

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: P799477

Luminaire Tested: **ARCH2-30-722-U-T2U**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-722-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

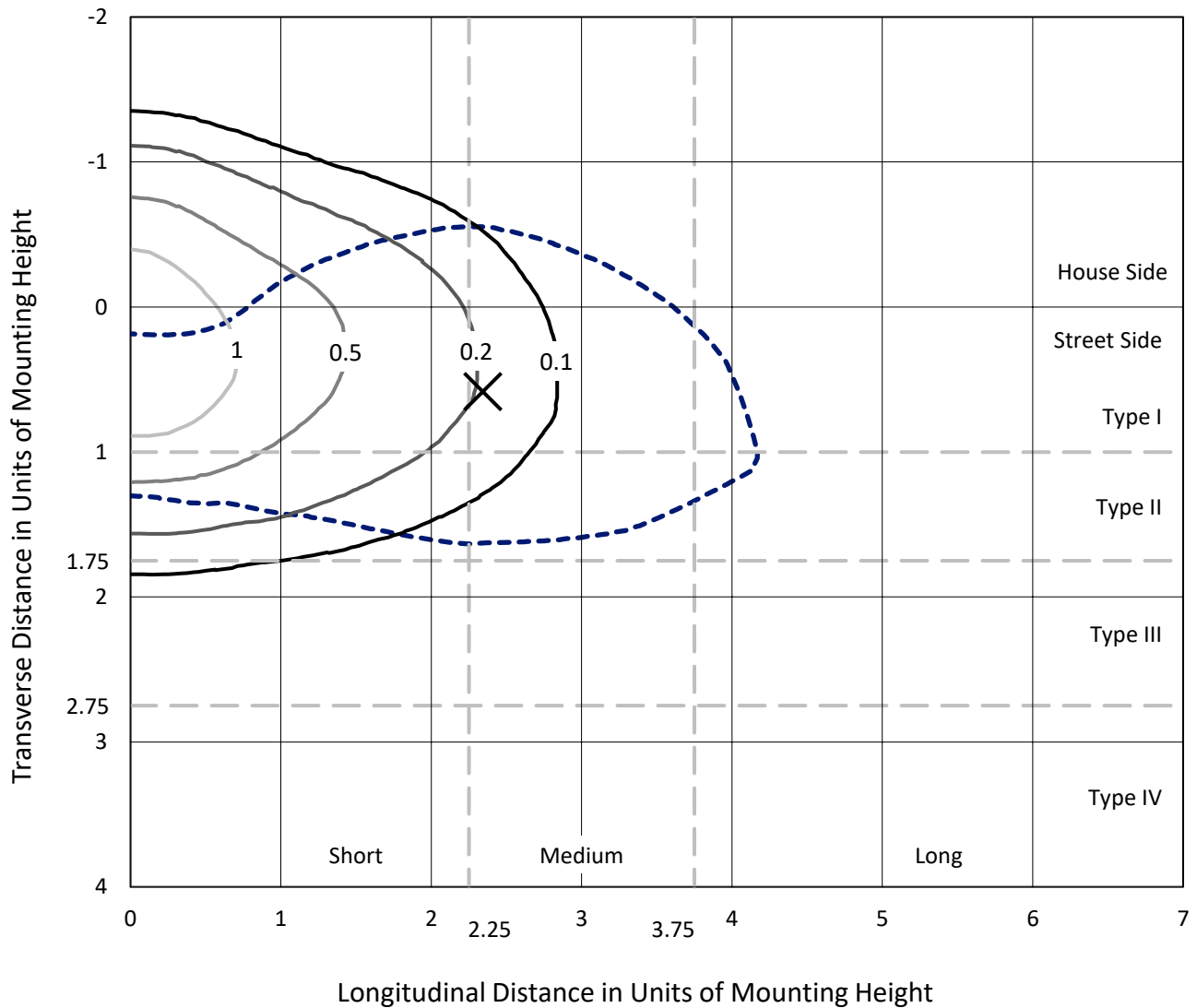
Lumens per Lamp: N/A  
Luminaire Lumens: 4488 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.4  
Input Voltage (V): NR  
Input Current (Ain): 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

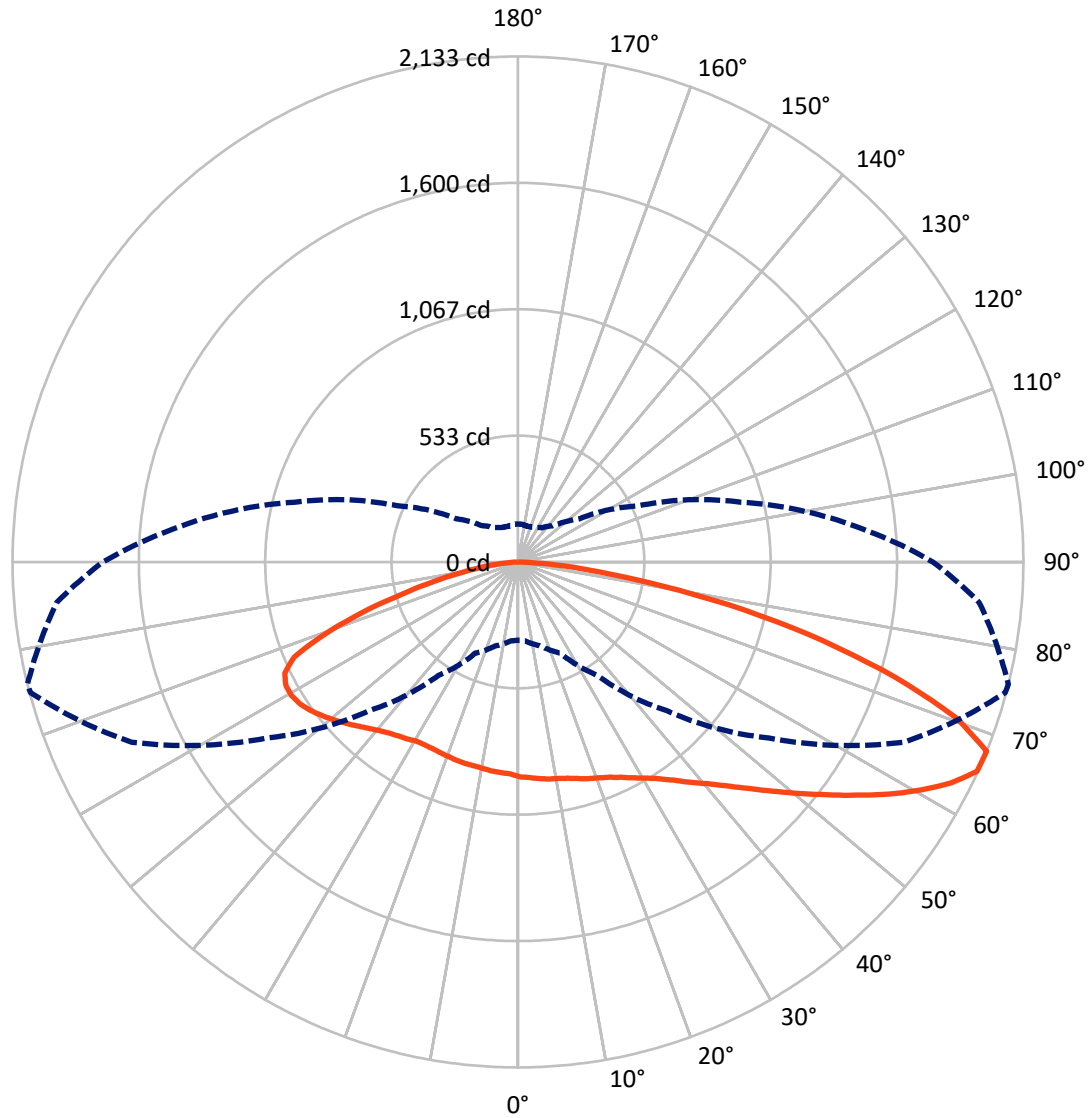
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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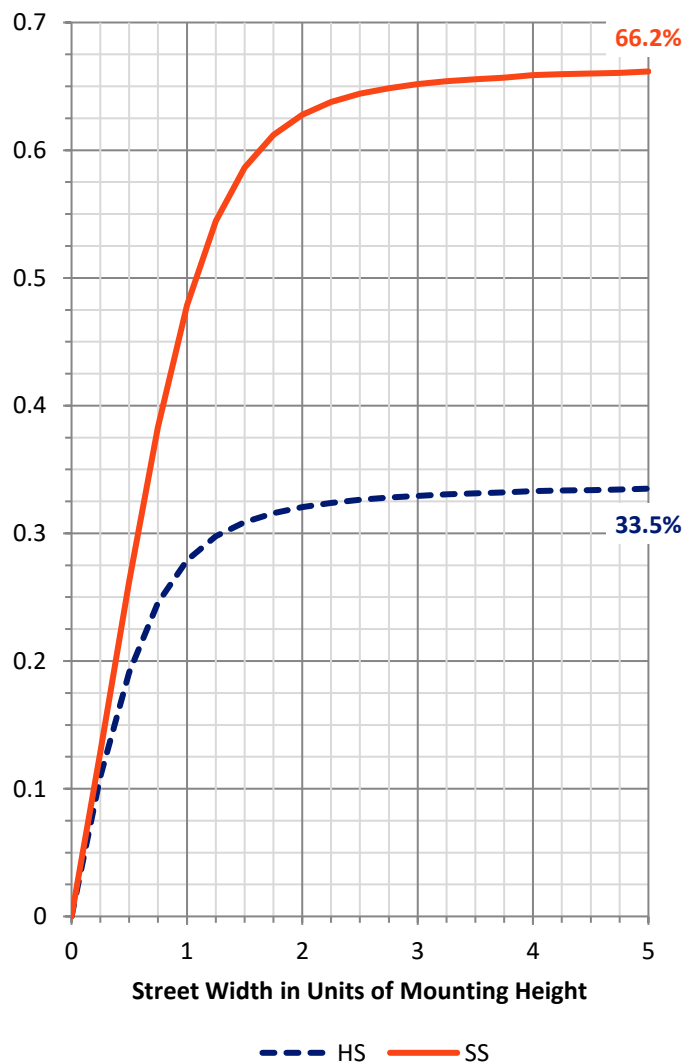
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1516.5	0.0	1516.5
	% Fixture	33.8	0.0	33.8
<b>Street Side</b>	Lumens	2971.5	0.0	2971.5
	% Fixture	66.2	0.0	66.2
<b>Total</b>	Lumens	4488.0	0.0	4488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	1.9
10°-20°	267.3	6.0
20°-30°	454.1	10.1
30°-40°	646.1	14.4
40°-50°	816.0	18.2
50°-60°	883.5	19.7
60°-70°	821.7	18.3
70°-80°	441.3	9.8
80°-90°	70.7	1.6
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°	4488.0	100.0
0°-180°	4488.0	100.0

**Coefficient of Utilization**



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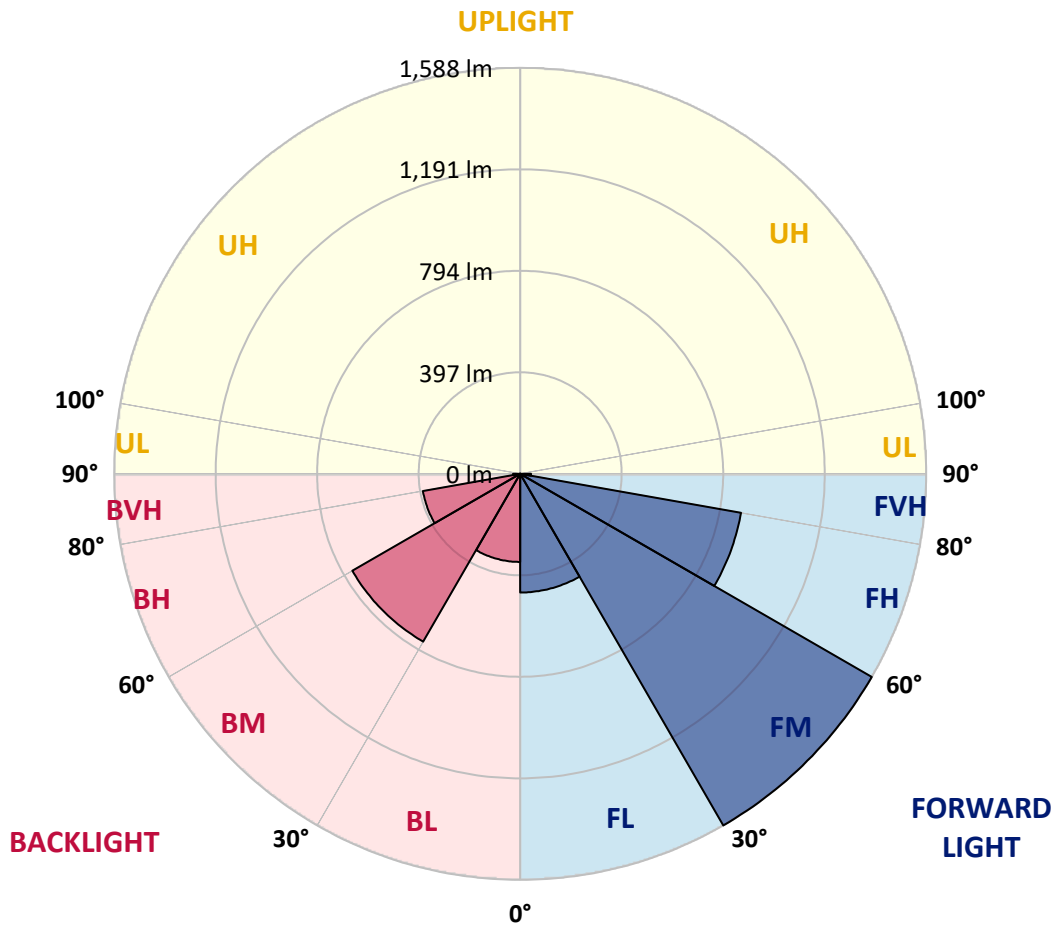
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.1	10.3			
FM (30°-60°)	1587.7	35.4			
FH (60°-80°)	876.9	19.5			G1/1800
FVH (80°-90°)	42.8	1.0			G1/100
BL (0°-30°)	344.6	7.7	B1/500		
BM (30°-60°)	757.8	16.9	B1/1000		
BH (60°-80°)	386.1	8.6	B1/500		G1/500
BVH (80°-90°)	27.9	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6
2.5°	934.1	932.4	925.7	926.6	926.6	925.7	915.7	911.6	911.6	910.7	901.6
5°	967.4	964.9	957.4	955.7	952.4	948.2	932.4	923.2	919.1	918.2	905.7
7.5°	1006.6	1003.2	994.1	989.1	980.7	969.9	949.9	935.7	925.7	924.9	907.4
10°	1045.7	1042.4	1031.6	1022.4	1010.7	993.2	967.4	946.6	930.7	929.1	908.2
12.5°	1092.4	1089.0	1075.7	1064.0	1046.6	1023.2	989.1	960.7	939.1	936.6	910.7
15°	1141.5	1136.5	1123.2	1109.9	1088.2	1058.2	1017.4	979.9	952.4	948.2	918.2
17.5°	1182.4	1175.7	1164.9	1151.5	1127.4	1092.4	1045.7	999.1	964.9	961.6	925.7
20°	1217.4	1212.4	1200.7	1188.2	1162.4	1124.0	1072.4	1018.2	976.6	972.4	931.6
22.5°	1250.7	1244.0	1237.4	1228.2	1199.9	1157.4	1103.2	1041.6	991.6	986.6	939.1
25°	1289.0	1281.5	1279.0	1274.0	1240.7	1197.4	1140.7	1070.7	1012.4	1006.6	952.4
27.5°	1336.5	1328.2	1323.2	1323.2	1283.2	1238.2	1180.7	1104.9	1036.6	1031.6	969.1
30°	1386.5	1376.5	1369.0	1369.0	1324.0	1279.0	1219.9	1139.0	1064.0	1058.2	990.7
32.5°	1430.7	1420.7	1412.3	1411.5	1364.8	1319.9	1260.7	1176.5	1097.4	1089.9	1017.4
35°	1464.8	1455.7	1448.2	1449.8	1405.7	1361.5	1306.5	1226.5	1139.0	1130.7	1052.4
37.5°	1485.7	1482.3	1478.2	1484.0	1443.2	1401.5	1354.0	1274.9	1186.5	1179.0	1095.7
40°	1496.5	1494.0	1510.7	1518.2	1474.8	1437.3	1401.5	1324.9	1238.2	1229.9	1145.7
42.5°	1512.3	1533.2	1539.8	1538.2	1498.2	1464.8	1444.8	1379.0	1299.0	1291.5	1205.7
45°	1455.7	1450.7	1487.3	1507.3	1499.8	1482.3	1485.7	1444.0	1369.8	1362.3	1274.9
47.5°	1379.8	1373.2	1394.0	1443.2	1472.3	1489.0	1522.3	1511.5	1451.5	1444.8	1355.7
50°	1219.9	1229.0	1306.5	1372.3	1429.8	1487.3	1553.2	1584.0	1541.5	1534.8	1442.3
52.5°	1042.4	1051.6	1132.4	1284.0	1378.2	1474.8	1575.7	1656.5	1639.0	1631.5	1534.8
55°	913.2	933.2	1024.9	1134.9	1304.9	1435.7	1589.0	1730.6	1744.0	1737.3	1635.7
57.5°	784.9	799.9	869.1	966.6	1204.9	1367.3	1588.2	1799.8	1854.0	1847.3	1738.1
60°	634.1	653.3	708.3	813.2	1071.5	1285.7	1564.8	1854.0	1959.8	1954.8	1837.3
62.5°	530.8	536.6	575.8	666.6	899.9	1182.4	1512.3	1883.1	2055.6	2052.3	1926.5
65°	427.5	428.3	464.1	539.9	734.1	1054.0	1423.2	1872.3	2128.1	2129.8	1990.6
67.5°	330.0	334.1	366.6	424.1	583.3	887.4	1295.7	1799.0	2128.9	2133.1	1953.9
70°	228.3	231.6	280.8	336.6	450.8	707.4	1123.2	1604.8	1953.9	1957.3	1751.5
72.5°	160.8	162.5	215.0	269.1	352.5	533.3	847.4	1327.4	1665.6	1668.1	1473.2
75°	120.0	121.7	151.6	204.1	270.0	369.1	579.1	1016.6	1330.7	1330.7	1163.2
77.5°	85.0	85.8	98.3	140.8	180.0	249.1	348.3	665.8	976.6	978.2	847.4
80°	57.5	58.3	64.2	95.0	112.5	135.0	189.1	349.1	615.8	618.3	538.3
82.5°	30.0	31.7	35.8	48.3	56.7	75.0	97.5	177.5	340.8	347.5	323.3
85°	11.7	11.7	13.3	15.8	20.8	29.2	45.0	67.5	154.1	159.1	142.5
87.5°	4.2	4.2	5.0	5.0	5.8	6.7	7.5	10.0	17.5	17.5	16.7
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°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6
2.5°	898.2	898.2	894.1	895.7	894.9	893.2	891.6	894.1	891.6	885.7	884.9
5°	899.9	898.2	891.6	890.7	888.2	884.9	880.7	882.4	878.2	873.2	872.4
7.5°	900.7	897.4	888.2	884.9	879.9	873.2	866.6	866.6	860.7	855.7	854.9
10°	899.1	894.9	882.4	875.7	866.6	856.6	847.4	844.9	838.2	832.4	832.4
12.5°	899.9	894.1	878.2	867.4	854.9	842.4	830.7	827.4	821.6	815.7	814.9
15°	904.9	896.6	876.6	862.4	844.1	829.9	817.4	814.9	809.9	805.7	805.7
17.5°	909.9	899.1	874.1	854.1	831.6	815.7	804.1	804.1	800.7	798.2	798.2
20°	912.4	899.9	869.1	842.4	816.6	799.9	789.1	790.7	789.9	789.1	789.1
22.5°	918.2	901.6	864.9	831.6	800.7	783.2	773.2	775.7	774.9	774.9	775.7
25°	927.4	905.7	861.6	821.6	785.7	766.6	755.7	757.4	757.4	757.4	757.4
27.5°	939.9	914.1	860.7	812.4	770.7	749.1	735.8	735.8	732.4	733.3	734.1
30°	959.1	929.9	862.4	804.1	754.9	727.4	711.6	709.1	708.3	709.9	710.8
32.5°	982.4	951.6	872.4	798.2	738.3	703.3	683.3	682.4	679.9	679.9	679.9
35°	1011.6	972.4	881.6	797.4	721.6	677.4	655.8	653.3	647.4	644.9	644.9
37.5°	1049.1	1004.9	892.4	791.6	707.4	652.4	626.6	618.3	611.6	610.8	610.8
40°	1094.9	1041.6	908.2	784.9	692.4	626.6	592.4	578.3	579.1	582.4	582.4
42.5°	1149.0	1086.5	928.2	781.6	670.8	599.9	552.4	535.8	541.6	544.9	545.8
45°	1212.4	1139.9	950.7	777.4	650.8	569.9	509.9	489.1	491.6	492.4	493.3
47.5°	1285.7	1199.0	974.1	774.1	628.3	532.4	463.3	435.8	435.0	430.0	431.6
50°	1362.3	1261.5	998.2	768.2	600.8	488.3	414.1	381.6	375.0	367.5	368.3
52.5°	1444.0	1325.7	1020.7	759.1	566.6	443.3	367.5	332.5	319.1	310.8	312.5
55°	1534.0	1391.5	1042.4	744.9	530.8	398.3	325.8	290.0	273.3	266.6	267.5
57.5°	1616.5	1454.8	1058.2	727.4	491.6	357.5	289.1	254.1	243.3	242.5	243.3
60°	1696.5	1508.2	1064.9	703.3	451.6	320.0	255.0	228.3	220.8	225.0	225.8
62.5°	1764.0	1542.3	1061.5	670.8	410.8	284.1	227.5	208.3	203.3	211.6	212.5
65°	1803.1	1553.2	1038.2	624.1	366.6	249.1	201.6	180.8	178.3	183.3	185.8
67.5°	1751.5	1485.7	974.9	559.9	317.5	216.6	176.6	160.0	155.8	160.0	160.0
70°	1552.3	1287.4	824.9	458.3	263.3	185.0	153.3	141.7	138.3	141.7	140.8
72.5°	1293.2	1070.7	649.9	357.5	207.5	155.8	133.3	122.5	119.2	115.8	114.2
75°	1003.2	813.2	471.6	262.5	156.6	125.0	111.7	101.7	93.3	96.7	95.0
77.5°	734.9	570.8	334.1	181.6	112.5	96.7	87.5	80.0	74.2	80.8	80.0
80°	473.3	369.1	223.3	121.7	77.5	67.5	64.2	60.0	65.8	85.8	87.5
82.5°	289.1	234.1	133.3	79.2	50.8	45.0	41.7	41.7	67.5	74.2	75.0
85°	129.2	124.2	72.5	40.8	28.3	25.8	23.3	30.0	27.5	20.0	20.8
87.5°	20.8	21.7	15.8	14.2	10.8	10.8	8.3	5.8	4.2	2.5	2.5
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)