

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: P484274

Luminaire Tested: **IFLD-S-SA2A-727-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484274  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

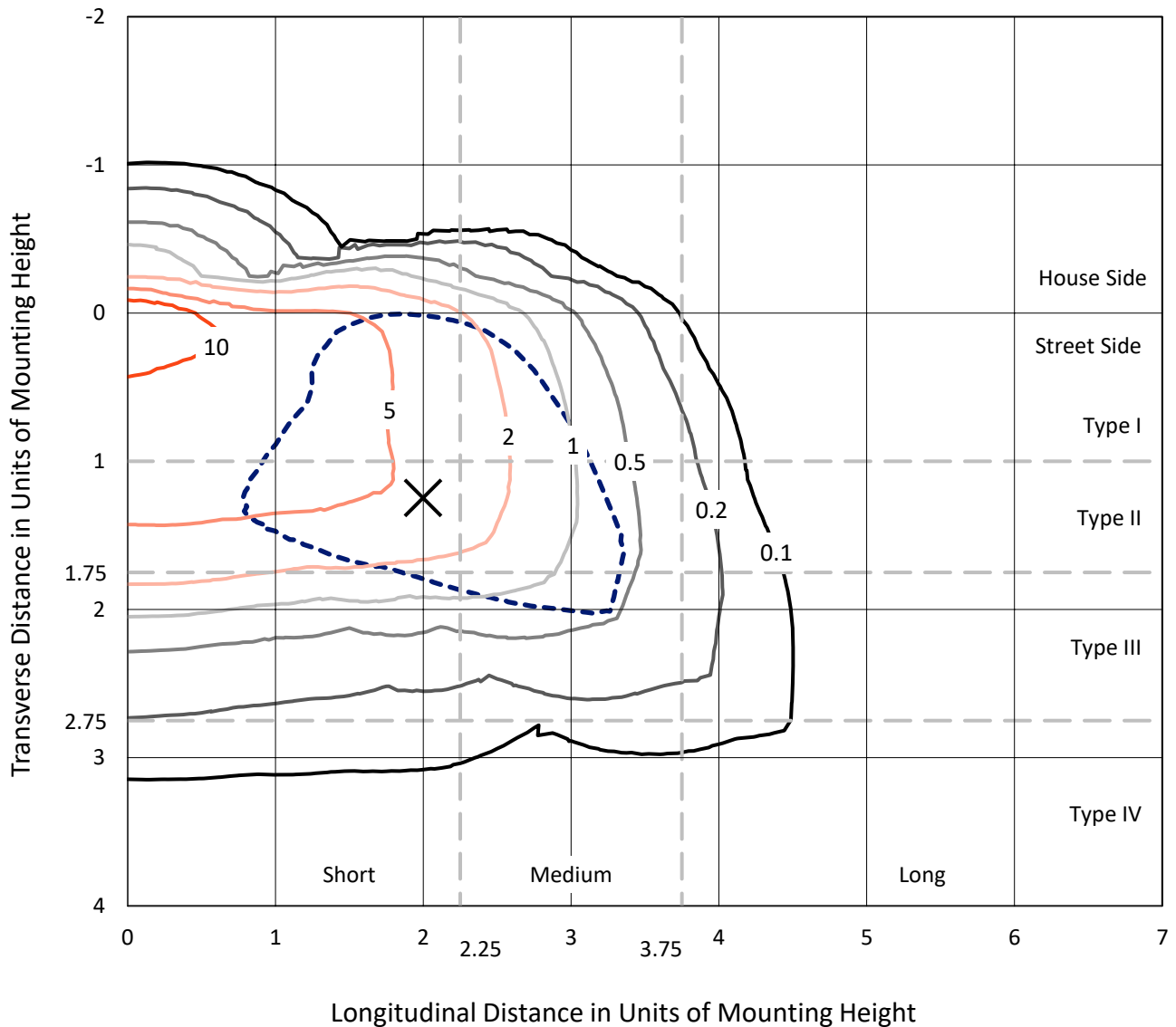
Lumens per Lamp: N/A  
Luminaire Lumens: 6457 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

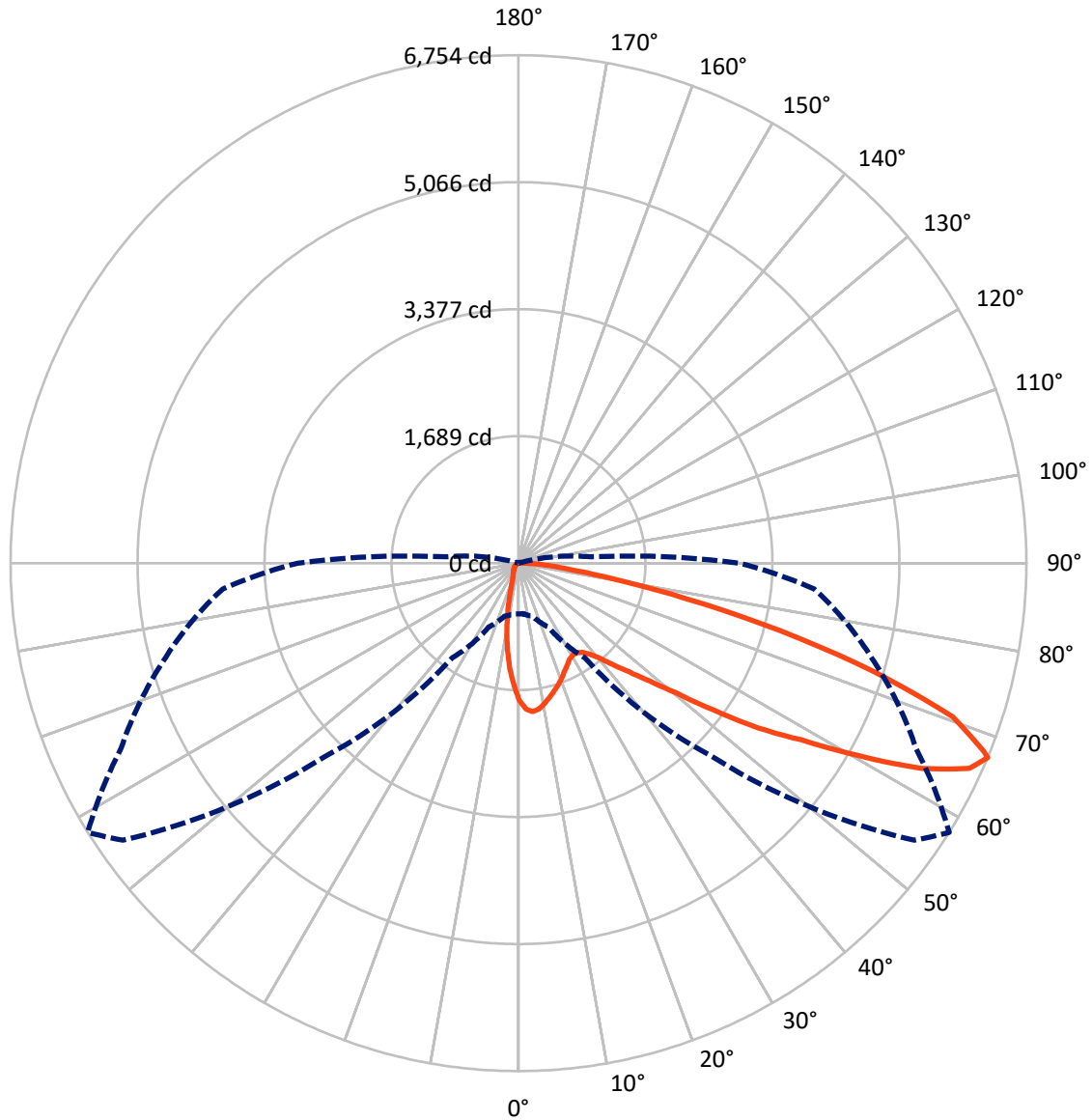
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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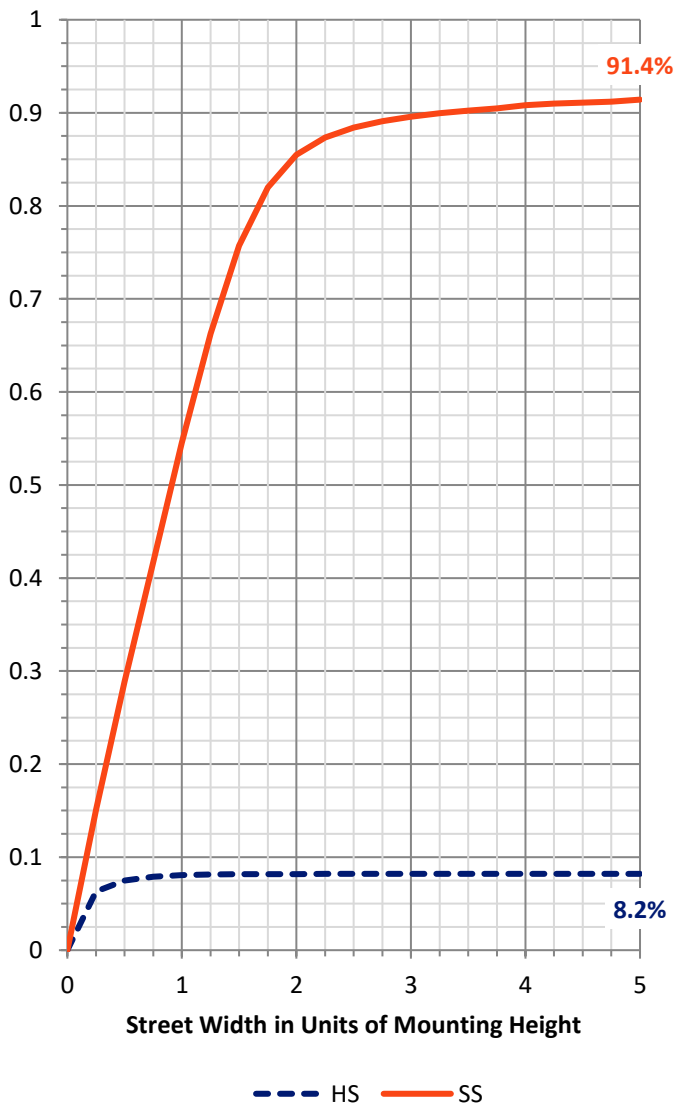
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	533.7	0.0	533.7
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	5923.2	0.0	5923.2
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	6457.0	0.0	6457.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.2	2.2
10°-20°	301.1	4.7
20°-30°	399.5	6.2
30°-40°	553.5	8.6
40°-50°	903.2	14.0
50°-60°	1587.5	24.6
60°-70°	1758.3	27.2
70°-80°	728.6	11.3
80°-90°	80.2	1.2
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°	6457.0	100.0
0°-180°	6457.0	100.0

**Coefficient of Utilization**



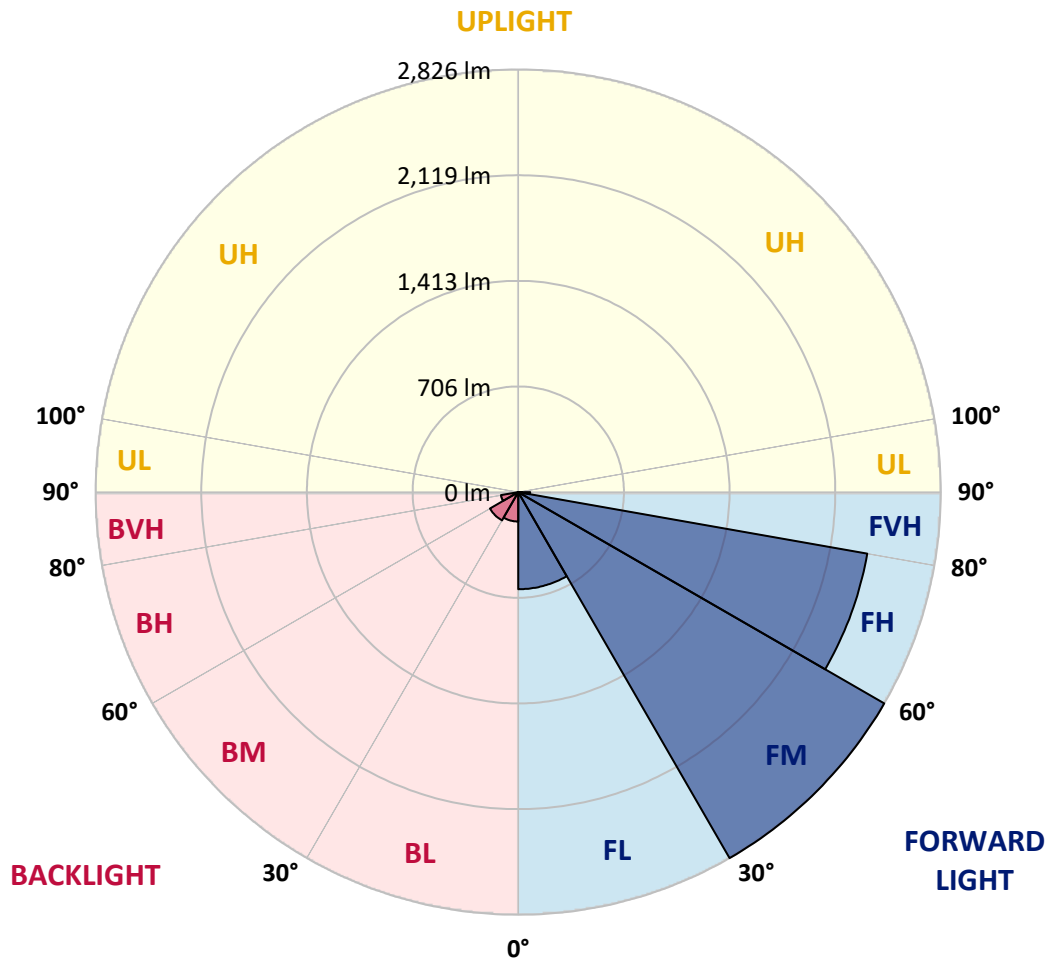
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.1	10.1			
FM (30°-60°)	2825.7	43.8			
FH (60°-80°)	2369.6	36.7			G2/5000
FVH (80°-90°)	78.9	1.2			G1/100
BL (0°-30°)	196.6	3.0	B1/500		
BM (30°-60°)	218.5	3.4	B0/220		
BH (60°-80°)	117.3	1.8	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
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°	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3
2.5°	1990.5	1997.4	2003.4	1992.2	2001.6	1987.9	1952.8	1945.1	1939.1	1886.8	1856.8
5°	1989.6	1981.9	1987.9	1993.1	1980.2	1990.5	1981.9	1982.8	1959.6	1912.5	1828.5
7.5°	1856.8	1853.3	1856.8	1881.6	1909.9	1932.2	1945.1	1957.9	1942.5	1872.2	1790.8
10°	1677.6	1694.8	1704.2	1748.8	1792.5	1833.6	1873.9	1897.9	1893.6	1865.3	1749.6
12.5°	1552.5	1547.3	1581.6	1610.7	1654.5	1737.6	1807.9	1830.2	1855.9	1816.5	1695.6
15°	1436.7	1423.0	1443.6	1494.2	1568.7	1634.8	1733.3	1766.8	1799.3	1809.6	1666.5
17.5°	1326.1	1333.0	1354.4	1399.9	1470.2	1562.7	1655.3	1703.3	1781.3	1767.6	1622.7
20°	1273.0	1287.6	1295.3	1318.4	1367.3	1459.9	1597.9	1636.5	1719.6	1766.8	1579.9
22.5°	1275.6	1275.6	1257.6	1271.3	1315.9	1387.9	1519.9	1562.7	1694.8	1722.2	1541.3
25°	1303.0	1285.9	1286.7	1270.4	1289.3	1328.7	1449.6	1501.9	1644.2	1726.5	1520.7
27.5°	1323.6	1320.1	1315.0	1310.7	1286.7	1292.7	1403.3	1446.2	1624.5	1721.3	1489.0
30°	1398.2	1382.7	1377.6	1368.2	1336.4	1307.3	1366.4	1420.4	1609.0	1733.3	1471.0
32.5°	1460.7	1463.3	1467.6	1440.2	1412.7	1340.7	1376.7	1419.6	1597.9	1760.8	1489.0
35°	1539.6	1550.7	1552.5	1543.9	1514.7	1443.6	1419.6	1456.4	1616.7	1809.6	1490.7
37.5°	1659.6	1647.6	1680.2	1683.6	1663.0	1568.7	1519.0	1533.6	1672.5	1887.6	1555.9
40°	1737.6	1752.2	1813.1	1850.8	1815.6	1729.9	1663.0	1660.5	1753.0	2010.2	1636.5
42.5°	1824.2	1856.8	1923.6	2005.1	2000.8	1921.1	1853.3	1842.2	1896.2	2187.7	1764.2
45°	1942.5	1971.6	2065.1	2187.7	2254.5	2186.8	2084.8	2062.5	2070.2	2429.4	1981.9
47.5°	2138.8	2131.1	2265.7	2386.5	2496.3	2444.0	2400.3	2335.1	2329.1	2714.0	2282.8
50°	2360.8	2359.1	2479.1	2616.3	2743.2	2845.2	2772.3	2701.2	2702.9	3100.6	2636.9
52.5°	2571.7	2605.1	2734.6	2870.9	3088.6	3198.4	3268.6	3240.4	3104.1	3446.1	3015.8
55°	2683.2	2712.3	2840.9	3075.8	3419.5	3701.5	3891.9	3867.9	3604.7	3835.3	3389.5
57.5°	2577.7	2597.4	2771.4	3079.2	3651.0	4280.2	4462.8	4432.8	4122.5	4132.7	3841.3
60°	2136.2	2167.1	2426.0	2786.9	3561.0	4725.9	5248.9	5203.4	4593.9	4509.1	4131.9
62.5°	1479.6	1500.2	1712.8	2162.0	3134.1	4881.1	5991.2	6016.1	5091.1	4802.2	4218.5
65°	958.4	956.7	1078.4	1382.7	2221.1	4411.3	6430.1	6584.4	5571.2	4846.8	4191.9
67°	677.2	674.6	732.1	937.8	1537.9	3634.7	6422.4	6754.2	5831.8	4859.7	3945.9
67.5°	624.9	622.4	677.2	862.4	1387.9	3380.1	6326.4	6666.7	5923.5	4841.7	3837.8
70°	485.2	478.3	498.9	594.1	808.4	2186.0	5414.3	6124.1	5733.2	4392.5	3064.6
72.5°	350.6	358.3	390.9	487.8	634.4	1176.1	4126.7	4952.3	4788.5	3310.6	1947.6
75°	244.3	251.2	303.5	397.8	582.1	713.2	2790.3	3591.8	3335.5	1827.6	829.8
77.5°	127.7	136.3	193.7	318.0	528.9	552.1	1667.3	2277.7	1767.6	650.6	228.9
80°	59.1	63.4	96.9	225.5	442.3	485.2	972.1	1267.0	707.2	145.7	78.9
82.5°	25.7	28.3	44.6	129.4	313.7	424.3	601.8	664.4	256.3	47.1	48.9
85°	5.1	6.0	17.1	68.6	151.7	257.2	422.6	394.3	128.6	23.1	38.6
87.5°	0.0	0.0	4.3	19.7	41.1	76.3	179.2	179.2	39.4	12.0	14.6
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°	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3	1829.3
2.5°	1830.2	1799.3	1731.6	1669.0	1624.5	1573.9	1507.0	1477.0	1465.9	1450.4	1427.3
5°	1782.2	1744.5	1628.8	1512.2	1384.4	1287.6	1184.7	1124.7	1079.3	1051.0	1041.5
7.5°	1714.5	1637.3	1481.3	1294.4	1129.0	985.0	828.9	723.5	655.8	628.4	602.6
10°	1660.5	1560.2	1322.7	1090.4	870.1	659.2	483.5	390.9	320.6	294.0	290.6
12.5°	1590.2	1470.2	1174.4	882.1	605.2	392.6	267.5	232.3	212.6	209.2	206.6
15°	1531.9	1388.7	1033.8	683.2	391.8	245.2	208.3	199.7	194.6	192.9	193.7
17.5°	1492.4	1301.3	889.8	497.2	258.0	200.6	192.0	186.9	184.3	183.4	180.9
20°	1414.4	1227.6	747.5	348.0	201.5	185.2	178.3	174.0	171.4	170.6	169.7
22.5°	1369.9	1134.1	605.2	242.6	179.2	168.0	162.9	159.4	155.2	152.6	151.7
25°	1325.3	1065.5	478.3	188.6	162.9	155.2	147.4	143.2	136.3	132.9	132.0
27.5°	1273.0	997.8	368.6	163.7	146.6	138.9	131.2	124.3	115.7	112.3	110.6
30°	1243.0	931.8	277.7	146.6	134.6	124.3	114.9	106.3	96.9	90.9	89.2
32.5°	1227.6	871.8	208.3	133.7	121.7	110.6	98.6	88.3	79.7	74.6	73.7
35°	1208.7	813.5	163.7	121.7	109.7	97.7	85.7	75.4	66.9	62.6	60.9
37.5°	1228.4	779.2	136.3	112.3	100.3	86.6	73.7	63.4	56.6	52.3	51.4
40°	1282.4	750.9	118.3	103.7	90.9	76.3	64.3	54.0	48.0	44.6	42.9
42.5°	1365.6	750.9	107.2	95.2	82.3	66.9	54.9	47.1	41.1	37.7	36.9
45°	1516.5	774.1	97.7	86.6	72.0	57.4	47.1	39.4	33.4	30.0	29.1
47.5°	1728.2	827.2	90.0	78.9	64.3	50.6	41.1	33.4	27.4	24.0	23.1
50°	2012.8	948.1	82.3	69.4	57.4	43.7	34.3	26.6	21.4	18.0	17.1
52.5°	2367.7	1119.6	74.6	64.3	48.9	36.9	27.4	21.4	16.3	13.7	12.9
55°	2743.2	1329.6	65.2	57.4	42.0	30.9	22.3	16.3	12.0	10.3	9.4
57.5°	3121.2	1491.6	57.4	49.7	34.3	24.9	18.0	12.9	8.6	6.9	6.0
60°	3321.8	1507.0	49.7	41.1	27.4	19.7	13.7	9.4	6.0	4.3	3.4
62.5°	3352.7	1369.9	42.9	33.4	22.3	15.4	9.4	6.9	3.4	1.7	1.7
65°	3194.1	1141.8	36.9	26.6	17.1	11.1	6.9	4.3	1.7	0.9	0.0
67°	2936.9	956.7	31.7	22.3	13.7	8.6	5.1	2.6	0.9	0.0	0.0
67.5°	2837.5	905.2	30.0	20.6	12.9	7.7	4.3	2.6	0.9	0.0	0.0
70°	2202.2	646.4	22.3	14.6	9.4	6.0	3.4	1.7	0.0	0.0	0.0
72.5°	1349.3	378.0	17.1	10.3	6.9	4.3	2.6	0.9	0.0	0.0	0.0
75°	565.8	130.3	14.6	7.7	5.1	2.6	1.7	0.9	0.0	0.0	0.0
77.5°	147.4	48.9	10.3	5.1	3.4	2.6	1.7	0.9	0.0	0.0	0.0
80°	60.0	22.3	6.9	3.4	3.4	2.6	1.7	0.9	0.0	0.0	0.0
82.5°	39.4	10.3	4.3	3.4	2.6	1.7	0.9	0.0	0.0	0.0	0.0
85°	30.0	6.0	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.4	2.6	1.7	1.7	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)