

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: P798723

Luminaire Tested: **ARCH1-30-727-U-T2R**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-30-727-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

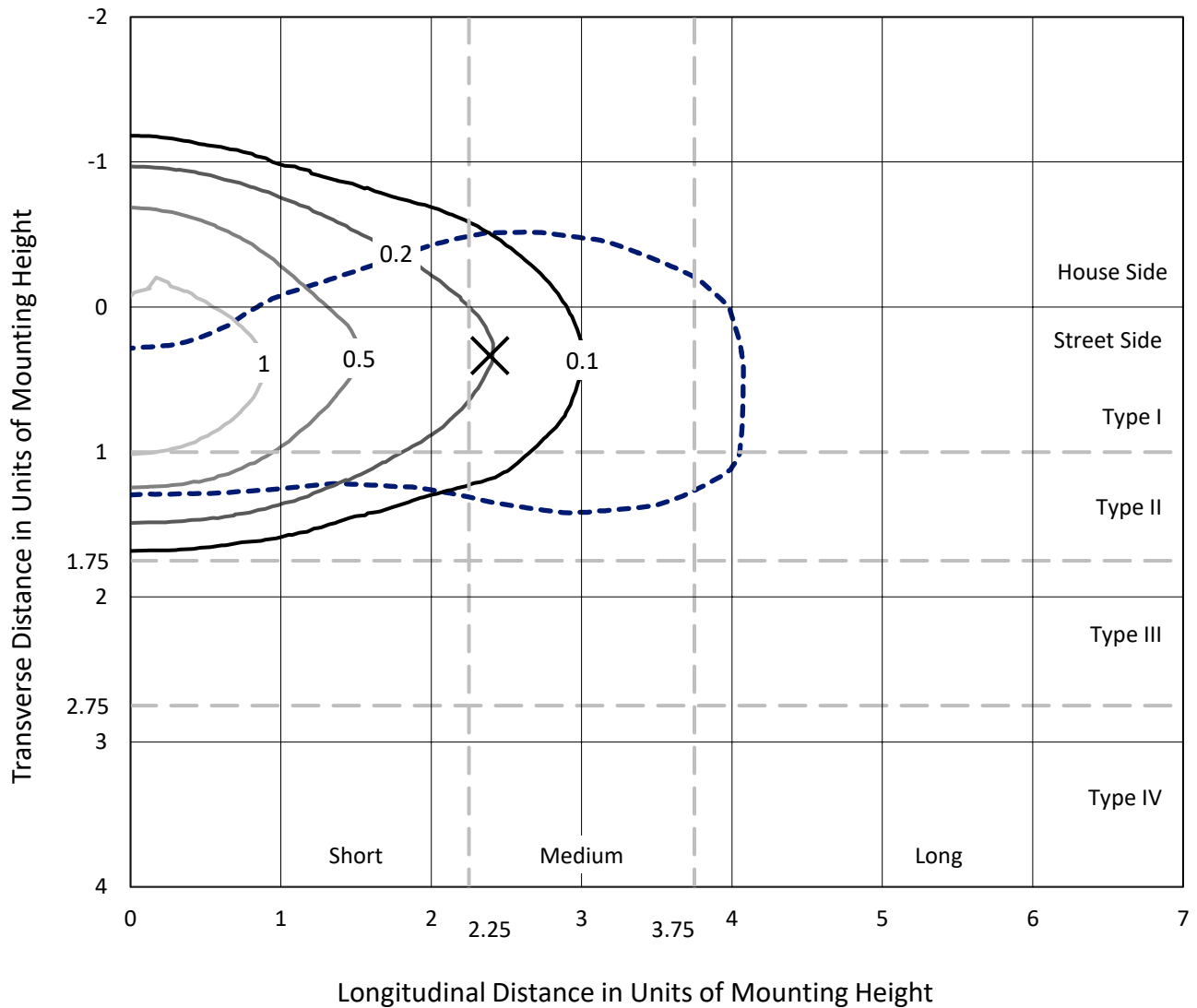
Lumens per Lamp: N/A  
Luminaire Lumens: 4404 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

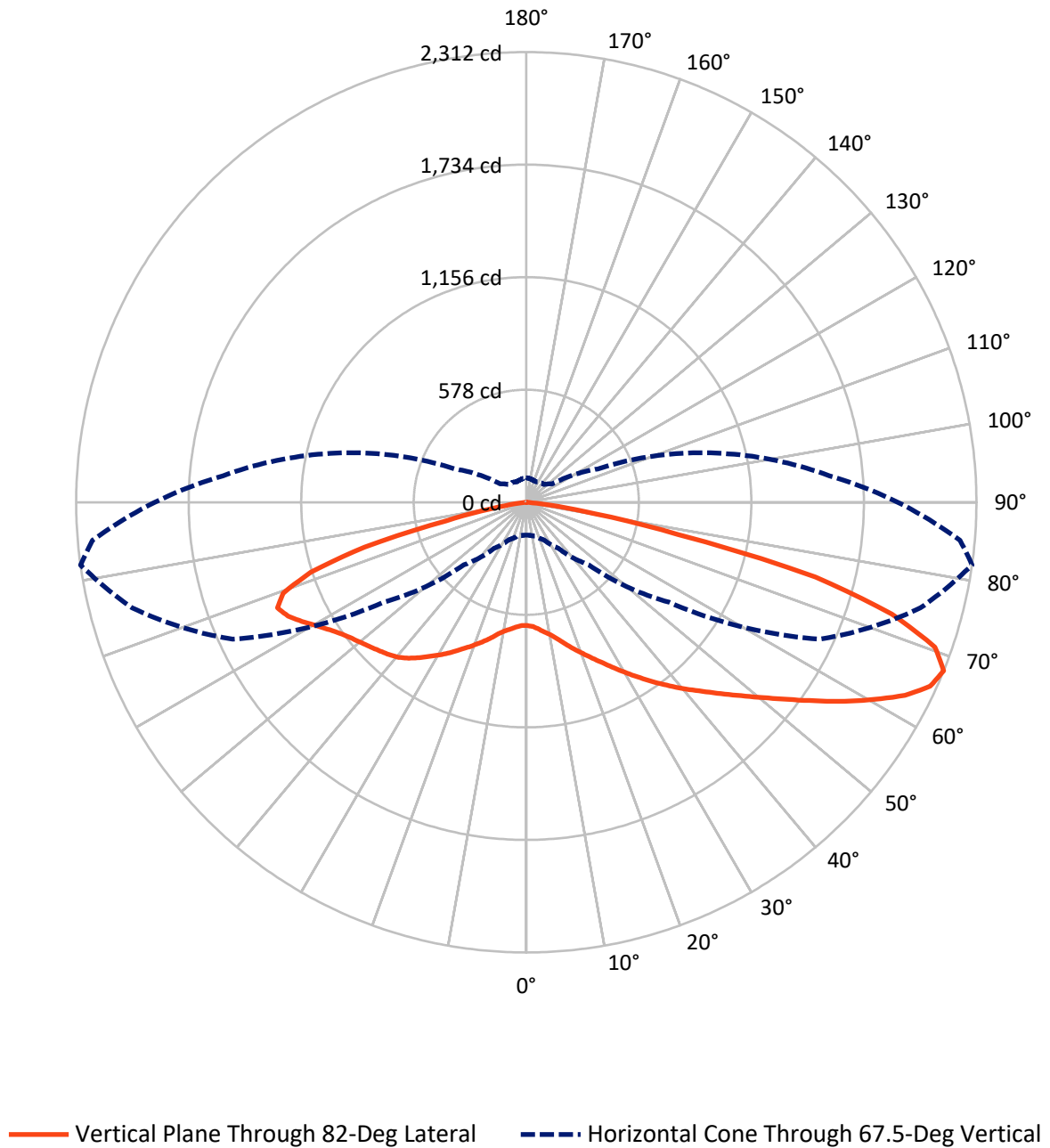
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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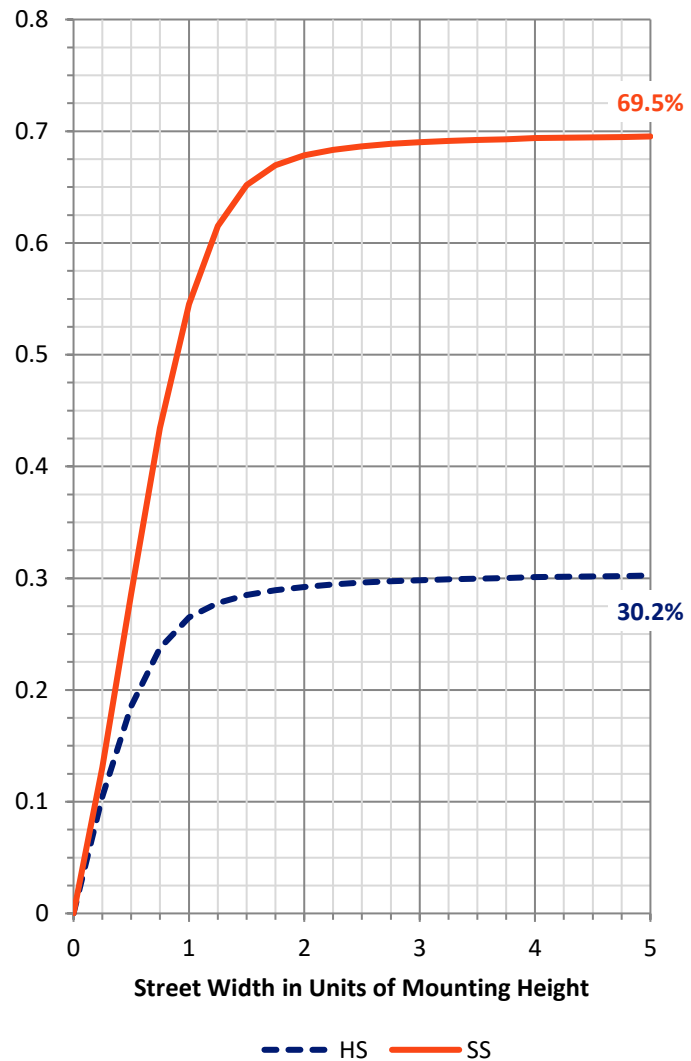
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1341.2	0.0	1341.2
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	3062.8	0.0	3062.8
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	4404.0	0.0	4404.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	1.5
10°-20°	235.7	5.4
20°-30°	473.6	10.8
30°-40°	744.0	16.9
40°-50°	906.3	20.6
50°-60°	856.4	19.4
60°-70°	707.2	16.1
70°-80°	385.1	8.7
80°-90°	30.3	0.7
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°	4404.0	100.0
0°-180°	4404.0	100.0

**Coefficient of Utilization**



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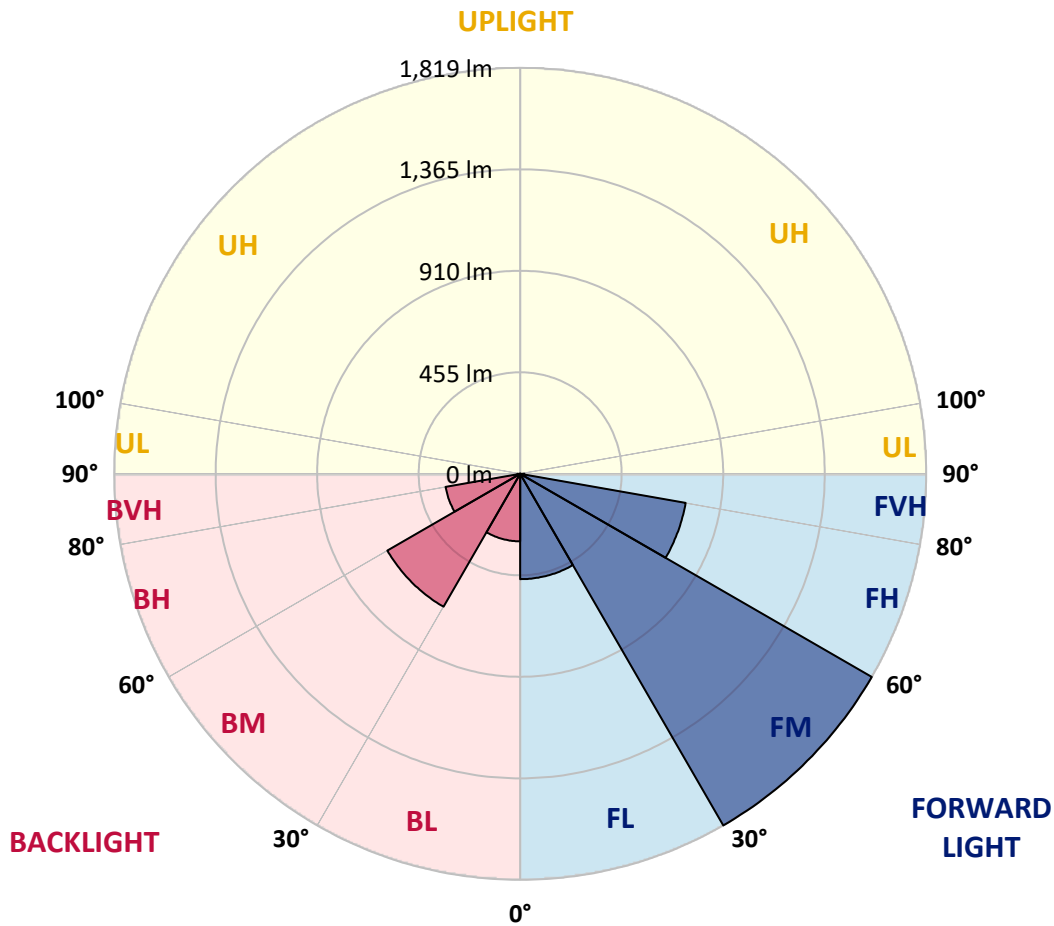
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.3	10.7			
FM (30°-60°)	1819.5	41.3			
FH (60°-80°)	752.8	17.1			G1/1800
FVH (80°-90°)	18.3	0.4			G1/100
BL (0°-30°)	302.4	6.9	B1/500		
BM (30°-60°)	687.3	15.6	B1/1000		
BH (60°-80°)	339.5	7.7	B1/500		G1/500
BVH (80°-90°)	12.0	0.3			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°	82°	85°
0°	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1
2.5°	661.8	661.8	667.0	667.0	662.5	655.5	653.5	645.9	638.8	638.8	639.5
5°	725.2	724.5	728.4	723.2	712.4	698.3	688.7	672.1	658.0	653.5	652.9
7.5°	802.5	801.9	803.8	795.5	775.0	752.0	732.8	706.0	683.0	673.4	670.8
10°	888.9	888.2	886.3	872.2	844.7	808.9	780.2	743.1	708.5	693.2	690.0
12.5°	988.0	986.7	982.2	961.8	924.0	878.0	836.4	788.5	742.4	721.3	714.3
15°	1098.6	1096.7	1088.4	1063.4	1012.9	954.7	901.0	839.6	783.3	755.9	746.3
17.5°	1215.0	1215.0	1202.2	1165.1	1108.8	1036.6	970.1	892.1	826.2	792.3	780.8
20°	1333.3	1332.7	1316.7	1271.9	1205.4	1122.3	1037.9	952.2	870.3	829.4	815.3
22.5°	1458.0	1456.7	1436.9	1385.7	1306.4	1212.4	1114.0	1011.6	918.9	869.7	851.8
25°	1601.2	1599.3	1575.0	1512.3	1418.3	1312.2	1199.6	1081.3	974.5	914.4	893.3
27.5°	1753.4	1750.9	1722.1	1649.2	1546.2	1418.3	1294.3	1161.9	1035.9	964.3	940.7
30°	1889.0	1887.1	1855.7	1780.9	1662.6	1523.9	1384.4	1242.5	1100.5	1017.4	988.0
32.5°	1991.3	1991.3	1963.2	1889.6	1766.8	1624.9	1475.3	1318.6	1167.7	1074.3	1039.8
35°	2053.3	2055.2	2030.9	1972.1	1856.4	1720.2	1569.3	1408.1	1239.3	1135.1	1098.0
37.5°	2062.3	2068.7	2054.6	2015.0	1918.4	1799.5	1661.3	1494.4	1313.5	1196.4	1154.9
40°	2020.7	2025.2	2025.8	2010.5	1944.0	1856.4	1742.5	1585.9	1392.1	1261.0	1213.1
42.5°	1937.6	1940.8	1946.5	1951.0	1925.4	1881.3	1804.6	1670.9	1475.9	1326.9	1270.6
45°	1830.2	1829.5	1839.1	1858.3	1857.0	1867.2	1839.1	1748.3	1562.9	1401.7	1334.6
47.5°	1669.6	1666.5	1700.3	1743.8	1765.6	1813.5	1839.7	1809.1	1657.5	1484.2	1407.5
50°	1418.3	1415.1	1489.3	1591.6	1655.6	1728.5	1804.6	1845.5	1756.6	1576.9	1486.8
52.5°	1112.7	1109.5	1203.5	1382.5	1521.9	1628.1	1733.6	1853.8	1850.6	1680.5	1576.3
55°	827.5	824.9	916.4	1110.1	1335.8	1511.7	1646.6	1832.1	1938.9	1799.5	1685.0
57.5°	583.2	581.9	661.2	821.7	1096.7	1369.7	1562.9	1789.9	2020.1	1928.6	1807.8
60°	409.3	407.3	464.9	588.9	829.4	1155.5	1479.7	1733.6	2080.8	2055.9	1938.2
62.5°	275.6	274.3	315.3	418.9	588.9	889.5	1353.8	1695.9	2115.4	2183.8	2070.0
65°	209.1	208.5	227.0	283.9	416.9	638.8	1153.6	1691.4	2119.8	2279.7	2181.9
67.5°	168.8	169.5	179.7	212.3	288.4	454.0	894.6	1663.3	2096.2	2312.3	2236.2
70°	138.1	138.1	142.6	164.3	212.9	306.3	624.8	1535.4	2030.3	2227.3	2171.6
72.5°	105.5	106.2	120.2	133.0	160.5	214.9	400.3	1270.6	1874.9	1963.8	1921.6
75°	83.8	83.1	91.4	109.3	124.7	153.5	245.6	911.2	1595.5	1534.7	1507.9
77.5°	60.1	59.5	65.9	81.2	94.6	108.7	146.4	459.8	867.8	797.4	777.6
80°	40.9	39.6	45.4	56.3	62.7	63.9	71.6	176.5	378.6	356.8	352.3
82.5°	21.1	21.1	24.3	32.0	32.6	33.3	32.0	56.9	125.3	117.0	111.9
85°	8.3	8.3	9.0	10.9	10.9	11.5	11.5	14.7	13.4	12.8	12.1
87.5°	0.6	0.6	1.3	1.3	1.9	1.9	1.9	2.6	3.2	3.2	3.2
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°	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1
2.5°	638.2	635.6	627.3	625.4	624.1	622.2	622.8	618.4	616.4	617.1	614.5
5°	649.7	645.2	635.0	630.5	629.2	627.3	629.2	626.0	622.8	624.1	622.8
7.5°	665.7	659.3	646.5	642.0	641.4	639.5	642.0	639.5	636.9	638.2	635.6
10°	682.3	674.0	659.9	655.5	655.5	654.8	657.4	653.5	651.0	651.6	650.3
12.5°	706.6	695.7	680.4	676.6	674.6	676.6	677.2	672.1	667.6	668.2	666.3
15°	736.0	723.9	707.3	701.5	700.2	699.6	697.0	690.6	684.9	684.2	682.3
17.5°	768.0	752.7	732.8	727.1	721.3	719.4	713.0	704.7	695.7	695.7	693.2
20°	798.7	781.4	757.8	749.5	741.1	733.5	722.6	709.2	697.7	695.7	693.2
22.5°	831.9	811.5	784.0	771.8	757.1	741.8	723.2	705.3	690.6	687.4	685.5
25°	869.0	843.5	810.8	792.9	769.3	745.6	718.1	695.1	677.8	672.7	671.4
27.5°	910.0	879.3	839.6	813.4	778.9	741.8	706.6	679.1	658.0	651.6	649.7
30°	951.5	915.1	865.8	827.5	778.9	729.6	685.5	653.5	629.2	620.3	619.0
32.5°	993.1	952.2	889.5	835.1	771.2	709.2	658.0	620.3	592.8	581.9	584.5
35°	1043.0	993.1	911.2	838.3	758.4	684.2	626.7	582.6	554.4	544.8	546.7
37.5°	1094.8	1034.0	928.5	835.8	740.5	656.1	591.5	548.7	513.5	496.9	498.8
40°	1139.5	1071.1	940.7	826.8	717.5	624.1	557.0	500.7	452.1	436.1	434.2
42.5°	1181.7	1098.6	947.1	813.4	691.3	587.0	507.7	435.5	386.9	367.1	367.7
45°	1225.9	1125.5	944.5	795.5	658.7	543.5	444.4	371.5	328.7	310.8	311.4
47.5°	1276.4	1154.2	941.9	776.3	619.0	487.3	383.7	315.3	278.2	265.4	264.1
50°	1330.1	1186.2	938.7	752.7	574.9	424.6	323.6	262.8	231.5	223.2	221.3
52.5°	1390.8	1220.7	936.8	724.5	521.8	358.1	269.9	216.8	195.7	189.9	189.3
55°	1463.7	1261.0	939.4	690.6	457.9	295.4	224.5	186.7	172.7	169.5	168.8
57.5°	1552.6	1312.8	947.1	651.0	390.7	241.1	191.2	168.2	159.2	156.7	156.7
60°	1649.2	1371.7	961.1	606.2	323.6	198.9	169.5	153.5	149.6	152.8	152.8
62.5°	1753.4	1440.7	986.1	551.9	260.9	168.2	152.2	141.3	138.8	145.2	145.8
65°	1850.0	1507.9	1002.0	486.6	207.2	145.8	138.8	129.2	130.5	136.8	136.2
67.5°	1909.4	1563.5	979.7	404.8	164.3	129.2	124.7	116.4	119.6	124.7	125.3
70°	1873.0	1532.2	869.0	305.7	128.5	112.5	109.3	104.2	106.8	113.2	115.7
72.5°	1694.6	1372.3	675.9	206.5	103.6	94.6	95.9	93.4	96.6	102.3	108.1
75°	1375.5	1037.2	453.4	132.4	81.9	80.6	82.5	80.6	81.9	87.6	90.8
77.5°	718.1	505.8	225.7	82.5	60.7	62.7	65.9	66.5	70.3	71.6	72.9
80°	335.1	227.7	94.0	46.0	40.3	44.1	50.5	51.2	52.4	54.4	55.0
82.5°	109.3	68.4	43.5	24.9	23.0	24.9	32.6	39.0	39.6	43.5	43.5
85°	11.5	7.0	9.6	10.2	9.0	10.9	14.7	14.1	6.4	3.8	3.8
87.5°	3.2	2.6	3.2	3.2	2.6	2.6	1.9	0.6	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)