

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: P478078

Luminaire Tested: **IFLD-S-SA3A-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478078  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

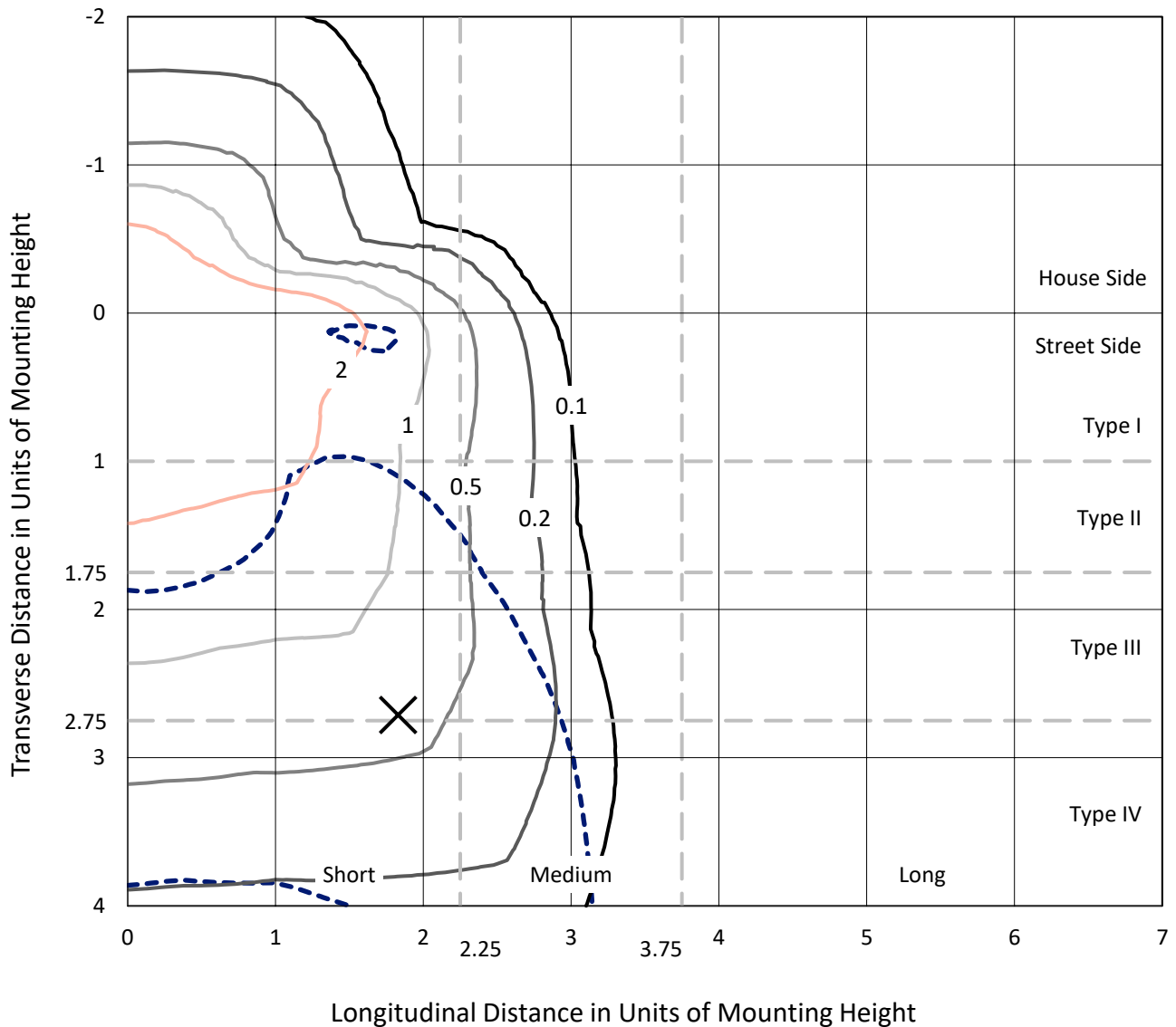
Lumens per Lamp: N/A  
Luminaire Lumens: 12835.4 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8  
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

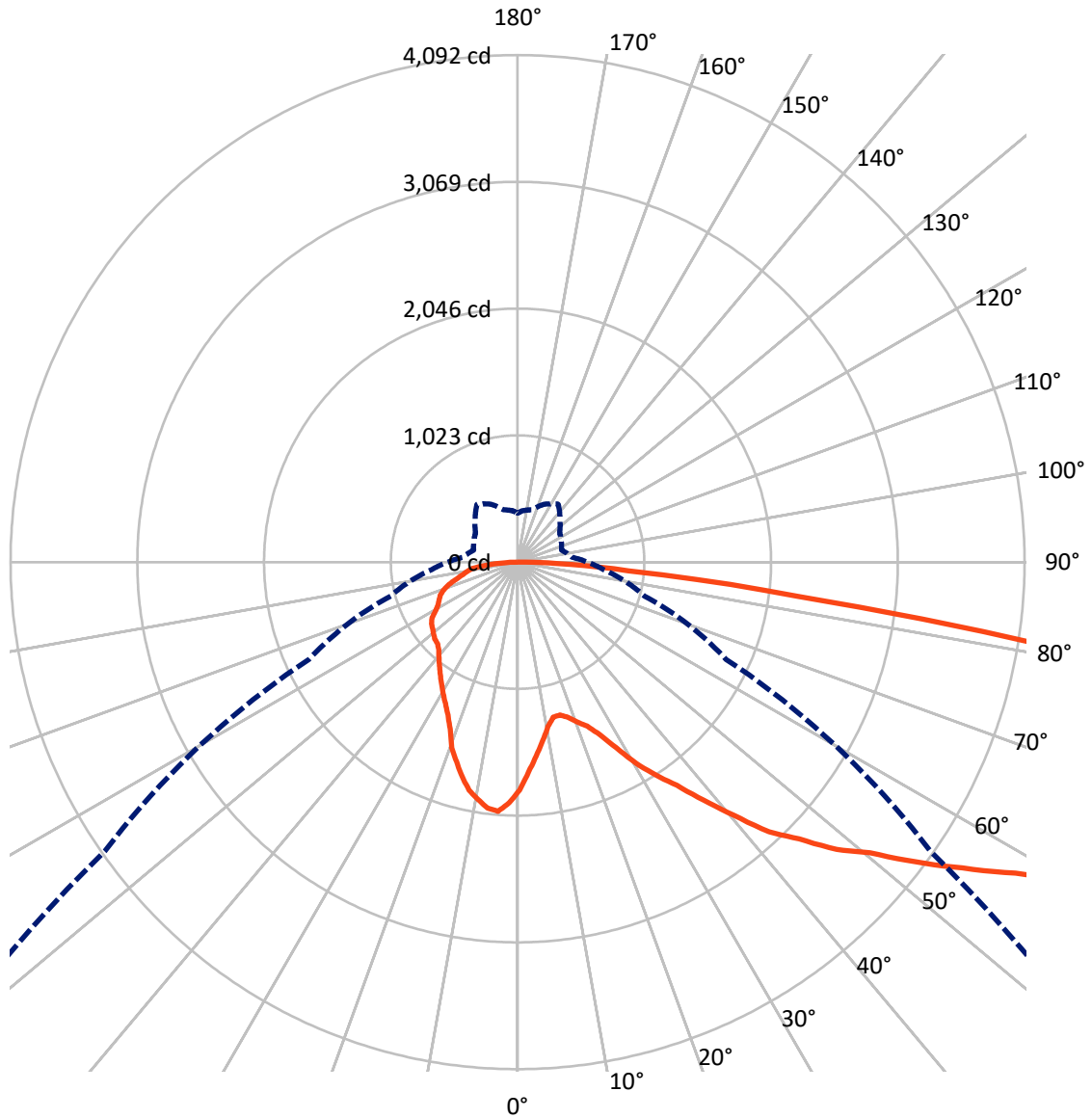
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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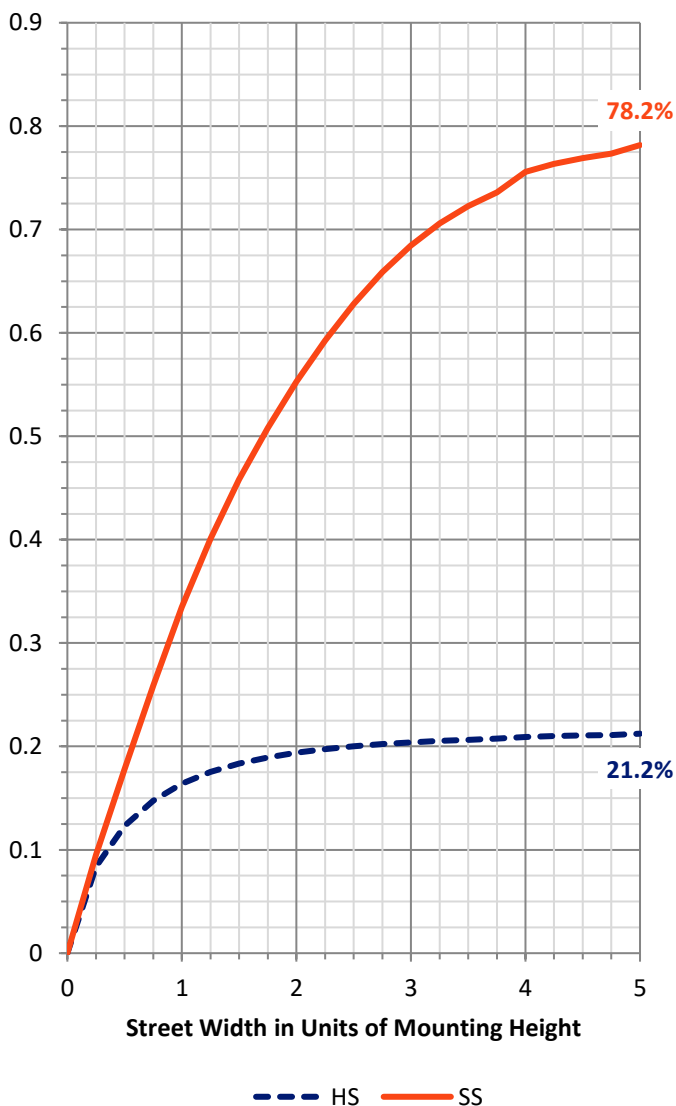
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2772.6	0.0	2772.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	10062.8	0.0	10062.8
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	12835.4	0.0	12835.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	1.3
10°-20°	475.3	3.7
20°-30°	782.3	6.1
30°-40°	1169.9	9.1
40°-50°	1734.3	13.5
50°-60°	2499.3	19.5
60°-70°	3189.5	24.8
70°-80°	2482.0	19.3
80°-90°	333.0	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°	12835.4	100.0
0°-180°	12835.4	100.0

**Coefficient of Utilization**



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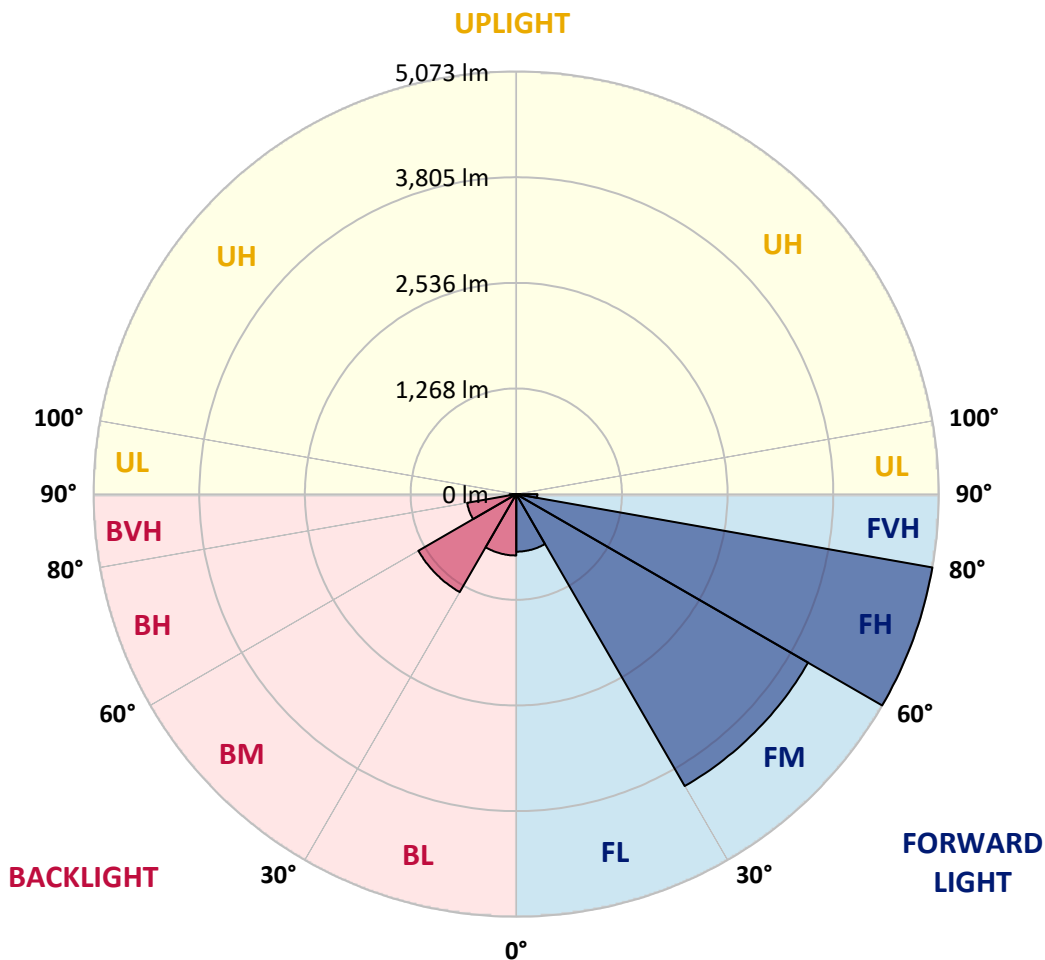
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.8	5.4			
FM (30°-60°)	4045.8	31.5			
FH (60°-80°)	5072.8	39.5			G3/7500
FVH (80°-90°)	253.4	2.0			G3/500
BL (0°-30°)	736.7	5.7	B2/1000		
BM (30°-60°)	1357.8	10.6	B2/2500		
BH (60°-80°)	598.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	79.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1648.8	1654.2	1671.9	1675.9	1694.9	1684.1	1707.2	1747.9	1770.9	1804.9	1845.6
5°	1518.5	1495.5	1506.3	1548.4	1570.1	1575.5	1600.0	1669.2	1712.6	1762.8	1838.8
7.5°	1365.2	1361.1	1382.8	1410.0	1453.4	1457.5	1511.7	1572.8	1662.4	1773.7	1863.2
10°	1260.7	1278.3	1290.5	1319.0	1348.9	1348.9	1418.1	1524.0	1625.7	1732.9	1868.6
12.5°	1255.3	1244.4	1247.1	1262.0	1283.8	1310.9	1376.0	1471.0	1600.0	1724.8	1891.7
15°	1272.9	1277.0	1252.6	1271.5	1279.7	1289.2	1361.1	1468.3	1583.7	1753.3	1931.1
17.5°	1366.5	1343.5	1305.5	1287.8	1316.3	1316.3	1365.2	1449.3	1586.4	1768.2	1988.1
20°	1439.8	1439.8	1377.4	1358.4	1378.8	1374.7	1408.6	1471.0	1600.0	1798.1	2051.8
22.5°	1563.3	1581.0	1477.8	1438.5	1437.1	1448.0	1477.8	1530.7	1638.0	1840.1	2112.9
25°	1741.1	1745.2	1625.7	1585.0	1541.6	1559.2	1564.7	1617.6	1671.9	1889.0	2182.1
27.5°	1939.2	1936.5	1826.6	1724.8	1696.3	1700.4	1670.5	1705.8	1722.1	1903.9	2281.2
30°	2159.1	2134.6	2051.8	1908.0	1884.9	1859.1	1794.0	1792.7	1826.6	1988.1	2418.2
32.5°	2302.9	2271.7	2214.7	2111.6	2047.8	2050.5	1947.4	1946.0	1916.1	2080.3	2537.7
35°	2444.0	2396.5	2381.6	2275.8	2212.0	2218.8	2136.0	2125.1	2070.8	2220.1	2734.4
37.5°	2613.7	2571.6	2594.7	2514.6	2435.9	2403.3	2365.3	2351.8	2281.2	2416.9	3003.1
40°	2800.9	2787.4	2772.4	2733.1	2685.6	2688.3	2647.6	2634.0	2529.5	2654.4	3261.0
42.5°	3053.3	3001.8	2924.4	2950.2	2974.6	3000.4	2986.9	2951.6	2843.0	2895.9	3548.7
45°	3288.1	3220.3	3077.8	3085.9	3186.3	3206.7	3370.9	3366.8	3148.3	3202.6	3875.7
47.5°	3446.9	3415.7	3330.2	3320.7	3464.5	3463.2	3759.0	3759.0	3470.0	3508.0	4227.2
50°	3683.0	3601.6	3565.0	3612.4	3685.7	3735.9	4155.3	4181.0	3786.1	3826.9	4687.2
52.5°	3959.8	3858.1	3765.8	3887.9	4018.2	4050.8	4547.4	4536.6	4029.1	4197.3	5226.0
55°	4189.2	4137.6	4073.8	4144.4	4357.5	4398.2	4941.0	4840.6	4272.0	4504.0	5485.2
57.5°	4456.5	4487.7	4501.3	4483.7	4737.4	4801.2	5390.2	5102.5	4481.0	4710.3	5637.2
60°	4859.6	4878.6	4896.2	4938.3	5207.0	5296.5	5745.7	5430.9	4612.6	4829.7	5649.4
62.5°	5473.0	5399.7	5439.0	5584.2	5800.0	5901.8	6269.5	5661.6	4713.0	4901.6	5250.4
65°	6174.5	6075.5	6034.8	6222.0	6781.1	6699.7	6923.6	5833.9	4567.8	4632.9	4452.5
67.5°	6885.6	6896.5	6792.0	7167.9	7853.2	7853.2	7531.6	5916.7	4174.3	3754.9	3122.6
70°	7450.2	7484.1	7541.1	8269.8	9355.5	9519.7	8284.7	5577.4	3372.3	2499.7	1707.2
72.5°	7442.0	7340.2	7632.0	8974.1	10720.6	10583.6	8442.2	4410.4	2104.8	1224.1	783.0
73°	7275.1	7189.6	7508.5	8967.3	10776.3	10647.4	8326.8	4065.7	1856.4	1061.2	696.2
75°	5941.1	5786.4	6329.2	8121.9	9970.2	10069.3	7074.3	2651.7	1017.8	654.1	489.9
77.5°	2708.7	2776.5	3483.5	5448.5	7683.6	7800.3	4650.6	1146.7	557.7	458.7	361.0
80°	869.9	913.3	1355.7	2708.7	4816.1	5026.5	2149.6	521.1	397.6	351.5	270.1
82.5°	332.5	331.1	568.6	1126.3	2282.5	2416.9	785.7	317.5	295.8	259.2	191.3
85°	116.7	122.1	214.4	445.1	898.4	940.4	272.8	176.4	204.9	173.7	109.9
87.5°	40.7	42.1	76.0	161.5	309.4	327.0	76.0	70.6	101.8	100.4	55.6
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°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1859.1	1871.4	1875.4	1924.3	1924.3	1924.3	1943.3	1943.3	1937.9	1924.3	1956.9
5°	1867.3	1889.0	1931.1	1973.1	1984.0	1993.5	2019.3	1997.6	2005.7	1992.1	2004.4
7.5°	1890.4	1920.2	1998.9	2024.7	2007.1	2027.4	2000.3	1985.4	1970.4	1975.9	1956.9
10°	1929.7	1967.7	2004.4	2051.8	2017.9	1997.6	1941.9	1928.4	1880.9	1864.6	1879.5
12.5°	1978.6	2024.7	2087.1	2069.5	2004.4	1946.0	1886.3	1829.3	1800.8	1760.1	1770.9
15°	2027.4	2080.3	2089.8	2060.0	1978.6	1905.3	1796.7	1716.7	1688.2	1651.5	1670.5
17.5°	2080.3	2130.6	2114.3	2036.9	1927.0	1815.7	1692.2	1613.5	1553.8	1530.7	1530.7
20°	2159.1	2183.5	2157.7	1998.9	1864.6	1718.0	1598.6	1509.0	1449.3	1439.8	1424.9
22.5°	2220.1	2259.5	2144.1	1943.3	1773.7	1590.5	1453.4	1419.5	1401.8	1386.9	1367.9
25°	2298.8	2297.5	2119.7	1891.7	1617.6	1438.5	1355.7	1353.0	1344.8	1339.4	1365.2
27.5°	2373.5	2342.3	2091.2	1764.2	1456.1	1323.1	1278.3	1308.2	1320.4	1312.3	1323.1
30°	2491.5	2440.0	2050.5	1628.5	1313.6	1206.4	1214.6	1255.3	1275.6	1287.8	1271.5
32.5°	2616.4	2537.7	1966.4	1487.3	1187.4	1133.1	1152.1	1194.2	1218.6	1232.2	1247.1
35°	2796.9	2613.7	1880.9	1302.8	1096.5	1088.3	1099.2	1122.3	1157.6	1167.1	1171.1
37.5°	3019.4	2729.0	1765.5	1154.8	1025.9	1035.4	1046.3	1054.4	1055.8	1073.4	1066.6
40°	3242.0	2826.7	1597.2	1013.7	952.6	1004.2	998.8	983.9	971.6	955.4	951.3
42.5°	3437.4	2912.2	1410.0	894.3	887.5	971.6	954.0	916.0	887.5	875.3	854.9
45°	3657.2	3033.0	1221.3	819.7	837.3	932.3	926.9	868.5	831.9	788.4	783.0
47.5°	3942.2	3159.2	1040.9	742.3	789.8	917.4	920.1	845.4	792.5	734.2	726.0
50°	4307.3	3341.0	903.8	709.7	761.3	895.6	899.7	814.2	745.0	685.3	679.9
52.5°	4657.4	3527.0	789.8	659.5	742.3	869.9	879.4	785.7	705.7	631.0	635.1
55°	4833.8	3459.1	692.1	622.9	698.9	827.8	863.1	765.4	646.0	594.4	593.0
57.5°	4873.1	3292.2	614.7	584.9	662.2	783.0	835.9	704.3	618.8	575.4	570.0
60°	4744.2	3000.4	553.7	544.2	616.1	736.9	773.5	671.7	591.7	556.4	548.2
62.5°	4426.7	2697.8	511.6	525.2	576.7	686.7	734.2	648.7	565.9	541.5	523.8
65°	3630.1	2218.8	477.7	488.5	536.0	637.8	709.7	622.9	542.8	519.7	518.4
67.5°	2514.6	1529.4	450.5	470.9	503.5	602.5	685.3	594.4	513.0	504.8	494.0
70°	1287.8	815.6	415.3	431.5	468.2	557.7	641.9	564.5	481.8	480.4	466.8
72.5°	652.7	477.7	374.5	399.0	424.8	499.4	587.6	525.2	442.4	427.5	405.8
73°	564.5	442.4	367.8	389.5	413.9	483.1	571.3	515.7	437.0	415.3	394.9
75°	411.2	348.8	329.8	351.5	370.5	435.6	517.0	472.3	401.7	378.6	359.6
77.5°	308.0	268.7	274.1	298.5	314.8	375.9	460.0	427.5	363.7	332.5	324.3
80°	226.6	204.9	226.6	249.7	261.9	331.1	419.3	370.5	306.7	271.4	264.6
82.5°	161.5	149.3	175.1	190.0	195.4	274.1	377.3	295.8	232.1	185.9	171.0
85°	92.3	90.9	118.1	116.7	120.8	160.1	248.3	196.8	149.3	114.0	111.3
87.5°	40.7	44.8	59.7	47.5	50.2	76.0	105.8	73.3	61.1	33.9	25.8
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)