

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: P799879

Luminaire Tested: **ARCH2-60-727-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-60-727-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

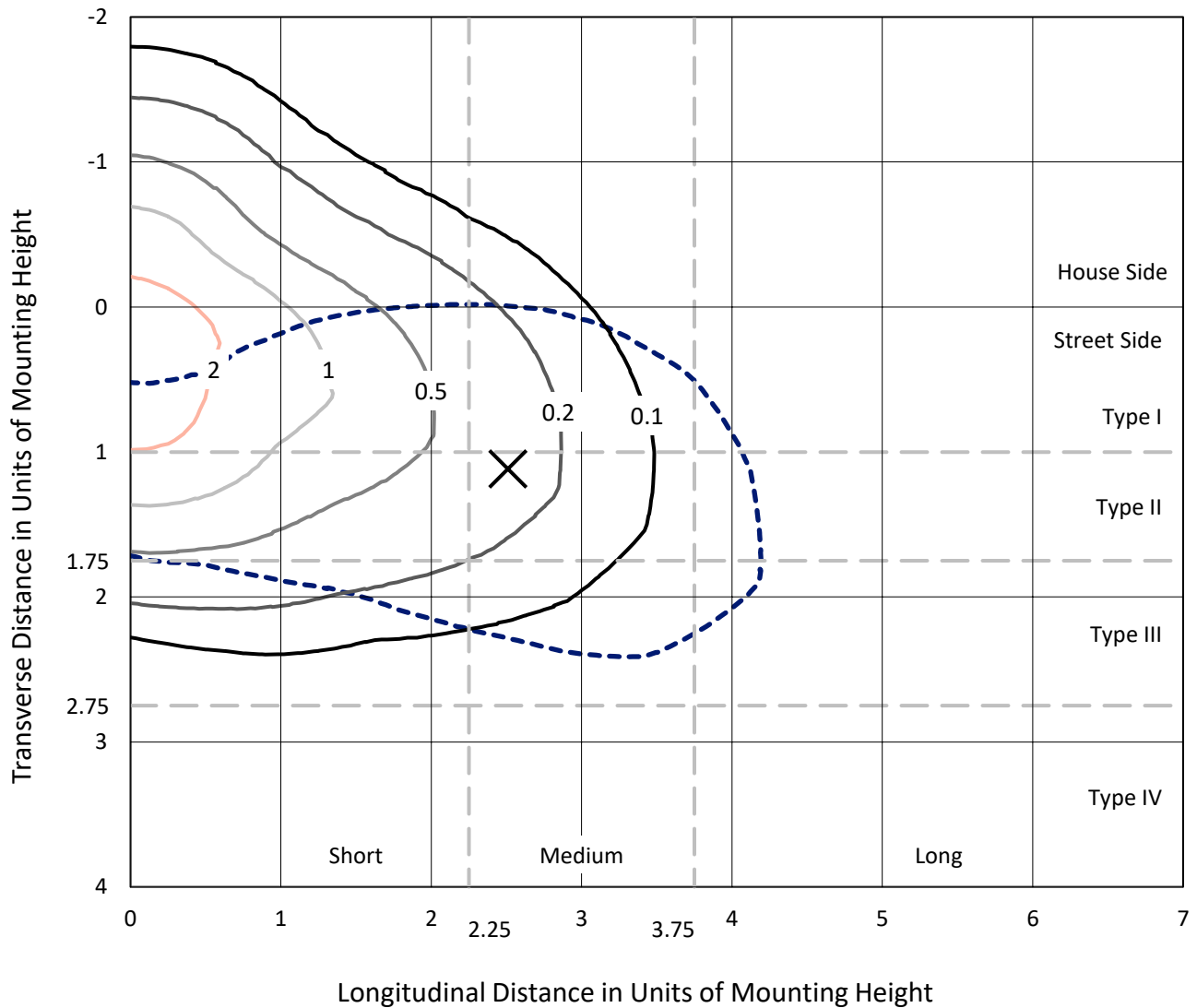
Lumens per Lamp: N/A  
Luminaire Lumens: 8583 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.8  
Input Voltage (V): NR  
Input Current (Ain): 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

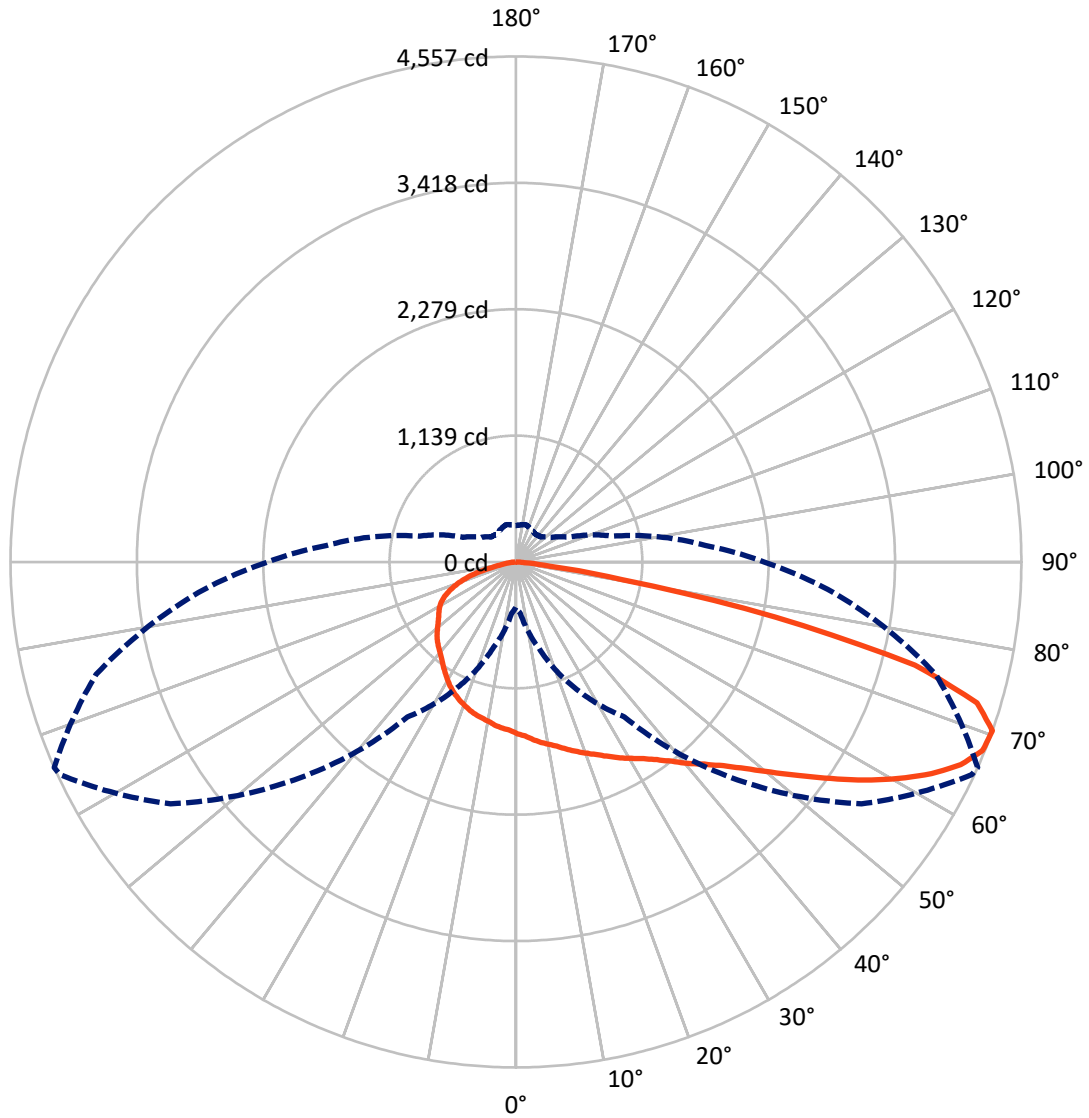
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2274.3	0.0	2274.3
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	6308.7	0.0	6308.7
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	8583.0	0.0	8583.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.8	1.7
10°-20°	446.5	5.2
20°-30°	748.5	8.7
30°-40°	1120.7	13.1
40°-50°	1498.4	17.5
50°-60°	1749.4	20.4
60°-70°	1739.5	20.3
70°-80°	1029.8	12.0
80°-90°	101.5	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°	8583.0	100.0
0°-180°	8583.0	100.0

**Coefficient of Utilization**



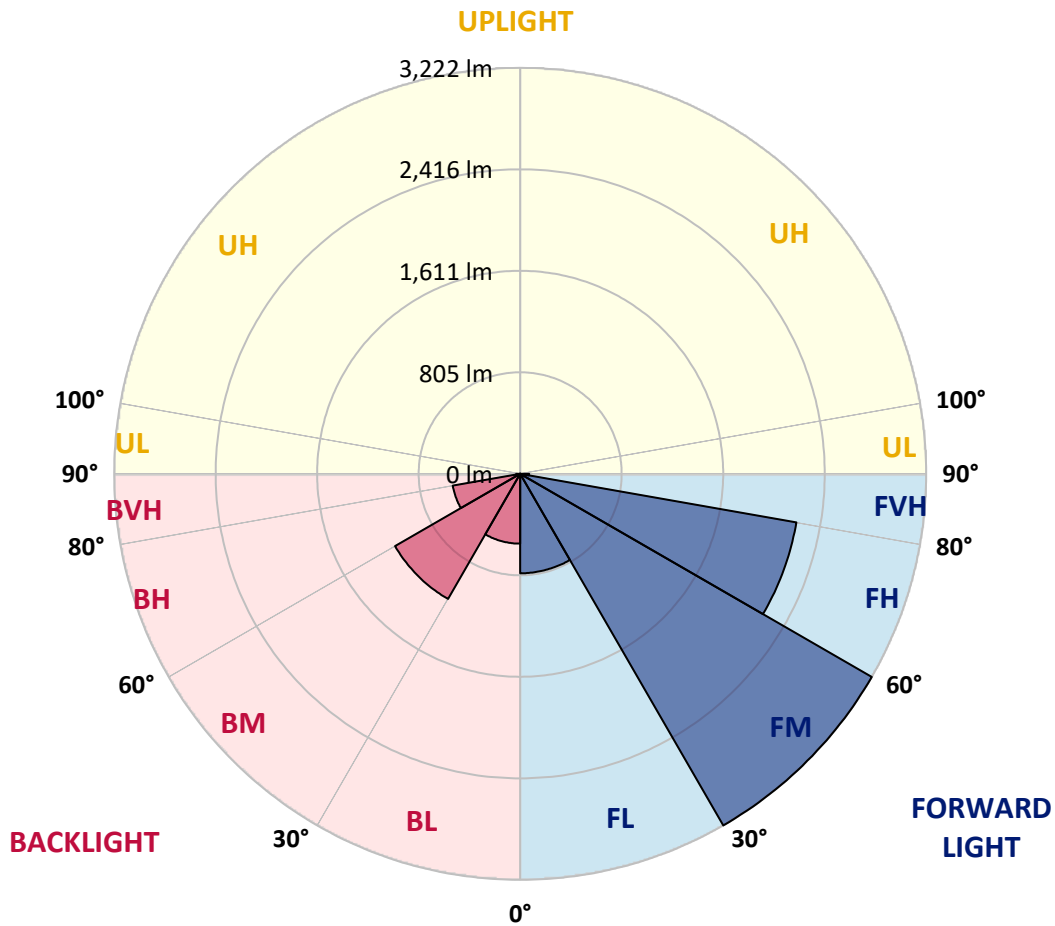
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.4	9.2			
FM (30°-60°)	3221.9	37.5			
FH (60°-80°)	2226.0	25.9			G2/5000
FVH (80°-90°)	71.3	0.8			G1/100
BL (0°-30°)	554.4	6.5	B2/1000		
BM (30°-60°)	1146.5	13.4	B2/2500		
BH (60°-80°)	543.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	30.2	0.4			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°	66°	75°	85°
0°	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0
2.5°	1606.0	1603.5	1602.2	1597.1	1585.7	1590.8	1579.4	1571.8	1570.6	1552.8	1542.7
5°	1671.8	1670.5	1668.0	1660.4	1642.7	1645.2	1626.2	1612.3	1608.5	1580.7	1559.2
7.5°	1727.5	1724.9	1723.7	1713.6	1694.6	1693.3	1670.5	1650.3	1644.0	1606.0	1573.1
10°	1770.5	1766.7	1769.2	1759.1	1738.9	1735.1	1706.0	1679.4	1673.1	1625.0	1579.4
12.5°	1807.2	1804.7	1808.5	1799.6	1783.2	1779.4	1750.3	1716.1	1708.5	1652.8	1593.3
15°	1847.7	1838.8	1846.4	1842.6	1831.3	1830.0	1803.4	1765.4	1755.3	1688.2	1614.8
17.5°	1869.2	1864.2	1873.0	1874.3	1869.2	1878.1	1852.8	1807.2	1798.3	1721.2	1633.8
20°	1884.4	1876.8	1886.9	1894.5	1898.3	1916.0	1895.8	1851.5	1841.4	1752.8	1651.5
22.5°	1936.3	1919.8	1921.1	1926.2	1928.7	1954.0	1941.4	1898.3	1888.2	1792.0	1673.1
25°	2066.6	2033.7	2012.2	1997.0	1979.3	2000.8	1993.2	1951.5	1942.6	1838.8	1699.6
27.5°	2269.1	2227.4	2184.3	2140.0	2070.4	2061.6	2048.9	2011.0	2000.8	1885.7	1726.2
30°	2499.5	2457.7	2407.1	2336.2	2205.9	2137.5	2108.4	2066.6	2055.3	1927.4	1751.5
32.5°	2728.5	2691.8	2641.2	2555.2	2369.1	2229.9	2167.9	2124.9	2113.5	1973.0	1781.9
35°	2907.0	2884.2	2851.3	2743.7	2531.1	2338.7	2253.9	2202.1	2189.4	2045.1	1837.6
37.5°	3051.2	3034.8	3007.0	2894.3	2648.8	2447.6	2352.7	2293.2	2279.3	2123.6	1897.1
40°	3263.9	3220.8	3198.1	3034.8	2751.3	2546.3	2464.0	2402.0	2386.8	2207.1	1945.2
42.5°	3444.8	3413.2	3385.4	3160.1	2848.8	2631.1	2569.1	2512.1	2491.9	2289.4	1997.0
45°	3475.2	3487.9	3473.9	3222.1	3003.2	2714.6	2675.4	2638.7	2619.7	2400.8	2075.5
47.5°	3476.5	3476.5	3394.2	3257.5	3194.3	2808.3	2789.3	2801.9	2781.7	2542.5	2169.2
50°	3385.4	3401.8	3358.8	3266.4	3244.9	2901.9	2928.5	2996.8	2976.6	2693.1	2270.4
52.5°	3196.8	3251.2	3249.9	3252.5	3171.5	2981.6	3075.3	3231.0	3196.8	2862.7	2378.0
55°	2863.9	2972.8	3070.2	3153.8	3108.2	3029.7	3255.0	3480.3	3444.8	3052.5	2486.8
57.5°	2579.2	2648.8	2770.3	3007.0	3033.5	3071.5	3423.3	3741.0	3709.3	3262.6	2600.7
60°	2253.9	2350.1	2471.6	2808.3	2942.4	3125.9	3608.1	3995.3	3965.0	3475.2	2710.8
62.5°	1754.1	1878.1	2121.1	2503.3	2809.5	3160.1	3753.6	4219.4	4205.4	3676.4	2809.5
65°	1222.5	1332.6	1673.1	2128.7	2598.2	3144.9	3870.1	4419.3	4406.7	3841.0	2879.1
67.5°	713.8	841.6	1226.3	1713.6	2224.8	3039.9	3908.0	4537.0	4537.0	3940.9	2898.1
70°	407.5	467.0	808.7	1249.1	1706.0	2750.0	3801.7	4535.7	4557.3	3918.1	2819.7
72.5°	284.7	311.3	544.2	840.3	1156.7	2224.8	3523.3	4316.8	4345.9	3703.0	2551.4
75°	221.5	240.5	383.5	573.3	729.0	1511.1	2914.6	3639.7	3716.9	3156.3	2062.9
77.5°	168.3	182.2	224.0	358.2	467.0	868.2	1923.6	2386.8	2391.9	1932.5	1106.1
80°	122.8	136.7	149.3	218.9	248.0	406.2	726.4	997.3	969.4	935.2	598.6
82.5°	73.4	87.3	91.1	119.0	121.5	173.4	254.4	321.5	308.8	411.3	281.0
85°	31.6	44.3	46.8	54.4	51.9	70.9	101.2	84.8	75.9	87.3	60.7
87.5°	7.6	12.7	12.7	13.9	11.4	17.7	19.0	13.9	12.7	15.2	15.2
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°	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0
2.5°	1540.2	1536.4	1537.6	1516.1	1509.8	1503.5	1499.7	1497.1	1494.6	1498.4	1502.2
5°	1551.6	1542.7	1532.6	1500.9	1488.3	1474.4	1464.2	1455.4	1451.6	1451.6	1455.4
7.5°	1560.4	1545.2	1523.7	1482.0	1459.2	1440.2	1423.7	1412.4	1406.0	1406.0	1409.8
10°	1561.7	1540.2	1506.0	1455.4	1425.0	1397.2	1378.2	1365.5	1356.7	1356.7	1359.2
12.5°	1569.3	1540.2	1495.9	1435.1	1397.2	1363.0	1340.2	1321.2	1317.4	1317.4	1320.0
15°	1581.9	1546.5	1489.6	1417.4	1371.9	1332.6	1307.3	1287.1	1279.5	1284.5	1285.8
17.5°	1593.3	1550.3	1478.2	1394.6	1340.2	1297.2	1269.3	1251.6	1241.5	1252.9	1252.9
20°	1600.9	1550.3	1461.7	1365.5	1306.0	1258.0	1231.4	1209.9	1202.3	1216.2	1217.5
22.5°	1612.3	1549.0	1444.0	1336.4	1269.3	1218.7	1192.2	1175.7	1171.9	1187.1	1192.2
25°	1625.0	1551.6	1425.0	1303.5	1228.9	1179.5	1159.2	1151.7	1154.2	1173.2	1179.5
27.5°	1638.9	1556.6	1406.0	1266.8	1184.6	1140.3	1128.9	1132.7	1142.8	1166.8	1174.4
30°	1651.5	1557.9	1379.5	1223.8	1133.9	1092.2	1097.2	1113.7	1128.9	1152.9	1161.8
32.5°	1668.0	1559.2	1351.6	1177.0	1079.5	1049.1	1071.9	1098.5	1113.7	1136.5	1146.6
35°	1708.5	1580.7	1330.1	1131.4	1028.9	1012.4	1050.4	1084.6	1093.4	1113.7	1122.5
37.5°	1755.3	1616.1	1318.7	1084.6	979.5	975.7	1023.8	1058.0	1060.5	1073.2	1082.0
40°	1784.4	1631.3	1306.0	1045.3	935.2	937.8	987.1	1013.7	1008.6	1017.5	1023.8
42.5°	1813.5	1636.4	1279.5	1012.4	893.5	896.0	934.0	953.0	955.5	974.5	983.3
45°	1862.9	1650.3	1250.4	982.1	855.5	846.7	869.4	894.7	927.6	964.4	974.5
47.5°	1928.7	1679.4	1220.0	945.4	818.8	789.7	798.6	842.9	877.0	911.2	917.5
50°	1995.8	1708.5	1192.2	901.1	782.1	729.0	732.8	773.3	801.1	827.7	831.5
52.5°	2061.6	1733.8	1168.1	859.3	740.3	656.8	672.0	713.8	732.8	745.4	749.2
55°	2127.4	1755.3	1146.6	823.9	692.3	599.9	613.8	653.0	672.0	678.3	680.9
57.5°	2195.7	1780.6	1130.1	793.5	637.8	549.2	558.1	586.0	603.7	611.3	608.7
60°	2252.7	1802.1	1121.3	761.9	583.4	502.4	499.9	525.2	550.5	558.1	555.6
62.5°	2297.0	1816.1	1107.4	721.4	535.3	455.6	442.9	475.8	502.4	507.5	511.3
65°	2321.0	1817.3	1073.2	669.5	486.0	405.0	396.1	429.0	445.5	450.5	450.5
67.5°	2317.2	1797.1	1006.1	599.9	440.4	359.4	351.8	372.1	396.1	399.9	396.1
70°	2238.8	1713.6	898.5	526.5	386.0	318.9	305.0	325.2	348.0	334.1	327.8
72.5°	2016.0	1497.1	740.3	445.5	325.2	268.3	262.0	282.2	283.5	286.0	279.7
75°	1590.8	1115.0	554.3	346.8	263.2	225.3	224.0	220.2	225.3	235.4	227.8
77.5°	835.3	556.8	299.9	212.6	191.1	181.0	172.1	170.8	186.0	192.4	184.8
80°	453.1	312.6	172.1	127.8	116.4	117.7	129.1	126.6	143.0	146.8	140.5
82.5°	197.4	148.1	84.8	77.2	77.2	75.9	79.7	88.6	106.3	106.3	84.8
85°	43.0	36.7	32.9	38.0	43.0	43.0	43.0	43.0	30.4	16.5	11.4
87.5°	13.9	13.9	13.9	15.2	16.5	16.5	13.9	10.1	6.3	1.3	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)