

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: P836529

Luminaire Tested: **ARCH3-40-722-U-T4W**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-40-722-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

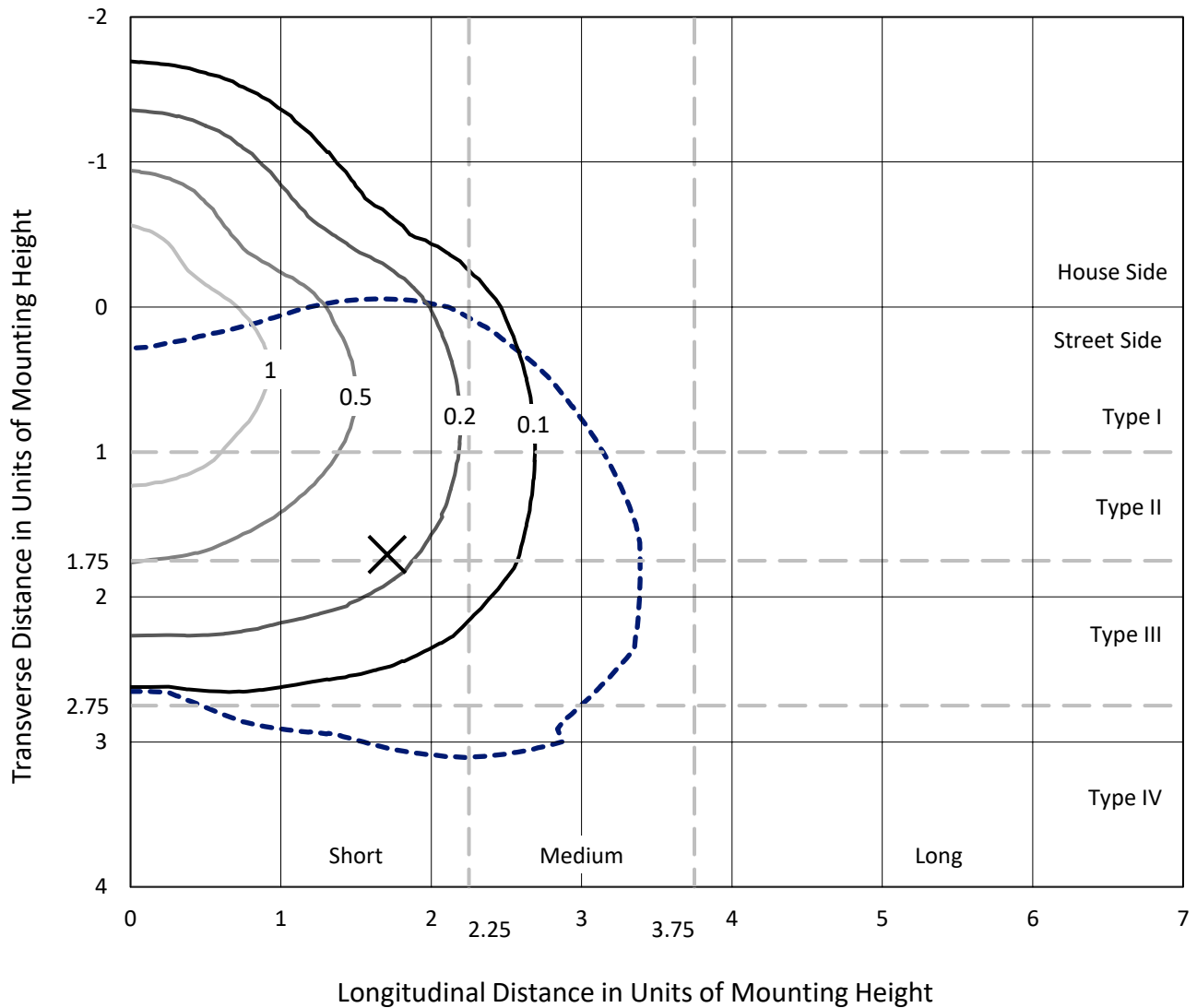
Lumens per Lamp: N/A  
Luminaire Lumens: 6203 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.6  
Input Voltage (V): NR  
Input Current (Ain): 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

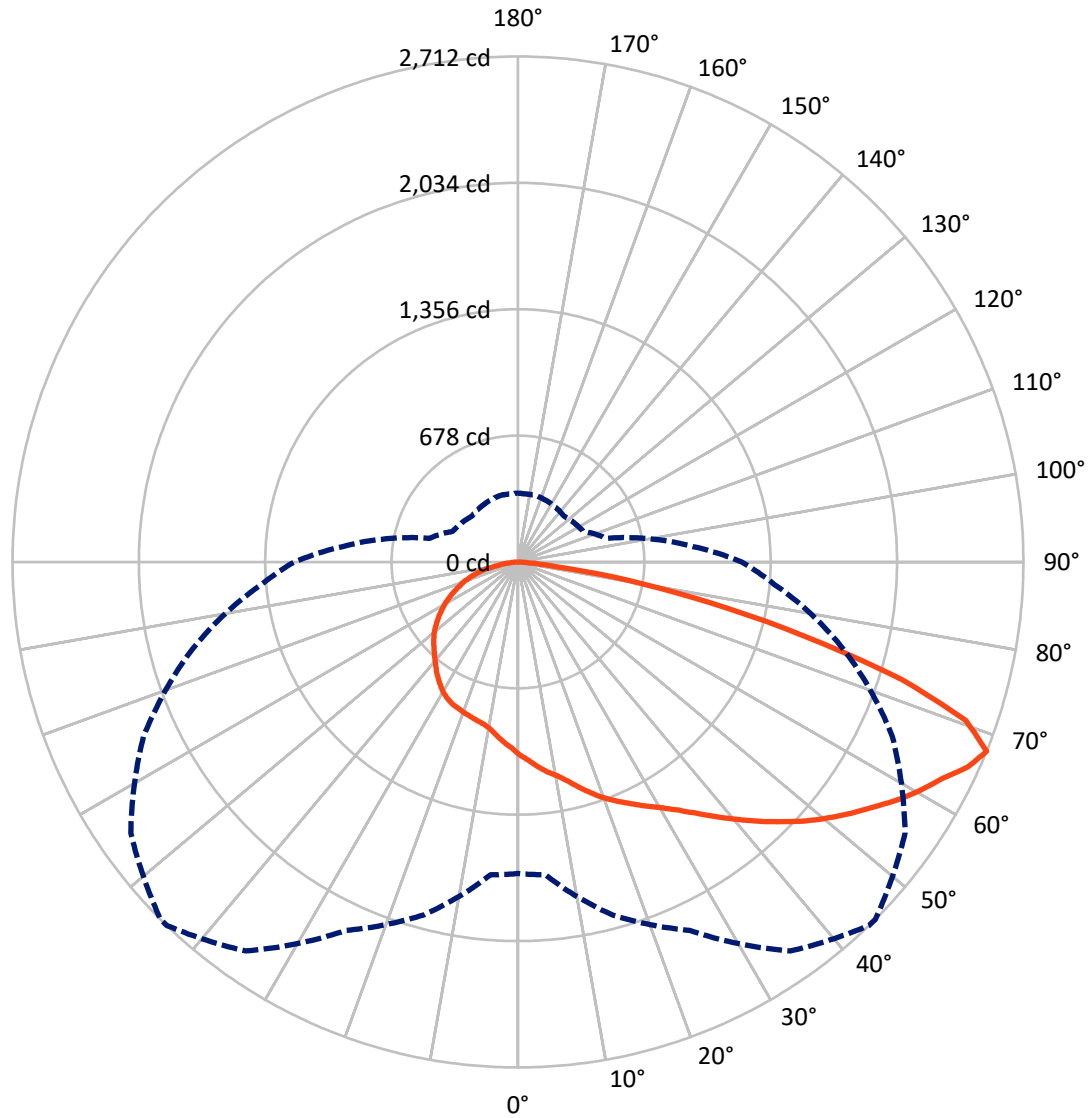
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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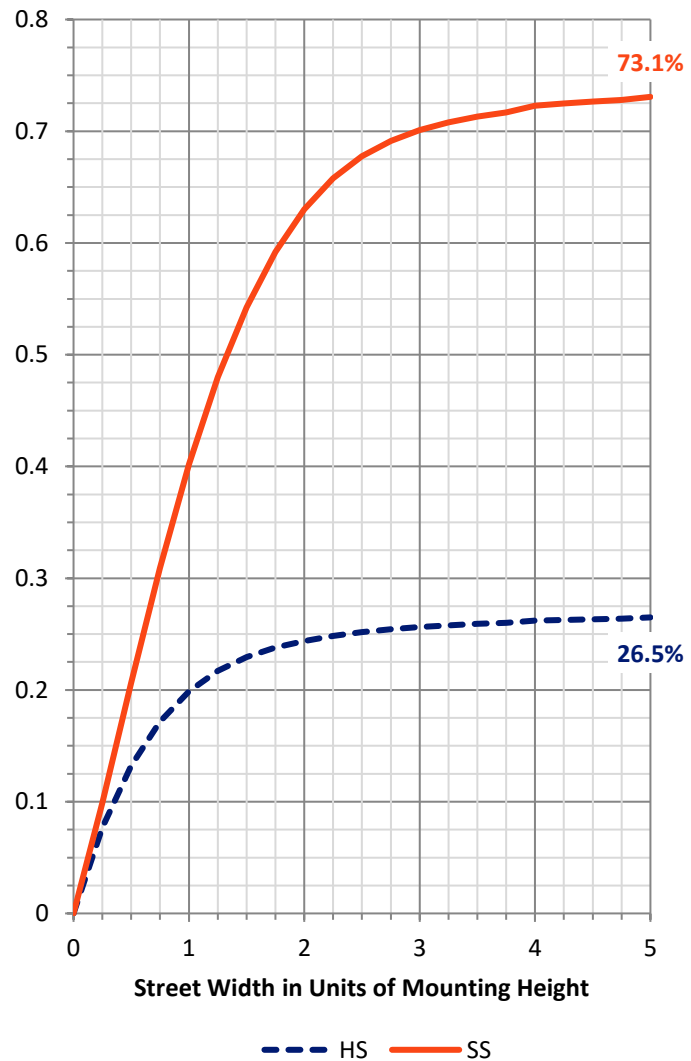
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1657.1	0.0	1657.1
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	4545.9	0.0	4545.9
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	6203.0	0.0	6203.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.1	1.6
10°-20°	306.0	4.9
20°-30°	528.2	8.5
30°-40°	778.9	12.6
40°-50°	1055.2	17.0
50°-60°	1289.7	20.8
60°-70°	1330.2	21.4
70°-80°	728.6	11.7
80°-90°	87.3	1.4
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°	6203.0	100.0
0°-180°	6203.0	100.0



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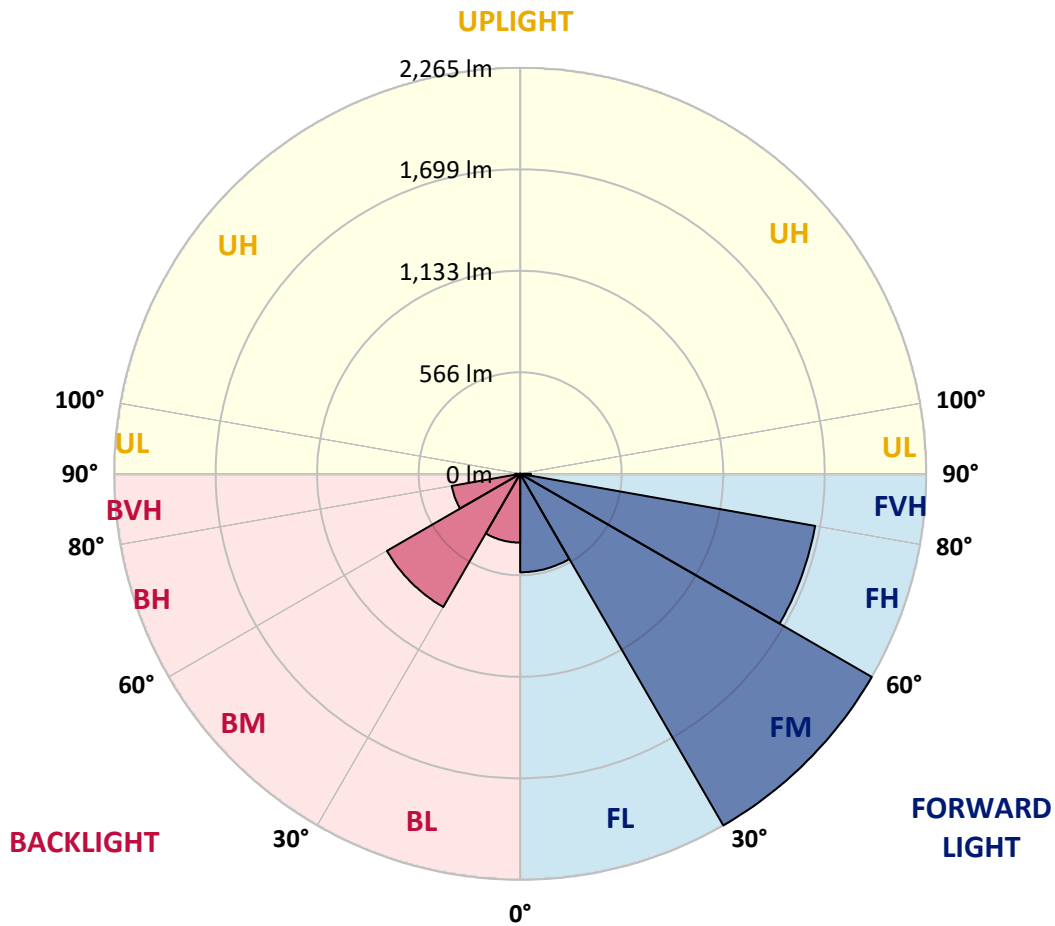
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.1	8.9			
FM	(30°-60°)	2265.4	36.5			
FH	(60°-80°)	1671.2	26.9			G1/1800
FVH	(80°-90°)	60.2	1.0			G1/100
BL	(0°-30°)	384.1	6.2	B1/500		
BM	(30°-60°)	858.4	13.8	B1/1000		
BH	(60°-80°)	387.5	6.2	B1/500		G1/500
BVH	(80°-90°)	27.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5
2.5°	1079.9	1078.9	1080.8	1074.2	1065.7	1064.7	1064.7	1059.1	1052.5	1039.3	1028.9
5°	1130.8	1128.9	1129.9	1120.4	1109.1	1103.4	1102.5	1090.2	1075.1	1054.4	1035.5
7.5°	1178.0	1176.1	1175.2	1164.8	1147.8	1138.4	1137.4	1119.5	1101.6	1069.5	1042.1
10°	1222.4	1220.5	1218.6	1204.4	1183.7	1169.5	1167.6	1145.0	1122.3	1082.7	1047.8
12.5°	1279.0	1275.2	1273.4	1256.4	1226.2	1211.1	1208.2	1178.0	1149.7	1101.6	1059.1
15°	1338.5	1335.7	1332.8	1316.8	1282.8	1263.0	1258.3	1220.5	1181.8	1126.1	1076.1
17.5°	1382.9	1380.0	1380.0	1365.9	1334.7	1312.1	1308.3	1263.0	1214.8	1148.8	1089.3
20°	1410.2	1407.4	1410.2	1401.7	1378.1	1359.3	1355.5	1305.4	1247.9	1169.5	1100.6
22.5°	1430.0	1427.2	1431.9	1428.2	1411.2	1399.8	1397.0	1347.9	1281.9	1191.2	1111.9
25°	1465.0	1465.0	1465.0	1458.4	1442.3	1438.5	1438.5	1396.1	1325.3	1219.6	1128.9
27.5°	1534.8	1531.0	1526.3	1507.4	1480.1	1479.1	1484.8	1445.2	1375.3	1256.4	1149.7
30°	1637.7	1635.8	1617.9	1578.2	1532.0	1527.3	1531.0	1498.0	1429.1	1295.1	1173.3
32.5°	1770.8	1764.2	1727.4	1667.9	1601.8	1580.1	1587.7	1552.8	1485.7	1334.7	1196.0
35°	1865.2	1867.1	1840.7	1786.9	1708.5	1650.9	1656.6	1614.1	1547.1	1379.1	1224.3
37.5°	1973.7	1980.4	1940.7	1900.1	1827.4	1729.3	1734.9	1677.4	1608.4	1434.8	1254.5
40°	2123.8	2110.6	2043.6	1995.5	1915.2	1811.4	1816.1	1748.2	1679.2	1487.6	1289.4
42.5°	2249.4	2225.8	2144.6	2083.2	1987.0	1898.2	1903.0	1824.6	1751.0	1546.2	1328.1
45°	2429.7	2364.5	2247.5	2217.3	2060.6	1983.2	1987.9	1905.8	1826.5	1608.4	1369.6
47.5°	2534.4	2430.6	2356.0	2340.0	2141.8	2071.0	2076.6	1991.7	1907.7	1679.2	1413.1
50°	2527.8	2460.8	2439.1	2399.5	2213.5	2153.1	2158.8	2080.4	1989.8	1749.1	1454.6
52.5°	2484.4	2496.7	2485.4	2419.3	2285.2	2232.4	2239.0	2168.2	2073.8	1814.2	1493.3
55°	2551.4	2559.9	2538.2	2451.4	2364.5	2311.7	2319.2	2260.7	2156.9	1871.8	1526.3
57.5°	2631.7	2601.5	2579.7	2508.0	2446.7	2397.6	2406.1	2355.1	2228.6	1918.1	1551.8
60°	2627.9	2564.6	2586.4	2511.8	2502.3	2476.9	2484.4	2432.5	2283.4	1952.0	1562.2
62.5°	2434.4	2400.4	2509.9	2484.4	2547.7	2547.7	2557.1	2479.7	2316.4	1966.2	1556.5
65°	2098.3	2100.2	2292.8	2398.5	2601.5	2644.9	2652.4	2509.0	2297.5	1924.7	1503.7
67.5°	1671.7	1684.0	1960.5	2180.5	2547.7	2711.0	2711.9	2535.4	2216.3	1807.6	1381.0
70°	1223.3	1232.8	1559.4	1826.5	2293.7	2564.6	2549.5	2460.8	2039.8	1603.7	1189.3
72.5°	826.9	835.4	1171.4	1402.7	1882.2	2184.2	2151.2	2174.8	1738.7	1317.7	956.2
75°	556.0	566.4	833.5	1003.4	1384.7	1658.5	1584.9	1647.2	1345.1	997.7	697.6
77.5°	350.2	356.8	529.5	657.9	945.8	1128.9	1055.3	1056.3	775.0	537.1	374.7
80°	222.8	224.7	320.9	379.5	547.5	678.7	600.3	488.0	349.3	285.1	223.7
82.5°	129.3	126.5	191.6	214.3	260.5	257.7	213.3	202.0	152.9	142.5	114.2
85°	51.9	48.1	84.0	78.3	79.3	84.0	62.3	62.3	50.0	38.7	28.3
87.5°	10.4	10.4	11.3	10.4	10.4	11.3	8.5	8.5	7.6	7.6	7.6
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°	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5
2.5°	1027.0	1025.1	1020.4	1008.1	1001.5	997.7	992.1	990.2	989.2	990.2	993.0
5°	1029.8	1023.2	1010.0	990.2	977.0	968.5	959.0	955.3	952.4	952.4	955.3
7.5°	1031.7	1021.3	998.7	969.4	950.5	937.3	926.0	921.3	920.3	923.2	924.1
10°	1032.7	1017.6	985.5	948.6	924.1	907.1	895.8	893.0	895.8	901.4	902.4
12.5°	1039.3	1018.5	977.9	934.5	905.2	888.2	879.7	879.7	887.3	897.7	898.6
15°	1050.6	1025.1	974.1	923.2	893.0	877.9	875.0	879.7	891.1	907.1	909.0
17.5°	1059.1	1028.9	965.6	908.1	876.9	867.5	872.2	883.5	899.6	921.3	923.2
20°	1064.7	1028.9	953.4	890.1	860.9	859.0	872.2	890.1	907.1	932.6	935.4
22.5°	1070.4	1027.0	939.2	868.4	842.9	848.6	873.1	895.8	912.8	940.2	944.9
25°	1080.8	1029.8	925.0	846.7	824.0	840.1	872.2	899.6	917.5	945.8	953.4
27.5°	1095.0	1036.4	914.7	826.9	805.2	826.9	865.6	898.6	917.5	944.9	953.4
30°	1110.1	1044.0	902.4	805.2	783.5	808.0	851.4	888.2	909.9	935.4	945.8
32.5°	1126.1	1052.5	892.0	781.6	757.0	782.5	830.7	872.2	895.8	919.4	930.7
35°	1147.8	1067.6	886.3	762.7	733.4	756.1	804.2	851.4	876.9	898.6	911.8
37.5°	1174.2	1086.5	883.5	743.8	707.9	726.8	775.9	825.9	853.3	871.2	883.5
40°	1204.4	1110.1	882.6	725.9	682.5	696.6	746.6	796.7	823.1	837.3	847.6
42.5°	1238.4	1136.5	880.7	707.9	657.0	668.3	718.3	767.4	790.1	802.3	811.8
45°	1274.3	1162.9	876.9	686.2	629.6	642.8	689.1	732.5	756.1	766.5	776.9
47.5°	1310.2	1189.3	869.4	661.7	605.1	617.3	657.9	695.7	714.6	724.0	734.4
50°	1345.1	1212.9	851.4	633.4	579.6	590.9	622.0	647.5	661.7	669.2	679.6
52.5°	1376.2	1229.0	825.9	600.3	554.1	559.7	580.5	602.2	613.6	614.5	623.9
55°	1402.7	1237.5	789.1	566.4	526.7	527.7	539.0	556.0	560.7	556.9	563.5
57.5°	1417.8	1232.8	748.5	531.4	498.4	494.6	503.1	511.6	512.6	503.1	509.7
60°	1421.6	1211.1	695.7	496.5	470.1	459.7	462.5	460.6	458.7	455.0	460.6
62.5°	1402.7	1164.8	637.1	462.5	439.9	423.8	422.9	421.9	424.8	425.7	426.7
65°	1333.8	1078.0	567.3	427.6	407.8	386.1	385.1	396.4	400.2	394.6	396.4
67.5°	1200.7	944.9	490.8	387.0	367.2	348.3	355.9	362.5	369.1	367.2	369.1
70°	1011.9	775.9	421.0	341.7	322.8	312.4	320.9	326.6	327.5	325.7	327.5
72.5°	795.7	606.0	355.9	295.4	278.5	273.7	284.1	288.8	297.3	301.1	302.1
75°	574.9	447.4	291.7	245.4	231.3	231.3	240.7	249.2	256.7	252.0	249.2
77.5°	320.9	267.1	209.6	169.0	171.8	185.0	188.8	198.2	205.8	204.8	202.9
80°	194.4	167.1	141.6	109.5	108.6	118.9	143.5	159.5	163.3	154.8	153.9
82.5°	101.0	87.8	75.5	61.4	68.0	79.3	83.1	100.1	110.4	106.7	111.4
85°	25.5	24.5	27.4	28.3	34.9	38.7	42.5	50.0	33.0	16.0	16.0
87.5°	7.6	7.6	9.4	9.4	12.3	15.1	14.2	14.2	7.6	0.9	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)