

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: P479984

Luminaire Tested: **IFLD-S-SA2A-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479984  
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-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

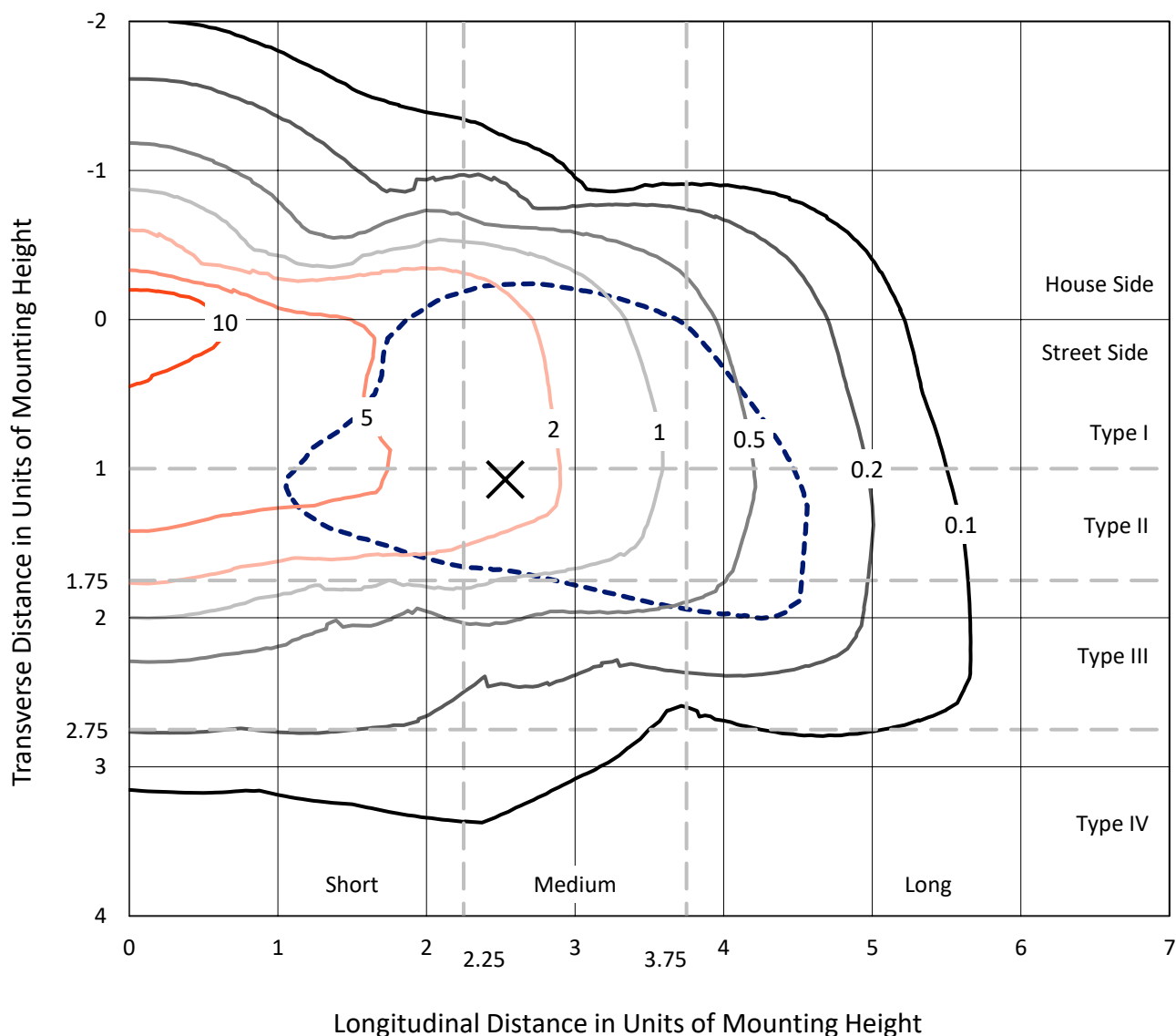
Lumens per Lamp: N/A  
Luminaire Lumens: 7698.2 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

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

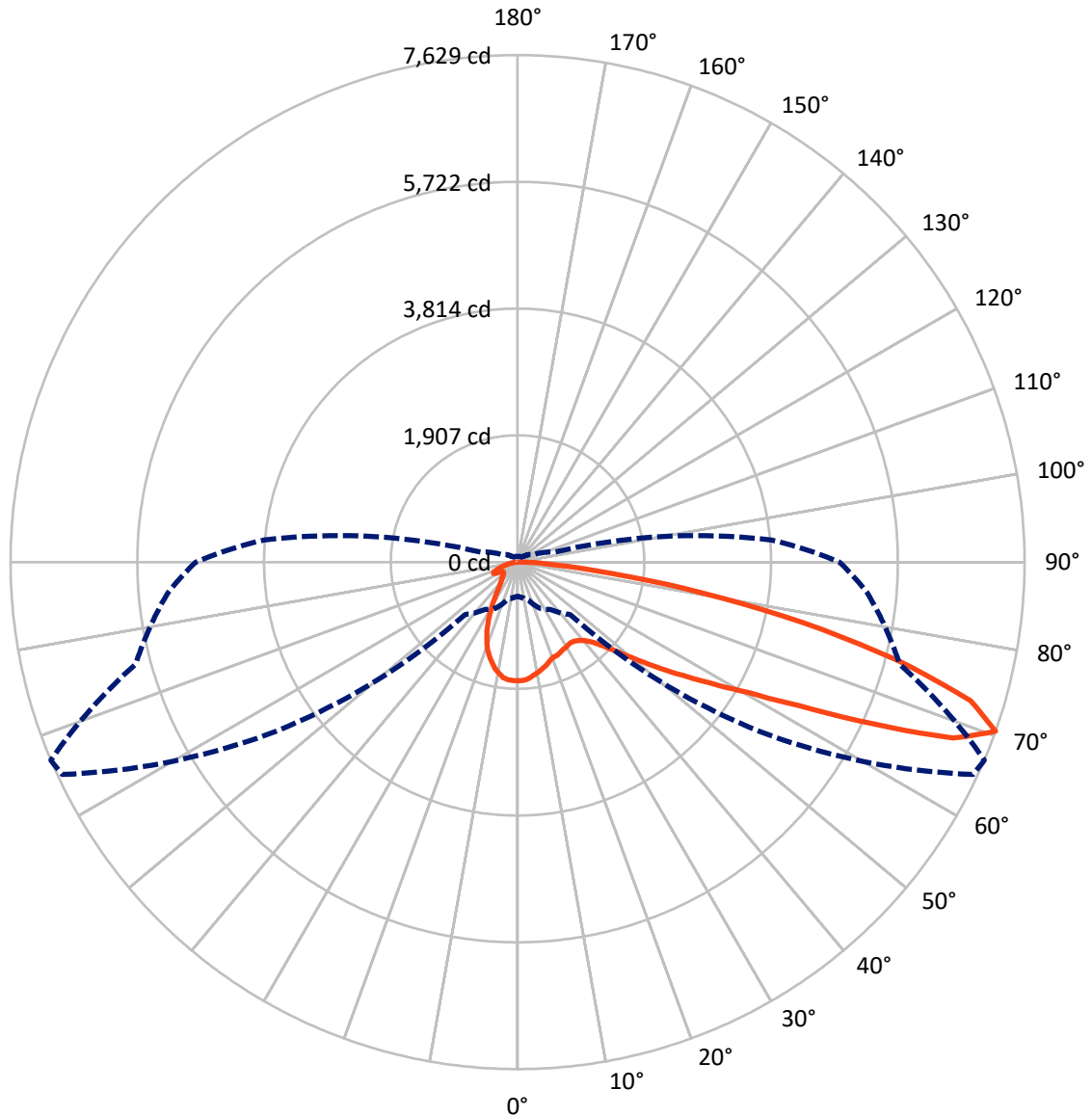
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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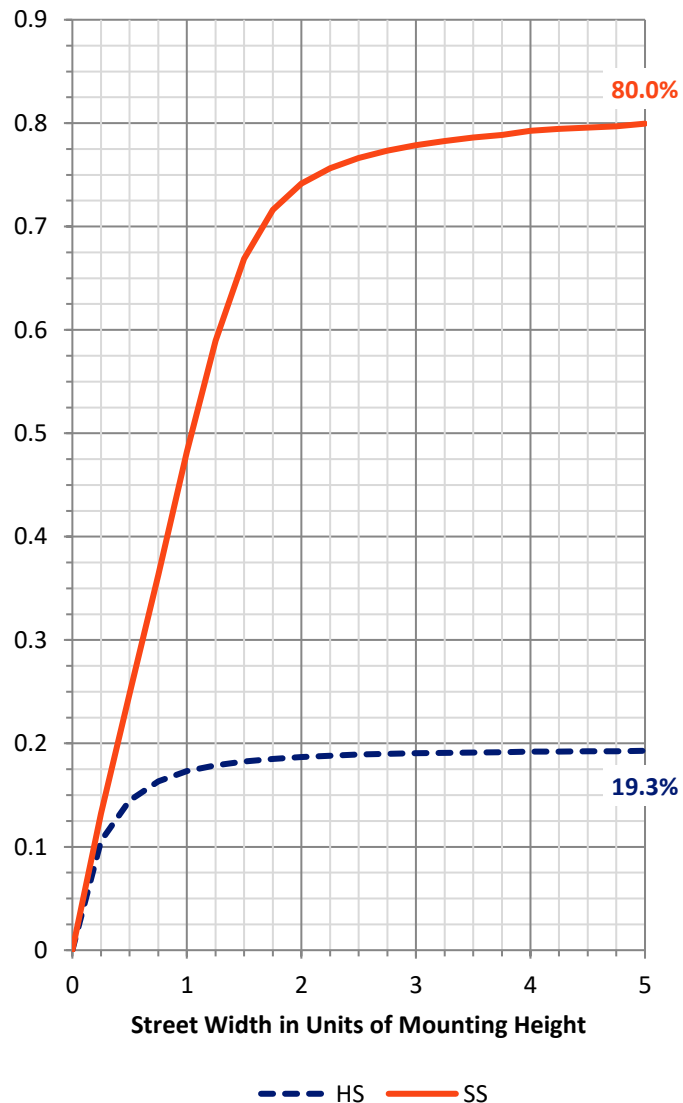
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1499.3	0.0	1499.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	6198.9	0.0	6198.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7698.2	0.0	7698.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	2.0
10°-20°	372.4	4.8
20°-30°	502.9	6.5
30°-40°	672.9	8.7
40°-50°	989.5	12.9
50°-60°	1542.4	20.0
60°-70°	1900.0	24.7
70°-80°	1342.5	17.4
80°-90°	220.0	2.9
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°	7698.2	100.0
0°-180°	7698.2	100.0

**Coefficient of Utilization**

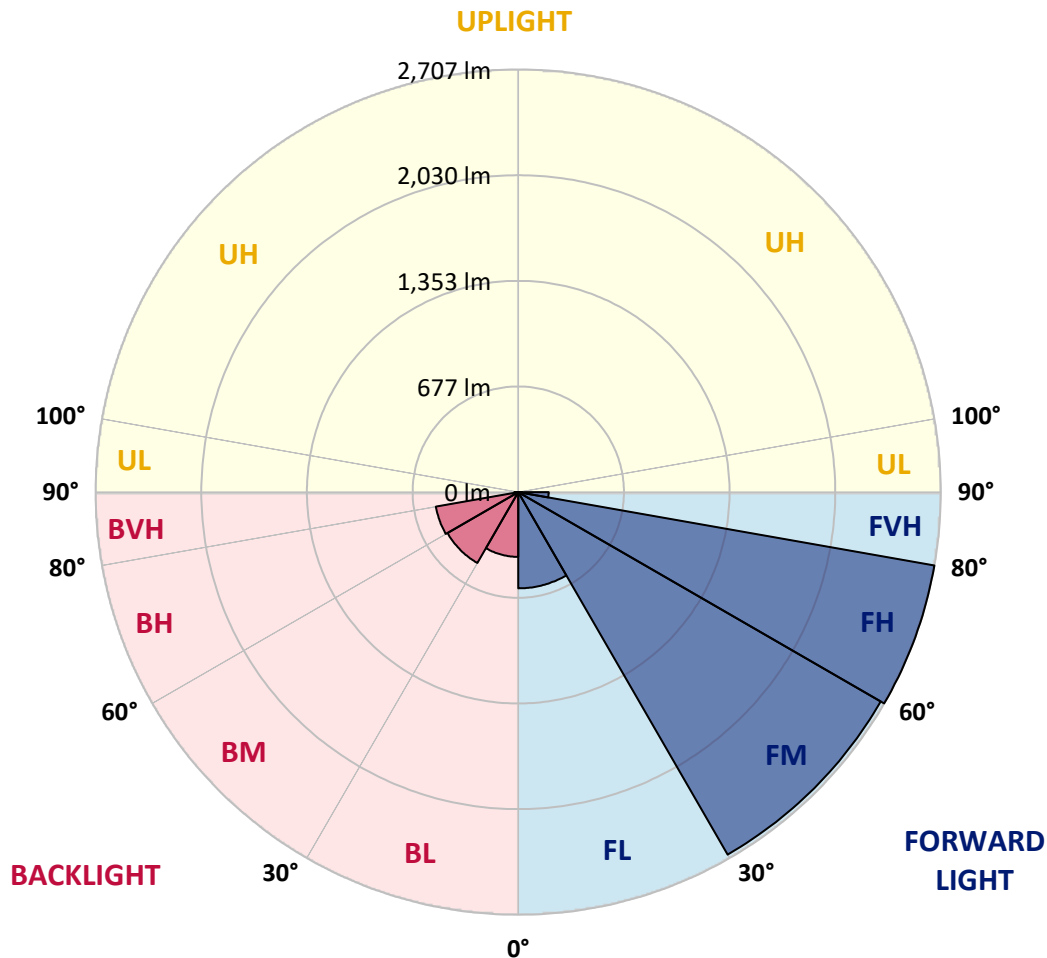


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.2	8.0			
FM (30°-60°)	2681.1	34.8			
FH (60°-80°)	2706.9	35.2			G2/5000
FVH (80°-90°)	194.7	2.5			G2/225
BL (0°-30°)	414.6	5.4	B1/500		
BM (30°-60°)	523.7	6.8	B1/1000		
BH (60°-80°)	535.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	25.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1
2.5°	1659.4	1678.1	1684.9	1695.2	1721.6	1741.2	1753.1	1766.8	1783.0	1796.6	1805.1
5°	1543.5	1553.7	1569.9	1581.0	1614.2	1667.0	1702.8	1760.8	1759.1	1780.4	1812.8
7.5°	1431.0	1441.2	1448.9	1471.0	1518.8	1566.5	1632.1	1725.9	1719.0	1768.5	1818.8
10°	1361.1	1353.4	1356.0	1393.5	1431.0	1484.7	1567.3	1662.8	1687.5	1764.2	1835.8
12.5°	1295.5	1286.9	1307.4	1331.3	1377.3	1425.9	1524.7	1610.8	1648.3	1748.9	1843.5
15°	1254.5	1248.6	1274.2	1284.4	1338.9	1396.9	1466.8	1571.6	1612.5	1730.1	1831.5
17.5°	1231.5	1236.7	1246.0	1268.2	1303.1	1352.6	1429.3	1545.2	1563.1	1707.1	1829.0
20°	1235.8	1241.8	1242.6	1252.0	1275.9	1314.2	1392.6	1517.0	1529.0	1702.8	1835.8
22.5°	1269.9	1261.4	1264.8	1258.8	1265.6	1295.5	1364.5	1479.5	1525.6	1667.0	1821.3
25°	1321.0	1309.1	1307.4	1286.9	1274.2	1282.7	1359.4	1470.2	1500.0	1656.0	1820.5
27.5°	1411.4	1393.5	1393.5	1362.8	1310.8	1297.2	1344.9	1454.8	1481.3	1645.7	1800.9
30°	1498.3	1498.3	1499.2	1455.7	1397.7	1330.4	1350.9	1448.9	1465.9	1615.1	1774.4
32.5°	1604.0	1601.4	1597.2	1575.9	1486.4	1385.8	1379.8	1441.2	1449.7	1604.8	1766.8
35°	1707.1	1700.3	1733.5	1714.8	1623.6	1494.0	1409.7	1444.6	1463.4	1589.5	1742.9
37.5°	1784.7	1788.9	1858.0	1869.9	1791.5	1616.8	1494.0	1478.7	1496.6	1611.7	1742.9
40°	1885.2	1902.3	1967.0	2007.1	1959.4	1778.7	1627.8	1535.8	1548.6	1661.1	1780.4
42.5°	2017.3	2031.8	2114.5	2166.5	2152.8	1984.9	1759.9	1655.1	1644.9	1743.8	1836.7
45°	2192.1	2194.6	2278.1	2349.7	2377.8	2200.6	1969.6	1806.0	1797.4	1886.1	1939.8
47.5°	2400.0	2397.4	2449.4	2526.1	2602.0	2458.0	2210.8	2035.2	2004.6	2089.8	2111.1
50°	2601.1	2590.1	2602.0	2700.0	2845.7	2780.1	2504.0	2315.6	2284.9	2331.8	2368.5
52.5°	2711.9	2725.6	2693.2	2822.7	3104.8	3161.1	2892.6	2650.6	2624.2	2647.2	2711.1
55°	2634.4	2662.5	2641.2	2763.9	3218.2	3625.6	3395.5	3038.4	3004.3	2995.7	3100.6
57.5°	2304.6	2355.7	2359.9	2554.3	3179.0	3985.2	4102.9	3496.0	3444.9	3358.0	3466.2
60°	1769.3	1820.5	1859.7	2089.8	2843.2	4200.0	4922.7	4147.2	3978.4	3753.4	3818.2
62.5°	1240.1	1275.0	1314.2	1455.7	2192.1	4073.9	5631.8	5064.2	4753.1	4170.2	4251.1
65°	903.4	930.7	970.7	1054.3	1346.6	3370.7	5960.8	6153.4	5858.5	4700.3	4690.1
67.5°	680.1	697.2	750.0	883.8	933.2	2082.1	5619.9	7304.0	7065.4	5289.2	5042.9
70°	514.8	529.3	578.7	761.9	871.9	1116.5	4433.5	7560.5	7628.7	5949.7	5279.8
72.5°	354.5	370.7	426.1	634.9	830.1	885.5	2782.7	6868.5	7126.7	6221.6	5025.9
75°	217.3	228.4	260.8	481.5	824.1	865.9	1531.5	5628.4	5902.0	5748.6	4396.9
77.5°	153.4	152.6	158.5	282.1	714.2	871.0	944.3	4124.2	4390.1	4236.7	2983.8
80°	111.6	112.5	118.5	168.8	484.9	885.5	744.0	2762.2	2841.5	2209.1	1177.0
82.5°	67.3	70.7	85.2	114.2	291.5	799.4	687.8	1534.9	1436.1	709.1	323.9
85°	35.8	35.8	50.3	72.4	155.1	596.6	662.2	730.4	611.9	219.9	120.2
87.5°	8.5	8.5	14.5	29.0	62.2	285.5	451.7	290.6	232.7	74.1	49.4
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°	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1	1782.1
2.5°	1801.7	1791.5	1804.3	1778.7	1758.2	1759.1	1727.6	1725.9	1721.6	1699.4	1707.1
5°	1822.2	1813.6	1799.2	1771.0	1725.9	1680.7	1653.4	1618.5	1604.0	1596.3	1599.7
7.5°	1841.8	1826.4	1784.7	1745.5	1675.6	1590.3	1540.9	1494.0	1434.4	1427.6	1415.6
10°	1846.9	1814.5	1760.8	1677.3	1584.4	1489.8	1377.3	1290.3	1244.3	1208.5	1194.9
12.5°	1839.2	1825.6	1722.4	1615.1	1474.4	1326.1	1194.9	1072.2	986.9	942.6	930.7
15°	1838.4	1814.5	1679.8	1520.5	1340.6	1147.2	960.5	813.1	723.6	686.9	686.9
17.5°	1839.2	1782.1	1629.5	1425.0	1183.0	921.3	715.9	594.9	545.5	540.3	544.6
20°	1822.2	1758.2	1576.7	1312.5	985.2	692.0	519.9	470.5	470.5	477.3	479.8
22.5°	1806.8	1722.4	1493.2	1173.6	784.1	501.1	422.7	408.2	424.4	436.4	441.5
25°	1785.5	1692.6	1408.0	1029.5	596.6	404.0	367.3	370.7	386.1	407.4	405.7
27.5°	1754.8	1640.6	1306.5	862.5	444.0	348.6	339.2	340.9	357.1	366.5	364.8
30°	1719.9	1587.8	1212.8	696.3	352.0	319.6	318.8	323.0	325.6	330.7	329.8
32.5°	1675.6	1517.9	1113.1	541.2	317.0	303.4	300.0	297.4	300.0	299.1	296.6
35°	1644.0	1480.4	1011.7	412.5	297.4	288.9	286.4	282.1	278.7	273.6	272.7
37.5°	1635.5	1442.9	905.1	336.6	282.1	277.8	269.3	261.6	257.4	254.8	253.1
40°	1630.4	1418.2	801.1	295.7	269.3	265.1	254.8	244.6	240.3	237.8	238.6
42.5°	1648.3	1404.5	695.5	275.3	258.2	250.6	239.5	227.6	226.7	225.0	227.6
45°	1711.4	1421.6	597.4	260.8	247.2	234.4	219.9	213.9	213.1	211.4	213.1
47.5°	1854.5	1464.2	513.9	251.4	235.2	224.1	208.8	200.3	199.4	198.6	198.6
50°	2052.3	1595.5	444.0	240.3	227.6	212.2	197.7	188.4	186.6	183.2	183.2
52.5°	2362.5	1816.2	402.3	234.4	213.9	201.1	185.8	175.6	171.3	167.9	167.9
55°	2711.9	2089.8	394.6	224.1	199.4	187.5	173.9	163.6	159.4	155.1	153.4
57.5°	3110.0	2452.0	449.1	217.3	189.2	173.9	158.5	149.1	145.7	141.5	139.8
60°	3480.7	2813.4	618.8	207.1	179.8	161.1	145.7	136.4	132.1	127.8	127.8
62.5°	3909.4	3260.8	906.0	207.1	171.3	147.4	132.1	125.3	122.7	118.5	117.6
65°	4416.5	3723.6	1115.6	219.9	168.8	135.5	119.3	112.5	109.9	107.4	106.5
67.5°	4802.6	3989.5	959.7	254.0	179.8	125.3	106.5	102.3	100.6	98.0	96.3
70°	4843.5	3827.6	578.7	274.4	190.9	115.1	95.5	91.2	91.2	88.6	86.9
72.5°	4476.1	3396.3	389.5	244.6	173.0	103.1	84.4	81.0	79.3	77.6	76.7
75°	3745.7	2880.7	307.7	195.2	133.0	85.2	73.3	69.9	67.3	66.5	64.8
77.5°	2515.9	1872.4	227.6	152.6	98.0	69.0	61.4	58.0	55.4	54.5	52.0
80°	966.5	713.4	146.6	110.8	69.0	54.5	48.6	45.2	43.5	40.9	39.2
82.5°	284.7	231.0	81.8	68.2	44.3	37.5	34.9	32.4	29.8	27.3	26.4
85°	117.6	105.7	50.3	35.8	27.3	22.2	20.5	17.9	15.3	13.6	11.9
87.5°	54.5	45.2	23.0	13.6	9.4	5.1	2.6	0.9	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)