

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: P480608

Luminaire Tested: **IFLD-S-SA2A-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480608  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

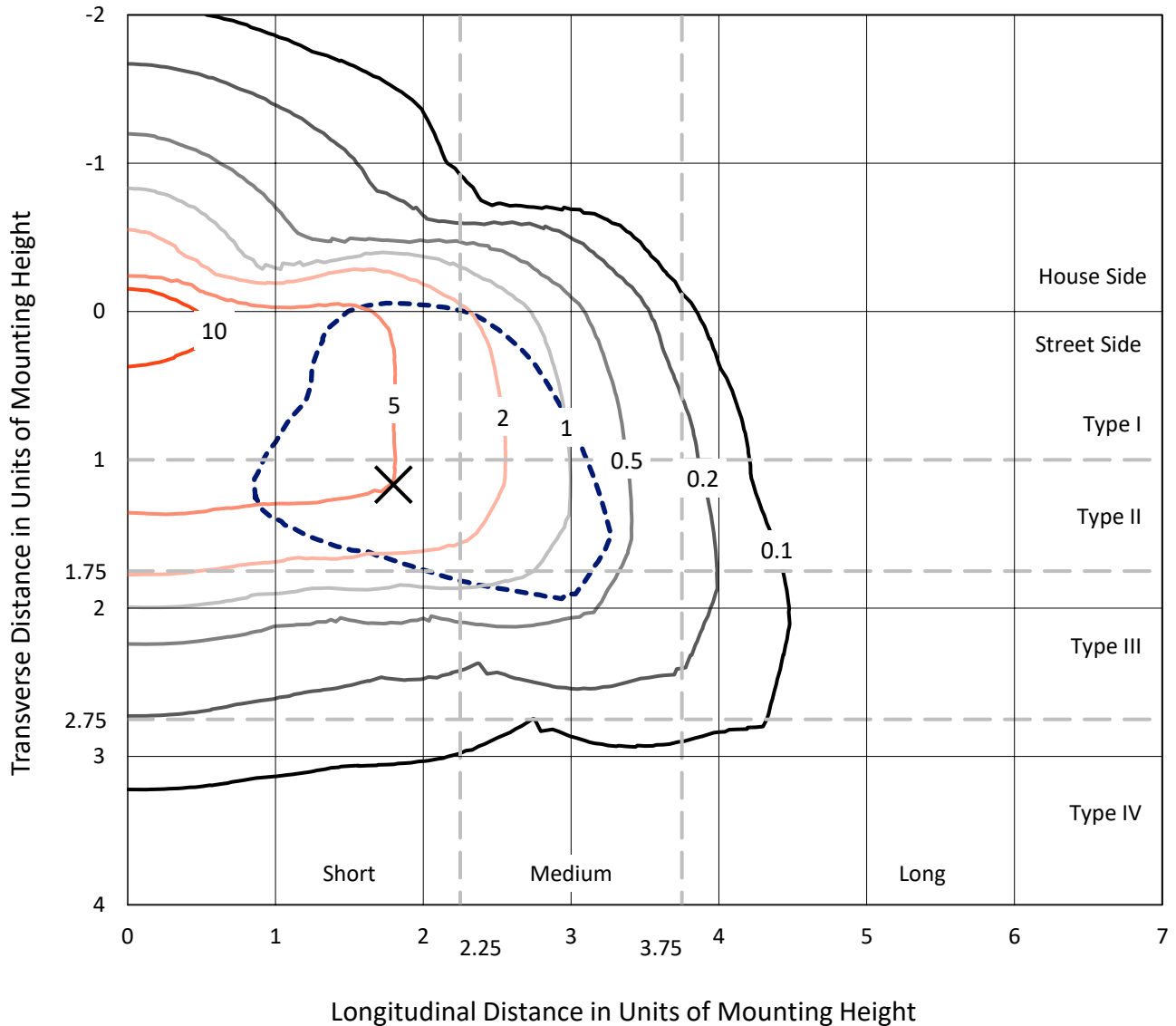
Lumens per Lamp: N/A  
Luminaire Lumens: 6696.5 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

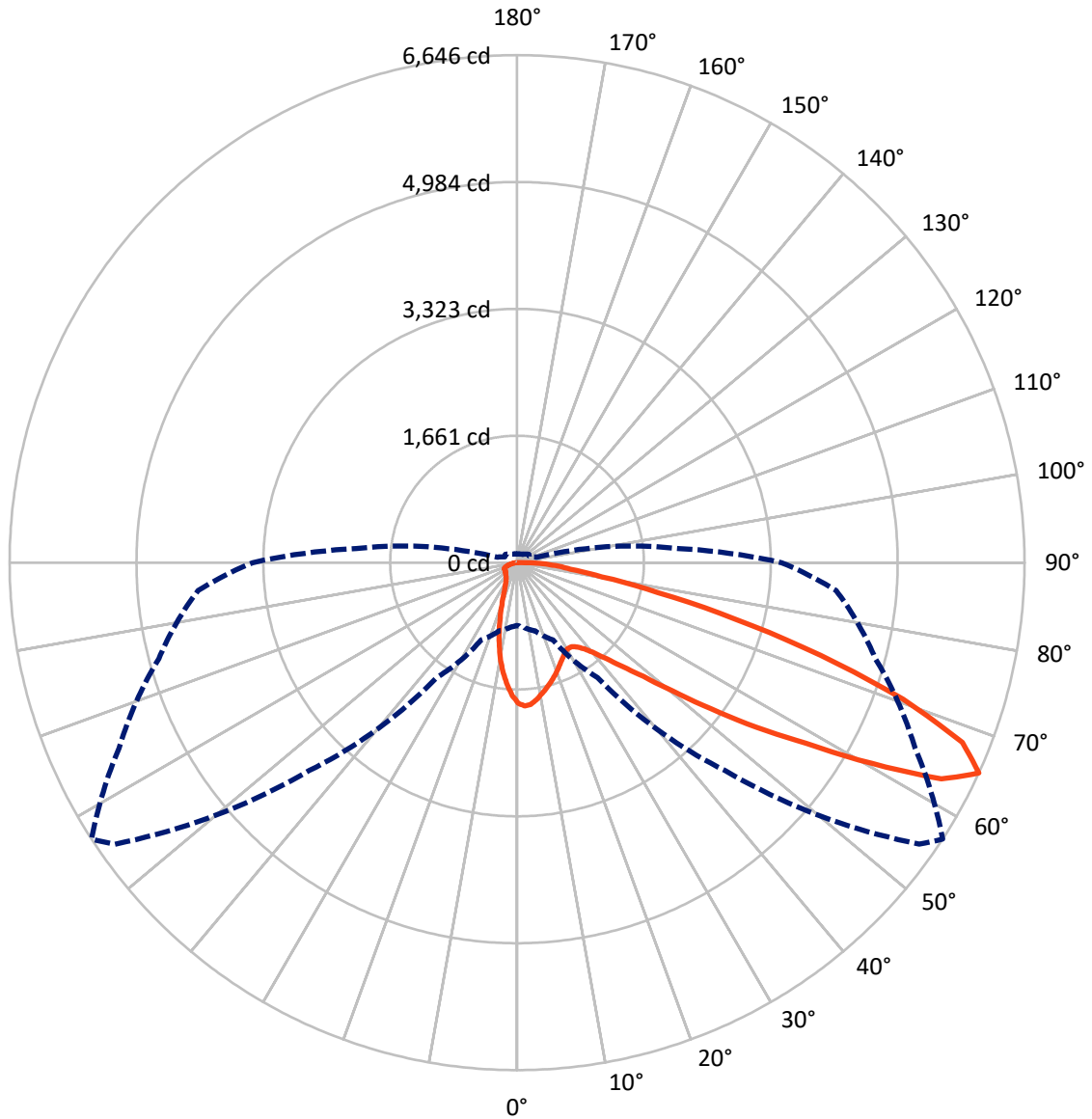
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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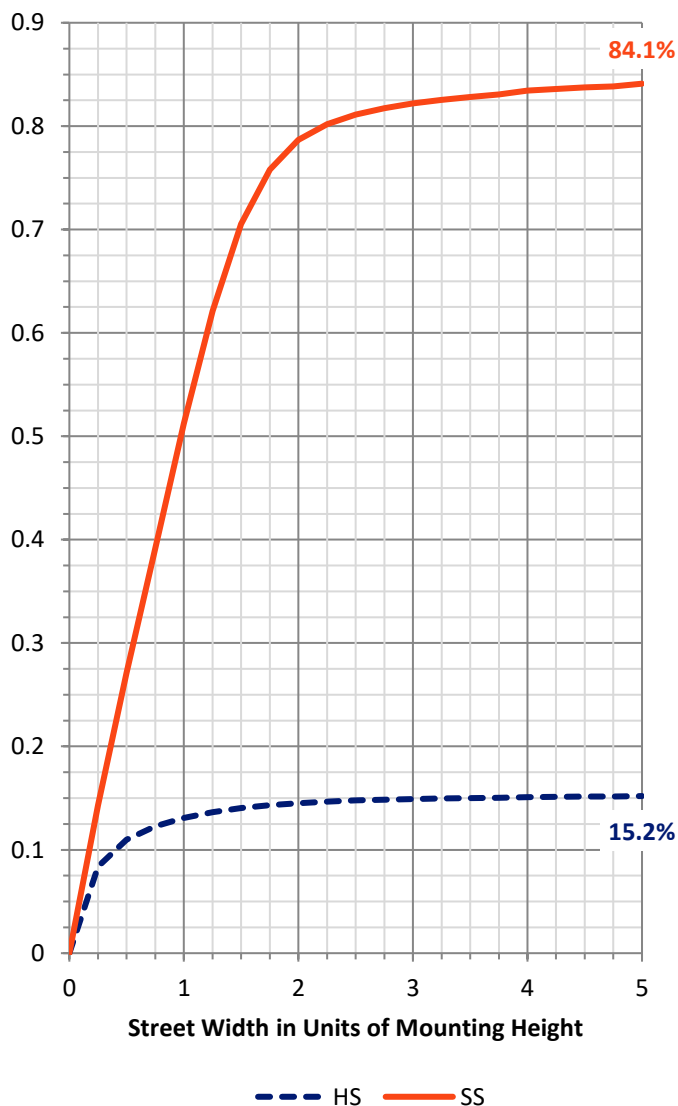
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1027.0	0.0	1027.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	5669.5	0.0	5669.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	6696.5	0.0	6696.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	2.3
10°-20°	331.9	5.0
20°-30°	429.1	6.4
30°-40°	577.4	8.6
40°-50°	920.7	13.7
50°-60°	1626.2	24.3
60°-70°	1789.0	26.7
70°-80°	748.4	11.2
80°-90°	119.6	1.8
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°	6696.5	100.0
0°-180°	6696.5	100.0

**Coefficient of Utilization**



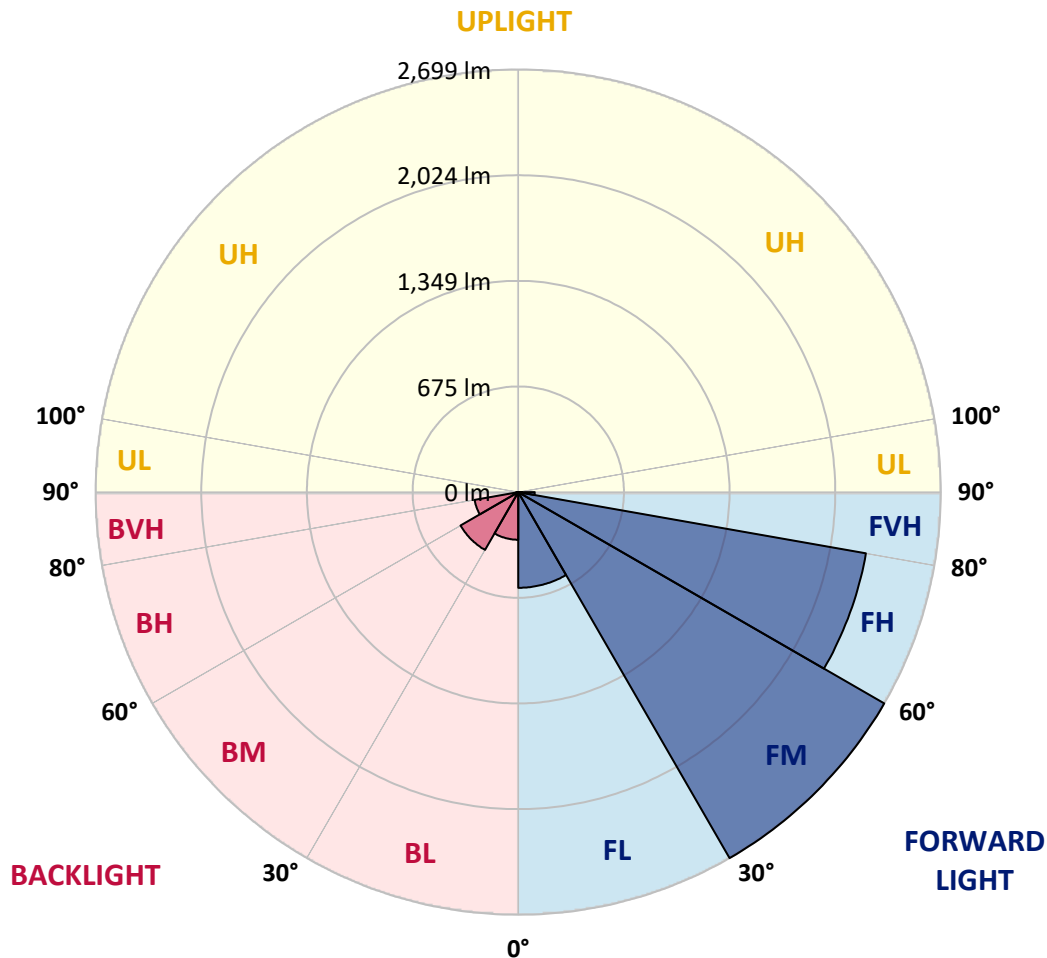
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.0	9.1			
FM (30°-60°)	2698.7	40.3			
FH (60°-80°)	2254.2	33.7			G2/5000
FVH (80°-90°)	105.6	1.6			G2/225
BL (0°-30°)	304.1	4.5	B1/500		
BM (30°-60°)	425.6	6.4	B1/1000		
BH (60°-80°)	283.2	4.2	B1/500		G1/500
BVH (80°-90°)	14.0	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°	57°	65°	75°	85°
0°	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4
2.5°	1891.2	1894.2	1894.2	1900.2	1879.9	1889.7	1888.2	1879.1	1882.1	1866.3	1850.5
5°	1837.7	1835.4	1847.5	1849.0	1864.8	1869.3	1873.1	1867.1	1868.6	1833.9	1818.8
7.5°	1700.6	1699.8	1720.1	1737.5	1770.6	1801.5	1821.9	1815.8	1824.1	1802.3	1766.9
10°	1537.8	1555.1	1576.2	1593.6	1654.6	1693.8	1746.5	1751.8	1783.4	1778.2	1714.1
12.5°	1415.7	1423.3	1439.1	1488.8	1544.6	1609.4	1684.7	1691.5	1722.4	1737.5	1681.7
15°	1315.5	1322.3	1342.7	1379.6	1442.1	1519.0	1614.7	1632.0	1693.8	1699.0	1639.5
17.5°	1242.4	1247.7	1261.3	1298.2	1349.4	1448.1	1538.6	1569.4	1650.8	1676.4	1595.8
20°	1213.8	1202.5	1210.1	1233.4	1284.6	1360.7	1477.5	1504.7	1608.6	1659.1	1554.4
22.5°	1201.0	1191.2	1195.7	1194.2	1234.9	1289.2	1412.0	1440.6	1568.7	1638.8	1517.5
25°	1210.8	1210.8	1206.3	1202.5	1207.0	1242.4	1341.2	1385.6	1515.2	1621.4	1479.8
27.5°	1263.5	1243.2	1245.5	1229.6	1225.1	1225.1	1309.5	1335.9	1497.9	1611.6	1448.9
30°	1297.5	1307.2	1308.0	1284.6	1261.3	1219.1	1280.1	1305.7	1483.6	1623.7	1430.8
32.5°	1384.1	1379.6	1366.8	1362.2	1327.6	1280.1	1294.4	1311.8	1475.3	1650.8	1436.1
35°	1470.7	1468.5	1469.2	1467.0	1430.8	1360.7	1332.9	1356.2	1490.3	1698.3	1454.2
37.5°	1560.4	1566.4	1592.1	1592.1	1553.6	1477.5	1440.6	1433.8	1545.3	1775.9	1497.1
40°	1650.1	1665.1	1697.5	1748.8	1694.5	1623.7	1564.2	1553.6	1611.6	1879.9	1600.3
42.5°	1736.0	1760.8	1824.9	1901.0	1882.9	1812.1	1732.9	1720.9	1748.0	2034.3	1744.3
45°	1846.0	1867.1	1968.0	2084.8	2109.7	2047.1	1954.5	1944.7	1943.2	2260.4	1942.4
47.5°	2013.2	2035.8	2136.8	2254.3	2331.2	2341.0	2237.0	2226.5	2190.3	2565.5	2232.5
50°	2222.7	2259.6	2344.8	2481.9	2593.4	2698.1	2668.7	2637.9	2567.0	2920.4	2600.2
52.5°	2375.6	2420.9	2536.1	2711.7	2908.3	3074.9	3180.3	3180.3	3017.6	3309.9	3042.5
55°	2416.3	2443.5	2588.9	2842.8	3179.6	3600.8	3821.5	3805.0	3554.1	3719.8	3557.1
57.5°	2254.3	2289.8	2466.1	2732.0	3322.0	4092.8	4458.2	4462.0	4140.2	4196.0	4064.9
60°	1808.3	1819.6	2027.6	2383.2	3184.9	4489.1	5327.7	5342.0	4807.1	4620.2	4323.3
62.5°	1250.0	1286.2	1442.9	1754.8	2638.6	4444.6	6166.3	6237.1	5341.3	4844.0	4364.0
65°	822.8	844.6	928.3	1118.1	1836.9	3852.4	6427.0	6645.5	5749.6	4856.8	4193.7
67.5°	596.7	600.5	625.4	723.3	1103.8	2770.5	5981.7	6289.9	5902.6	4749.8	3794.4
70°	482.2	485.2	494.3	556.8	712.8	1733.7	4878.6	5361.6	5443.7	4242.7	3056.0
72.5°	391.8	395.6	406.9	465.6	587.7	964.4	3567.6	4156.1	4428.1	3138.9	2031.3
75°	308.2	311.2	338.3	396.3	552.3	662.3	2366.6	2943.0	2979.9	1834.7	950.9
77.5°	211.0	216.2	249.4	336.0	519.9	579.4	1475.3	1885.1	1691.5	718.0	327.0
80°	134.1	141.6	161.2	254.7	459.6	553.0	917.7	1125.7	740.6	245.6	157.5
82.5°	79.1	86.6	106.2	165.0	360.9	513.1	646.5	704.5	347.3	125.8	94.9
85°	43.7	49.0	64.0	99.5	211.7	455.8	517.6	505.6	198.9	67.1	59.5
87.5°	14.3	16.6	23.4	39.9	87.4	214.7	310.4	291.6	103.2	30.9	23.4
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°	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4
2.5°	1839.9	1837.7	1803.8	1778.2	1734.5	1698.3	1684.0	1664.4	1663.6	1649.3	1645.5
5°	1795.5	1772.1	1720.1	1670.4	1592.8	1540.8	1493.4	1460.2	1446.6	1417.3	1410.5
7.5°	1738.2	1707.3	1627.5	1534.0	1442.9	1361.5	1287.7	1213.8	1172.4	1158.1	1142.2
10°	1678.7	1624.5	1506.2	1401.4	1274.1	1149.0	1033.0	929.0	872.5	832.6	815.2
12.5°	1631.2	1558.9	1408.2	1251.5	1083.5	916.2	781.3	672.1	608.0	577.9	564.3
15°	1577.7	1482.0	1301.2	1103.1	893.6	703.7	571.9	486.0	460.4	446.0	443.8
17.5°	1521.2	1410.5	1185.2	956.9	708.2	529.7	444.5	409.9	398.6	392.6	389.5
20°	1468.5	1346.4	1066.1	794.1	554.5	424.9	385.0	366.9	366.2	369.2	368.4
22.5°	1393.9	1262.8	948.6	643.5	443.0	369.9	344.3	339.8	344.3	348.1	349.6
25°	1351.7	1194.2	817.5	510.8	366.2	328.5	320.2	318.7	325.5	330.0	329.3
27.5°	1308.0	1123.4	695.4	409.1	321.0	299.1	297.6	299.1	305.9	312.7	311.9
30°	1274.1	1066.9	580.9	342.1	286.3	278.0	276.5	278.0	281.8	282.5	282.5
32.5°	1246.2	999.8	483.7	296.9	265.2	258.4	259.9	259.2	259.9	260.7	261.4
35°	1229.6	959.9	403.9	269.0	247.9	242.6	241.9	239.6	240.4	241.1	240.4
37.5°	1265.1	940.3	340.6	249.4	235.8	231.3	229.8	228.3	226.0	226.0	226.0
40°	1318.5	929.8	302.1	236.6	226.8	221.5	217.0	215.5	215.5	216.2	217.0
42.5°	1424.8	947.1	275.8	226.8	215.5	209.5	204.9	205.7	208.0	210.2	208.7
45°	1578.5	999.8	263.7	219.3	208.7	200.4	197.4	196.7	198.9	202.7	205.7
47.5°	1779.7	1082.0	259.2	212.5	204.2	192.9	189.1	191.4	194.4	199.7	197.4
50°	2108.9	1266.6	263.0	206.4	197.4	189.1	184.6	182.3	184.6	188.4	189.9
52.5°	2539.1	1601.8	277.3	203.4	192.9	186.1	178.6	174.8	177.1	180.1	180.1
55°	3053.8	2059.9	317.2	199.7	185.4	181.6	173.3	165.8	167.3	167.3	166.5
57.5°	3507.3	2405.8	364.7	194.4	180.8	175.6	165.0	156.0	154.5	155.2	156.0
60°	3710.8	2497.7	387.3	192.9	180.8	168.0	153.7	144.7	142.4	140.9	140.9
62.5°	3675.4	2338.7	341.3	186.1	185.4	162.0	143.2	133.4	130.3	127.3	128.1
65°	3461.4	2111.9	269.0	177.1	186.1	158.2	132.6	122.8	117.5	113.8	113.0
67.5°	3070.3	1803.0	213.2	170.3	178.6	151.4	123.6	112.3	107.7	104.0	102.5
70°	2402.0	1413.5	185.4	161.2	160.5	134.9	113.0	103.2	96.4	91.9	91.9
72.5°	1557.4	893.6	159.0	143.2	138.6	113.0	97.9	91.9	86.6	82.9	82.9
75°	705.2	415.2	128.1	119.8	113.0	90.4	82.9	79.9	75.3	71.6	71.6
77.5°	253.2	177.1	95.7	94.2	84.4	70.1	67.1	64.8	61.8	58.0	58.0
80°	141.6	112.3	71.6	68.6	58.8	52.0	48.2	48.2	46.7	44.5	43.7
82.5°	89.7	73.1	52.7	46.0	38.4	34.7	33.2	32.4	31.6	28.6	27.9
85°	56.5	49.7	34.7	27.1	22.6	17.3	16.6	15.8	14.3	12.8	12.8
87.5°	25.6	28.6	13.6	8.3	6.0	3.8	2.3	0.8	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)