

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: P478037

Luminaire Tested: **IFLD-S-SA2D-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478037  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

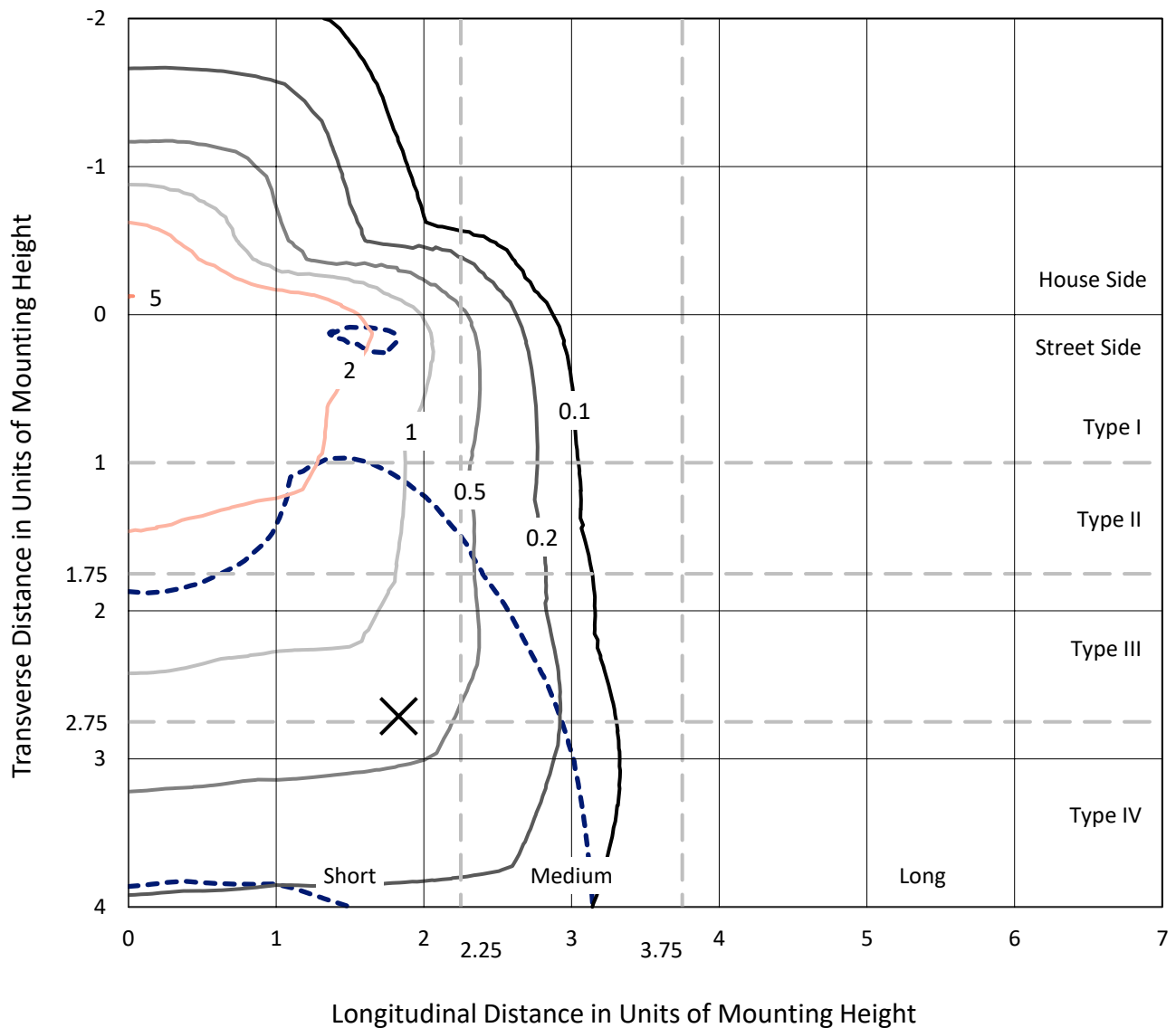
Lumens per Lamp: N/A  
Luminaire Lumens: 13399.7 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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

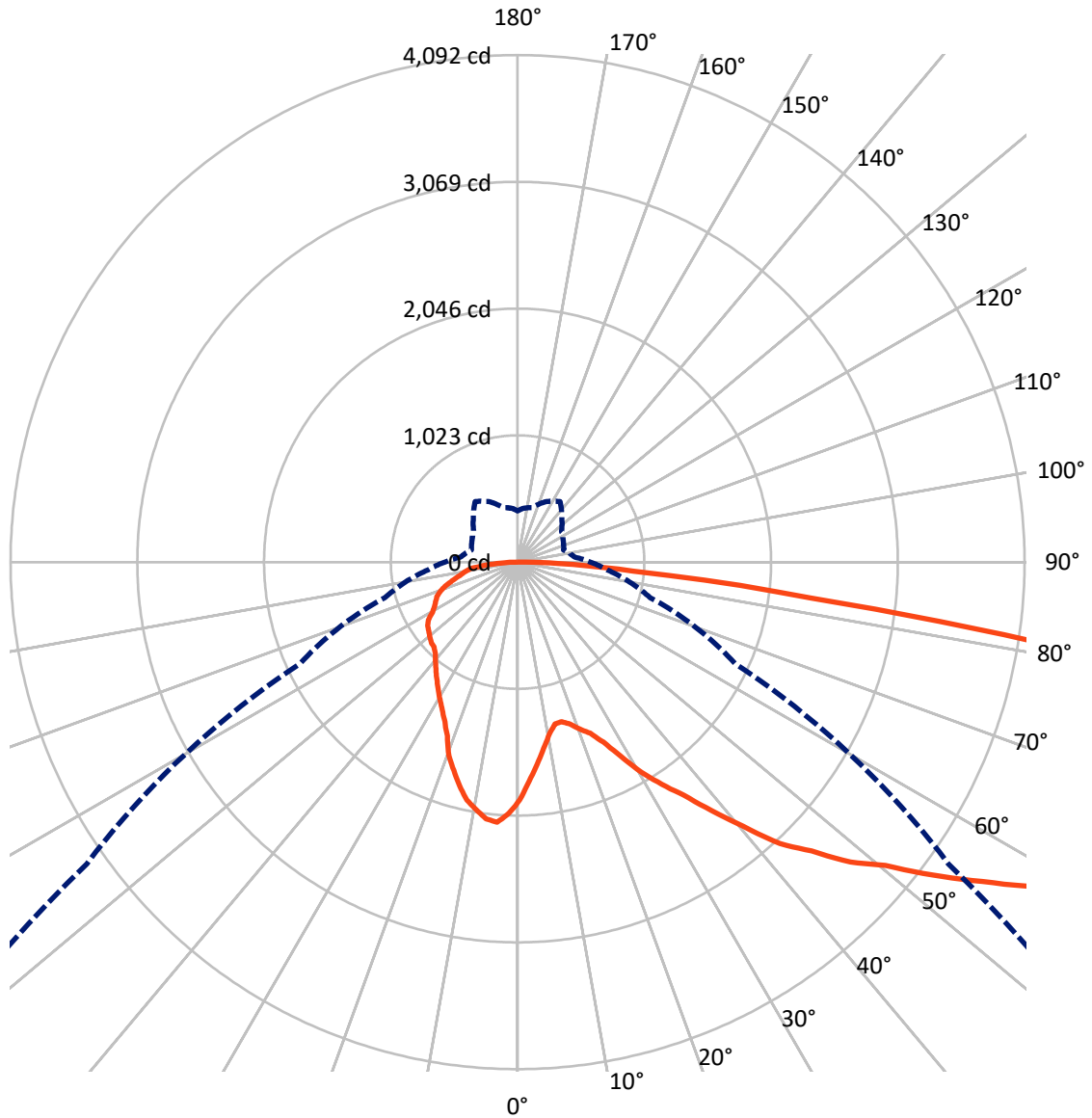
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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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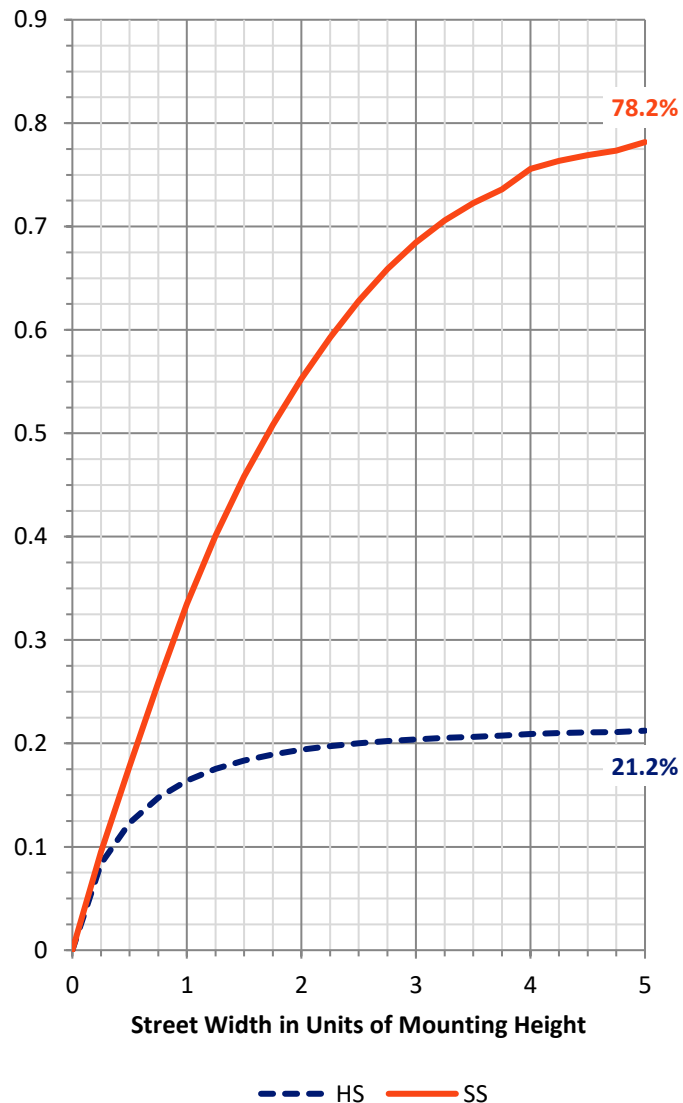
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2894.5	0.0	2894.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	10505.2	0.0	10505.2
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	13399.7	0.0	13399.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.3	1.3
10°-20°	496.2	3.7
20°-30°	816.7	6.1
30°-40°	1221.3	9.1
40°-50°	1810.6	13.5
50°-60°	2609.2	19.5
60°-70°	3329.7	24.8
70°-80°	2591.1	19.3
80°-90°	347.6	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°	13399.7	100.0
0°-180°	13399.7	100.0

**Coefficient of Utilization**



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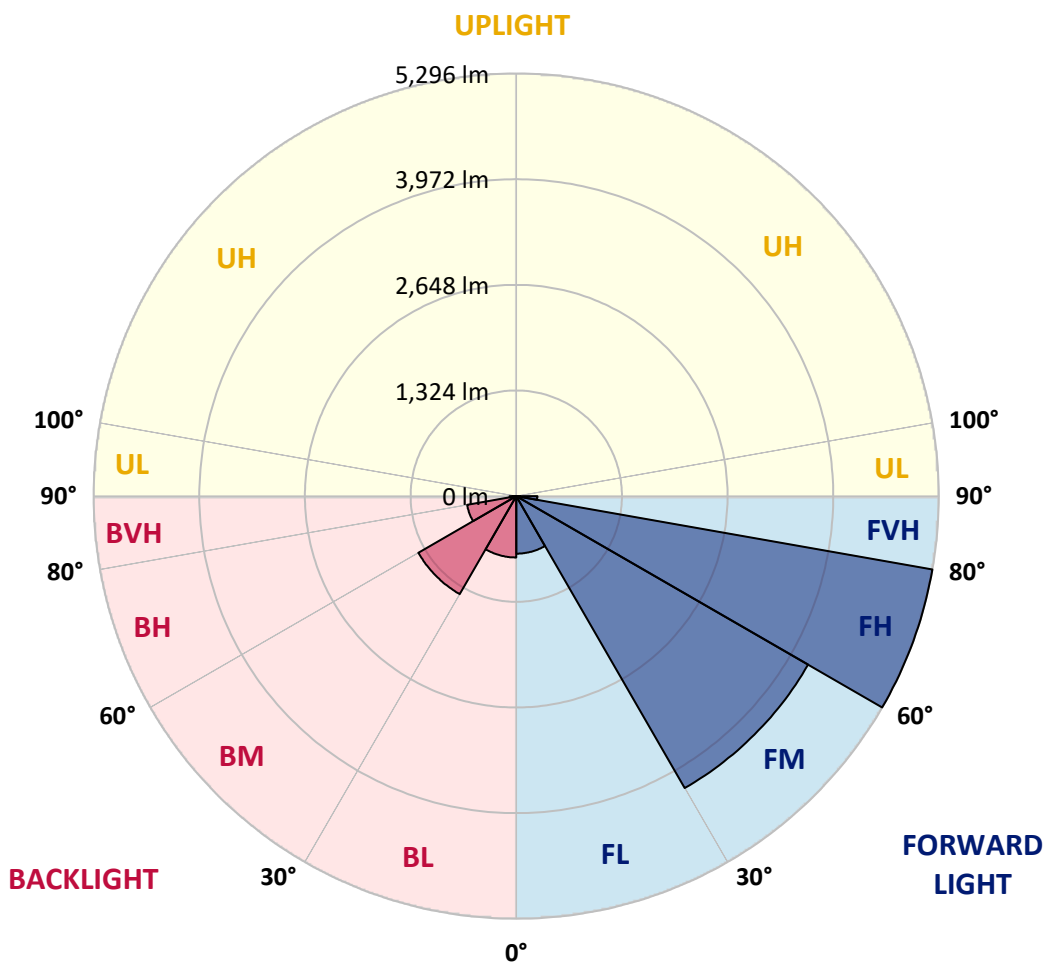
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.1	5.4			
FM (30°-60°)	4223.7	31.5			
FH (60°-80°)	5295.8	39.5			G3/7500
FVH (80°-90°)	264.6	2.0			G3/500
BL (0°-30°)	769.0	5.7	B2/1000		
BM (30°-60°)	1417.4	10.6	B2/2500		
BH (60°-80°)	625.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	83.0	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°	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1
2.5°	1721.3	1727.0	1745.4	1749.6	1769.5	1758.1	1782.2	1824.7	1848.8	1884.2	1926.7
5°	1585.3	1561.2	1572.5	1616.5	1639.1	1644.8	1670.3	1742.5	1787.9	1840.3	1919.6
7.5°	1425.2	1421.0	1443.6	1472.0	1517.3	1521.5	1578.2	1642.0	1735.5	1851.6	1945.1
10°	1316.1	1334.5	1347.3	1377.0	1408.2	1408.2	1480.5	1591.0	1697.2	1809.1	1950.8
12.5°	1310.5	1299.1	1302.0	1317.5	1340.2	1368.5	1436.5	1535.7	1670.3	1800.6	1974.9
15°	1328.9	1333.1	1307.6	1327.5	1336.0	1345.9	1421.0	1532.9	1653.3	1830.4	2016.0
17.5°	1426.6	1402.5	1362.9	1344.5	1374.2	1374.2	1425.2	1513.0	1656.1	1846.0	2075.5
20°	1503.1	1503.1	1438.0	1418.1	1439.4	1435.1	1470.5	1535.7	1670.3	1877.1	2142.1
22.5°	1632.0	1650.5	1542.8	1501.7	1500.3	1511.6	1542.8	1598.0	1710.0	1921.1	2205.8
25°	1817.6	1821.9	1697.2	1654.7	1609.4	1627.8	1633.5	1688.7	1745.4	1972.1	2278.1
27.5°	2024.5	2021.6	1906.9	1800.6	1770.9	1775.1	1744.0	1780.8	1797.8	1987.6	2381.5
30°	2254.0	2228.5	2142.1	1991.9	1967.8	1940.9	1872.9	1871.5	1906.9	2075.5	2524.6
32.5°	2404.1	2371.6	2312.1	2204.4	2137.8	2140.6	2033.0	2031.6	2000.4	2171.8	2649.2
35°	2551.5	2501.9	2486.3	2375.8	2309.2	2316.3	2229.9	2218.6	2161.9	2317.7	2854.7
37.5°	2728.6	2684.7	2708.7	2625.2	2543.0	2509.0	2469.3	2455.2	2381.5	2523.2	3135.2
40°	2924.1	2909.9	2894.3	2853.2	2803.7	2806.5	2764.0	2749.8	2640.7	2771.1	3404.3
42.5°	3187.6	3133.8	3053.0	3079.9	3105.4	3132.3	3118.2	3081.3	2968.0	3023.2	3704.7
45°	3432.7	3361.8	3213.1	3221.6	3326.4	3347.7	3519.1	3514.8	3286.8	3343.4	4046.1
47.5°	3598.4	3565.8	3476.6	3466.7	3616.8	3615.4	3924.3	3924.3	3622.5	3662.2	4413.0
50°	3844.9	3759.9	3721.7	3771.3	3847.8	3900.2	4338.0	4364.9	3952.6	3995.1	4893.3
52.5°	4133.9	4027.7	3931.4	4058.9	4194.9	4228.9	4747.4	4736.0	4206.2	4381.9	5455.7
55°	4373.4	4319.5	4252.9	4326.6	4549.0	4591.5	5158.2	5053.4	4459.8	4702.0	5726.3
57.5°	4652.5	4685.0	4699.2	4680.8	4945.7	5012.3	5627.2	5326.8	4678.0	4917.4	5885.0
60°	5073.2	5093.1	5111.5	5155.4	5435.9	5529.4	5998.3	5669.7	4815.4	5042.1	5897.7
62.5°	5713.6	5637.1	5678.2	5829.7	6055.0	6161.3	6545.2	5910.5	4920.2	5117.1	5481.2
65°	6446.0	6342.6	6300.1	6495.6	7079.3	6994.3	7228.0	6090.4	4768.6	4836.6	4648.2
67.5°	7188.4	7199.7	7090.6	7483.0	8198.5	8198.5	7862.7	6176.8	4357.8	3920.0	3259.8
70°	7777.7	7813.1	7872.6	8633.4	9766.8	9938.2	8649.0	5822.7	3520.5	2609.6	1782.2
72.5°	7769.2	7663.0	7967.6	9368.7	11192.0	11048.9	8813.3	4604.3	2197.3	1277.9	817.4
73°	7595.0	7505.7	7838.6	9361.6	11250.1	11115.5	8692.9	4244.4	1938.1	1107.9	726.8
75°	6202.3	6040.8	6607.5	8479.0	10408.5	10512.0	7385.3	2768.2	1062.5	682.9	511.4
77.5°	2827.7	2898.6	3636.7	5688.1	8021.4	8143.2	4855.0	1197.1	582.3	478.8	376.8
80°	908.1	953.4	1415.3	2827.7	5027.9	5247.5	2244.1	544.0	415.1	366.9	281.9
82.5°	347.1	345.7	593.6	1175.9	2382.9	2523.2	820.3	331.5	308.8	270.6	199.8
85°	121.8	127.5	223.8	464.7	937.9	981.8	284.8	184.2	213.9	181.3	114.8
87.5°	42.5	43.9	79.3	168.6	323.0	341.4	79.3	73.7	106.3	104.8	58.1
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°	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1
2.5°	1940.9	1953.6	1957.9	2008.9	2008.9	2008.9	2028.7	2028.7	2023.1	2008.9	2042.9
5°	1949.4	1972.1	2016.0	2059.9	2071.2	2081.1	2108.1	2085.4	2093.9	2079.7	2092.5
7.5°	1973.5	2004.6	2086.8	2113.7	2095.3	2116.6	2088.2	2072.6	2057.1	2062.7	2042.9
10°	2014.6	2054.2	2092.5	2142.1	2106.6	2085.4	2027.3	2013.1	1963.6	1946.6	1962.1
12.5°	2065.6	2113.7	2178.9	2160.5	2092.5	2031.6	1969.2	1909.7	1880.0	1837.5	1848.8
15°	2116.6	2171.8	2181.7	2150.6	2065.6	1989.1	1875.7	1792.1	1762.4	1724.1	1744.0
17.5°	2171.8	2224.2	2207.2	2126.5	2011.7	1895.6	1766.6	1684.5	1622.1	1598.0	1598.0
20°	2254.0	2279.5	2252.6	2086.8	1946.6	1793.5	1668.9	1575.4	1513.0	1503.1	1487.5
22.5°	2317.7	2358.8	2238.4	2028.7	1851.6	1660.4	1517.3	1481.9	1463.5	1447.9	1428.0
25°	2399.9	2398.5	2212.9	1974.9	1688.7	1501.7	1415.3	1412.5	1404.0	1398.3	1425.2
27.5°	2477.8	2445.2	2183.1	1841.7	1520.1	1381.3	1334.5	1365.7	1378.5	1370.0	1381.3
30°	2601.1	2547.2	2140.6	1700.0	1371.4	1259.5	1268.0	1310.5	1331.7	1344.5	1327.5
32.5°	2731.4	2649.2	2052.8	1552.7	1239.6	1182.9	1202.8	1246.7	1272.2	1286.4	1302.0
35°	2919.8	2728.6	1963.6	1360.0	1144.7	1136.2	1147.5	1171.6	1208.4	1218.4	1222.6
37.5°	3152.2	2849.0	1843.1	1205.6	1071.0	1080.9	1092.3	1100.8	1102.2	1120.6	1113.5
40°	3384.5	2951.0	1667.5	1058.3	994.5	1048.4	1042.7	1027.1	1014.4	997.4	993.1
42.5°	3588.5	3040.2	1472.0	933.6	926.5	1014.4	995.9	956.3	926.5	913.8	892.5
45°	3818.0	3166.3	1275.0	855.7	874.1	973.3	967.6	906.7	868.4	823.1	817.4
47.5°	4115.5	3298.1	1086.6	774.9	824.5	957.7	960.5	882.6	827.4	766.4	757.9
50°	4496.6	3487.9	943.5	740.9	794.8	935.0	939.3	850.0	777.8	715.4	709.8
52.5°	4862.1	3682.0	824.5	688.5	774.9	908.1	918.0	820.3	736.7	658.8	663.0
55°	5046.3	3611.2	722.5	650.3	729.6	864.2	901.0	799.0	674.4	620.5	619.1
57.5°	5087.4	3436.9	641.8	610.6	691.4	817.4	872.7	735.3	646.0	600.7	595.0
60°	4952.8	3132.3	578.0	568.1	643.2	769.3	807.5	701.3	617.7	580.8	572.3
62.5°	4621.3	2816.4	534.1	548.3	602.1	716.9	766.4	677.2	590.8	565.3	546.8
65°	3789.7	2316.3	498.7	510.0	559.6	665.9	740.9	650.3	566.7	542.6	541.2
67.5°	2625.2	1596.6	470.3	491.6	525.6	629.0	715.4	620.5	535.5	527.0	515.7
70°	1344.5	851.4	433.5	450.5	488.8	582.3	670.1	589.3	502.9	501.5	487.3
72.5°	681.4	498.7	391.0	416.5	443.4	521.3	613.4	548.3	461.8	446.3	423.6
73°	589.3	461.8	383.9	406.6	432.1	504.3	596.4	538.3	456.2	433.5	412.3
75°	429.3	364.1	344.3	366.9	386.8	454.8	539.8	493.0	419.3	395.3	375.4
77.5°	321.6	280.5	286.2	311.7	328.7	392.4	480.3	446.3	379.7	347.1	338.6
80°	236.6	213.9	236.6	260.7	273.4	345.7	437.8	386.8	320.2	283.3	276.3
82.5°	168.6	155.8	182.8	198.3	204.0	286.2	393.8	308.8	242.3	194.1	178.5
85°	96.3	94.9	123.3	121.8	126.1	167.2	259.3	205.4	155.8	119.0	116.2
87.5°	42.5	46.8	62.3	49.6	52.4	79.3	110.5	76.5	63.8	35.4	26.9
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)