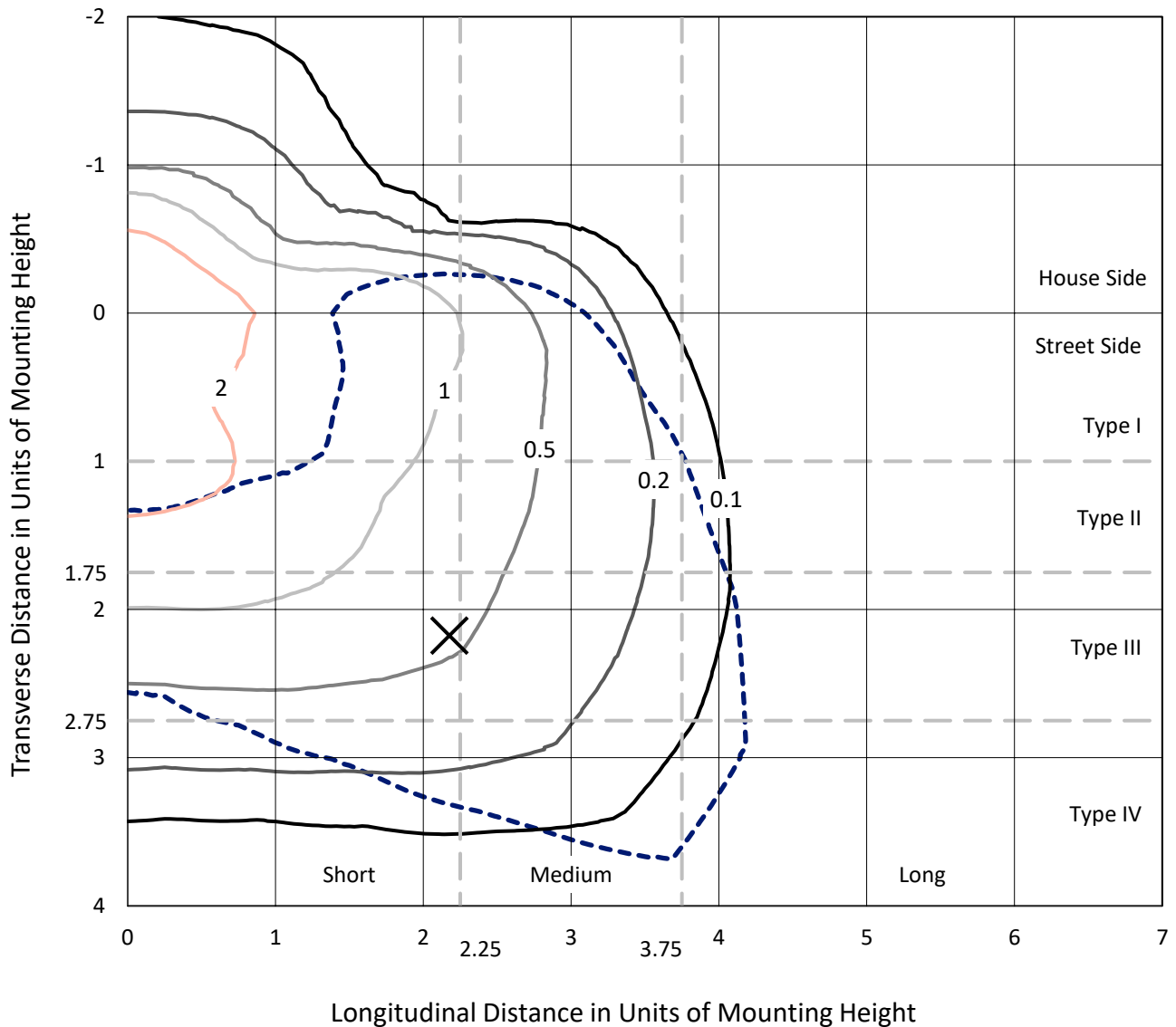
Lumens per Lamp: N/A
Luminaire Lumens: 17353 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
Input Voltage (V): 120
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

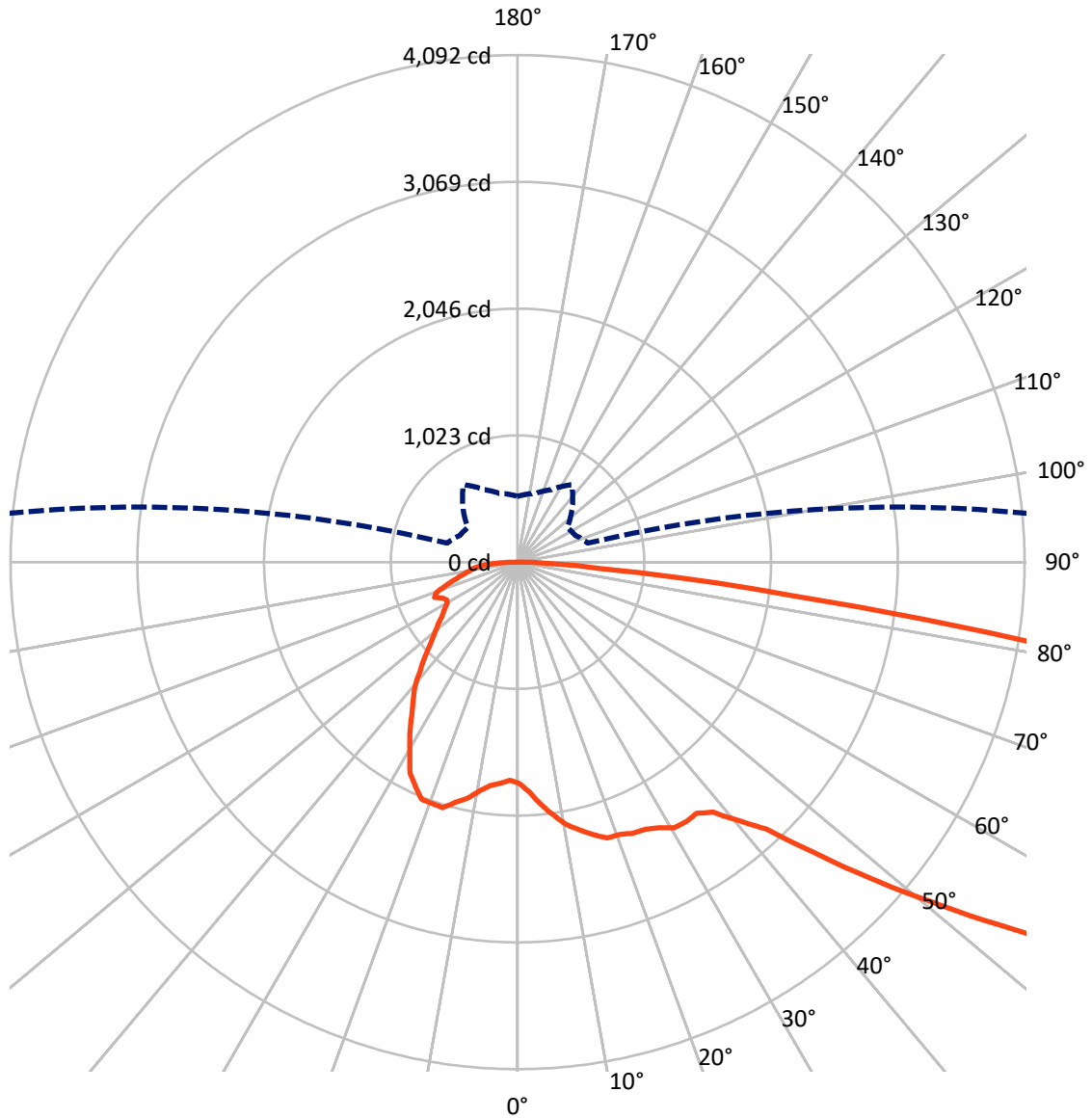
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3862.9	0.0	3862.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13490.1	0.0	13490.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	17353.0	0.0	17353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	1.1
10°-20°	608.4	3.5
20°-30°	1027.4	5.9
30°-40°	1421.8	8.2
40°-50°	2033.7	11.7
50°-60°	3280.2	18.9
60°-70°	4837.8	27.9
70°-80°	3513.1	20.2
80°-90°	447.8	2.6
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°	17353.0	100.0
0°-180°	17353.0	100.0

Coefficient of Utilization



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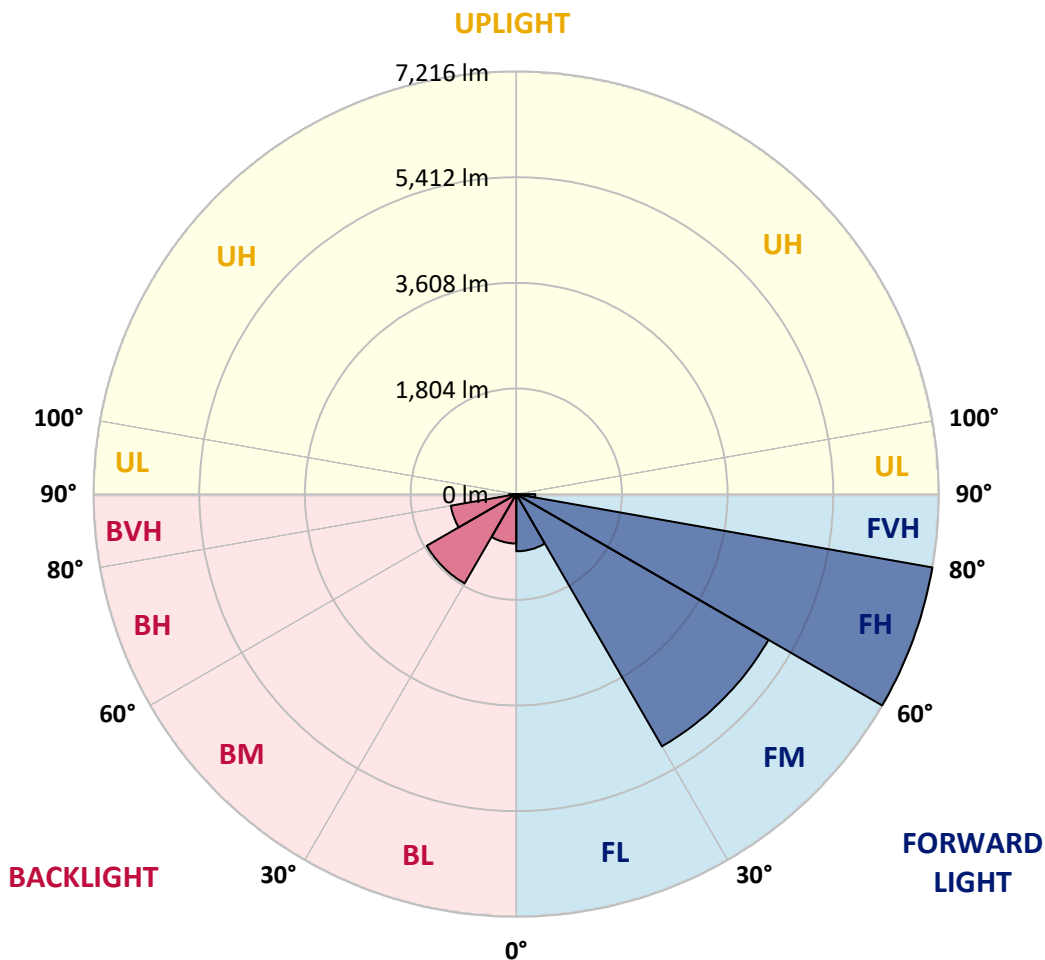
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.3	5.6			
FM (30°-60°)	4972.8	28.7			
FH (60°-80°)	7216.2	41.6			G3/7500
FVH (80°-90°)	326.0	1.9			G3/500
BL (0°-30°)	843.4	4.9	B2/1000		
BM (30°-60°)	1762.9	10.2	B2/2500		
BH (60°-80°)	1134.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	121.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0
2.5°	1882.5	1893.7	1882.5	1880.6	1861.9	1848.8	1860.0	1843.2	1824.5	1817.0	1800.1
5°	2054.6	2056.5	2035.9	2037.8	1998.5	1957.3	1964.8	1914.3	1860.0	1839.4	1805.8
7.5°	2230.5	2209.9	2180.0	2170.7	2108.9	2064.0	2058.4	2013.5	1929.3	1882.5	1835.7
10°	2344.7	2352.2	2303.5	2262.3	2209.9	2155.7	2153.8	2069.6	2021.0	1951.7	1891.8
12.5°	2445.7	2447.6	2406.4	2340.9	2275.4	2208.1	2217.4	2180.0	2097.7	2032.2	1972.3
15°	2524.3	2513.1	2468.2	2408.3	2339.1	2286.7	2281.1	2249.2	2180.0	2125.7	2026.6
17.5°	2546.8	2541.2	2496.3	2432.6	2365.3	2326.0	2340.9	2288.5	2260.5	2211.8	2116.4
20°	2503.7	2490.6	2483.2	2412.0	2363.4	2359.6	2346.6	2357.8	2311.0	2266.1	2196.9
22.5°	2425.1	2419.5	2415.8	2359.6	2337.2	2354.0	2376.5	2393.3	2385.8	2342.8	2264.2
25°	2344.7	2370.9	2346.6	2320.4	2352.2	2395.2	2389.6	2443.9	2443.9	2430.8	2365.3
27.5°	2400.8	2384.0	2365.3	2352.2	2363.4	2430.8	2427.0	2492.5	2516.8	2492.5	2417.7
30°	2541.2	2524.3	2470.1	2412.0	2397.1	2470.1	2488.8	2546.8	2558.0	2498.1	2434.5
32.5°	2805.0	2795.7	2709.6	2539.3	2447.6	2488.8	2498.1	2563.6	2554.3	2516.8	2490.6
35°	3196.1	3164.3	3044.5	2756.4	2554.3	2513.1	2488.8	2541.2	2576.7	2558.0	2533.7
37.5°	3624.6	3589.1	3441.2	3076.3	2747.0	2578.6	2559.9	2602.9	2644.1	2634.7	2584.2
40°	4034.4	4034.4	3901.6	3476.8	3033.3	2737.6	2741.4	2692.7	2730.2	2713.3	2722.7
42.5°	4438.6	4423.6	4369.4	3946.5	3340.2	3003.4	2943.5	2821.8	2889.2	2883.6	2896.7
45°	4848.4	4837.2	4822.2	4384.3	3779.9	3362.6	3330.8	3111.9	3173.6	3147.4	3203.6
47.5°	5175.9	5189.0	5189.0	4872.7	4249.6	3841.7	3794.9	3448.7	3566.6	3579.7	3592.8
50°	5454.7	5460.3	5454.7	5338.7	4773.6	4390.0	4294.5	3942.7	4060.6	4163.5	4283.3
52.5°	5840.2	5847.7	5821.5	5776.6	5484.6	4966.3	4859.6	4468.6	4709.9	4818.5	5033.7
55°	6315.5	6259.3	6210.7	6244.4	6167.6	5600.7	5490.3	5011.2	5374.2	5518.3	5948.7
57.5°	6403.4	6452.1	6575.6	6843.2	6953.6	6218.2	6154.5	5677.4	6124.6	6250.0	6968.5
60°	6714.1	6633.6	6936.7	7516.8	7640.3	7022.8	6957.3	6407.2	6871.2	7002.2	7909.8
62.5°	6918.0	6914.3	7363.4	8052.0	8332.7	7857.4	7724.5	7355.9	7677.7	7805.0	8935.2
65°	6858.1	6912.4	7709.6	8366.4	8910.9	8806.1	8729.4	8171.8	8596.5	8585.3	9603.3
67.5°	6311.7	6465.2	7490.6	8592.8	9771.7	9962.5	9938.2	9318.8	9343.2	9105.5	9900.8
70°	5553.9	5501.5	6564.4	8357.0	10202.1	11334.2	11328.6	10172.1	10014.9	9219.7	9047.5
72°	4266.5	4208.4	5082.3	7176.3	9975.6	11882.5	12050.9	10763.4	10007.5	8746.2	7473.8
72.5°	3873.5	3823.0	4693.1	6755.2	9724.9	12024.7	11946.1	10785.9	9928.9	8523.6	6981.6
75°	1783.3	1725.3	2344.7	4135.5	7586.1	10654.9	10922.5	10093.5	8671.4	6785.2	4182.2
77.5°	531.4	514.6	754.1	1669.2	4408.7	7849.9	7952.8	7616.0	6053.5	3716.3	1551.3
80°	295.7	297.5	389.2	625.0	1938.6	4537.8	4908.3	4704.3	2969.7	1227.5	516.5
82.5°	164.7	174.0	243.3	370.5	890.7	2082.7	2241.8	2161.3	1074.1	576.3	282.6
85°	86.1	89.8	127.2	198.4	505.2	658.7	677.4	726.0	557.6	393.0	151.6
87.5°	33.7	33.7	46.8	82.3	187.1	204.0	183.4	222.7	320.0	254.5	74.9
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°	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0	1787.0
2.5°	1815.1	1800.1	1798.3	1773.9	1781.4	1760.8	1762.7	1759.0	1760.8	1757.1	1747.7
5°	1805.8	1794.5	1762.7	1783.3	1764.6	1790.8	1811.4	1803.9	1809.5	1807.6	1809.5
7.5°	1818.9	1803.9	1800.1	1788.9	1805.8	1817.0	1833.8	1880.6	1876.9	1882.5	1893.7
10°	1858.2	1841.3	1830.1	1846.9	1837.6	1873.1	1891.8	1916.2	1959.2	1961.1	1938.6
12.5°	1934.9	1923.6	1901.2	1904.9	1936.7	1948.0	1959.2	1974.2	2002.2	1996.6	2017.2
15°	2022.8	1998.5	1985.4	1981.7	1989.1	2002.2	2000.4	2015.3	2030.3	2043.4	2037.8
17.5°	2086.4	2054.6	2058.4	2077.1	2075.2	2071.5	2047.1	2039.7	2047.1	2054.6	2050.9
20°	2151.9	2155.7	2127.6	2110.8	2103.3	2065.9	2047.1	2024.7	2002.2	2013.5	2030.3
22.5°	2234.3	2217.4	2176.3	2125.7	2088.3	2065.9	2007.9	1968.6	1968.6	1979.8	1974.2
25°	2327.8	2292.3	2221.2	2129.5	2082.7	1987.3	1946.1	1940.5	1925.5	1942.4	1949.8
27.5°	2400.8	2369.0	2271.7	2116.4	1987.3	1910.5	1886.2	1878.7	1903.1	1904.9	1934.9
30°	2430.8	2421.4	2279.2	2082.7	1890.0	1766.5	1751.5	1785.2	1811.4	1850.7	1852.5
32.5°	2470.1	2473.8	2290.4	2004.1	1762.7	1639.2	1616.8	1657.9	1732.8	1764.6	1788.9
35°	2535.5	2554.3	2281.1	1906.8	1628.0	1510.1	1506.4	1517.6	1590.6	1646.7	1678.5
37.5°	2649.7	2646.0	2279.2	1790.8	1521.3	1397.8	1367.9	1371.6	1420.3	1467.1	1461.4
40°	2803.1	2788.2	2273.6	1639.2	1382.9	1302.4	1251.9	1233.2	1229.4	1216.3	1220.1
42.5°	3012.7	2982.8	2271.7	1485.8	1257.5	1171.4	1135.9	1087.2	1051.6	984.3	988.0
45°	3304.6	3252.2	2223.0	1341.7	1134.0	1062.9	1008.6	973.1	896.3	812.1	812.1
47.5°	3755.6	3585.3	2224.9	1182.6	1014.2	956.2	918.8	857.0	774.7	707.3	699.8
50°	4419.9	4030.7	2161.3	1057.3	916.9	877.6	838.3	767.2	688.6	641.8	647.5
52.5°	5276.9	4695.0	2159.4	945.0	840.2	812.1	769.1	705.5	647.5	617.5	606.3
55°	6298.6	5574.5	2226.8	853.3	761.6	746.6	727.9	675.5	619.4	593.2	591.3
57.5°	7344.7	6433.4	2335.3	787.8	694.2	705.5	692.4	651.2	606.3	576.3	572.6
60°	8274.7	7114.5	2116.4	709.2	634.4	658.7	677.4	641.8	617.5	615.6	602.5
62.5°	8976.4	7406.4	1609.3	649.3	602.5	647.5	698.0	720.4	709.2	724.2	726.0
65°	9232.8	7230.5	1107.8	617.5	578.2	673.7	785.9	778.4	712.9	684.9	699.8
67.5°	8873.5	6517.6	821.5	580.1	561.4	727.9	836.4	742.9	643.7	640.0	628.7
70°	7631.0	5523.9	669.9	540.8	533.3	698.0	814.0	688.6	606.3	582.0	570.7
72°	6079.7	4302.0	587.6	512.7	488.4	623.1	761.6	645.6	574.5	544.5	531.4
72.5°	5550.1	3987.6	576.3	499.6	479.0	606.3	735.4	632.5	567.0	540.8	520.2
75°	3044.5	2041.5	507.1	458.5	404.2	524.0	681.1	593.2	535.2	497.8	494.0
77.5°	1132.1	791.5	437.9	406.1	349.9	452.8	619.4	563.2	486.5	439.7	430.4
80°	434.1	417.3	357.4	342.4	293.8	396.7	570.7	505.2	413.5	366.8	351.8
82.5°	263.8	243.3	271.3	267.6	224.6	361.2	537.0	473.4	366.8	297.5	288.2
85°	144.1	144.1	189.0	181.5	157.2	288.2	406.1	314.4	232.0	190.9	194.6
87.5°	63.6	74.9	101.0	95.4	86.1	162.8	198.4	166.5	116.0	78.6	84.2
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)