

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: P799491

Luminaire Tested: **ARCH2-30-727-U-T2R**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799491  
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: ARCH2-30-727-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

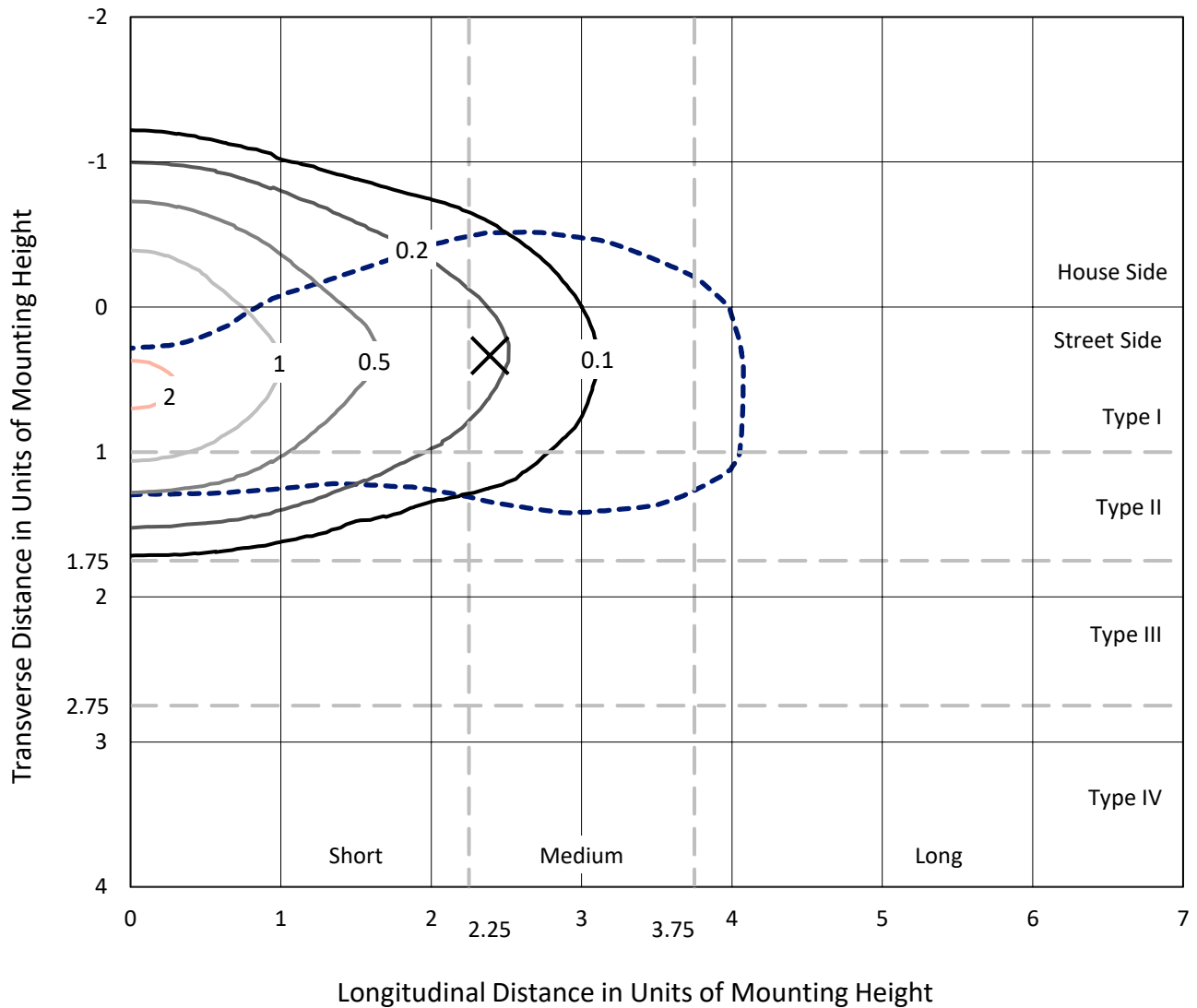
Lumens per Lamp: N/A  
Luminaire Lumens: 4952 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.4  
Input Voltage (V): NR  
Input Current (Ain): 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

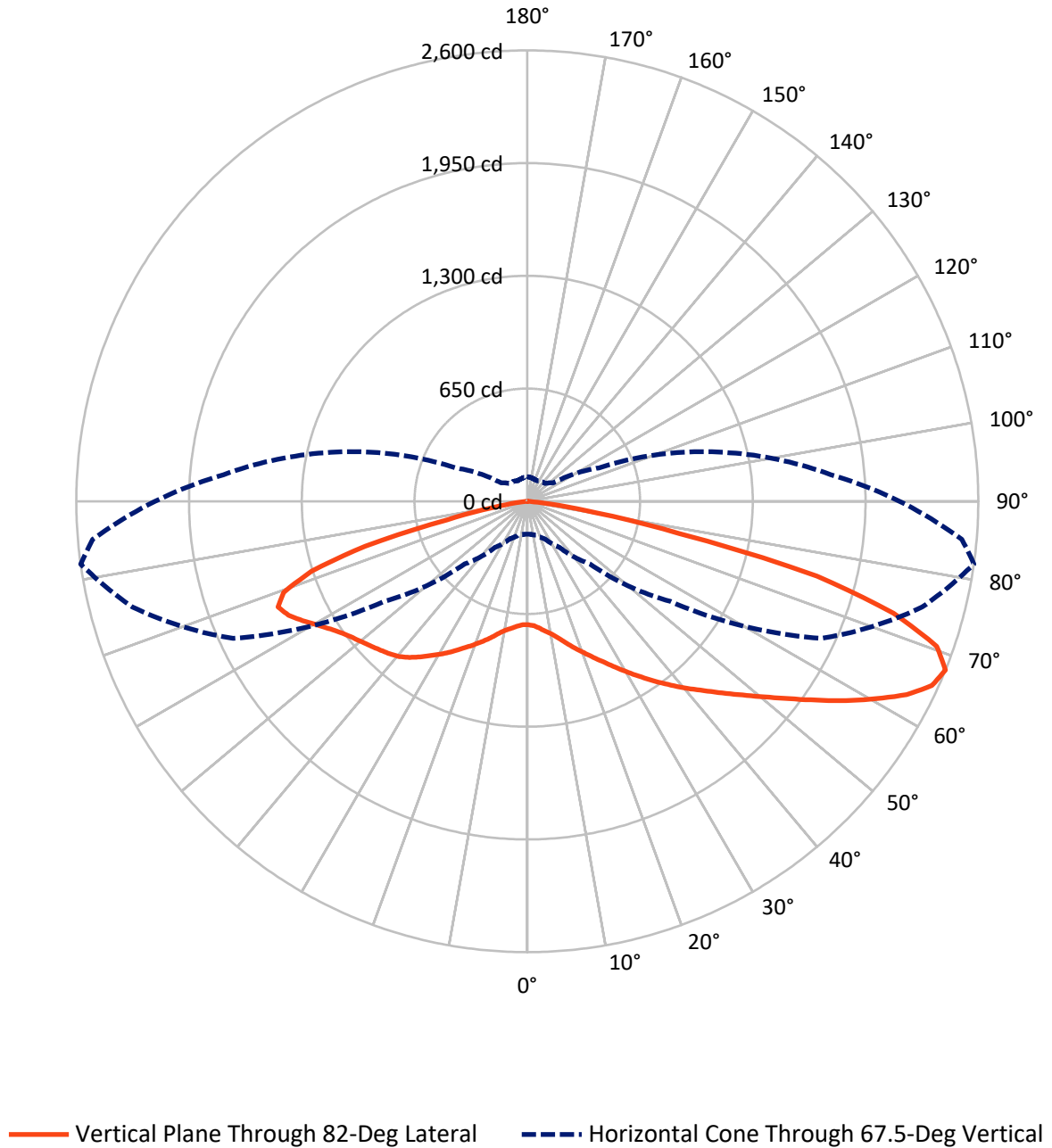
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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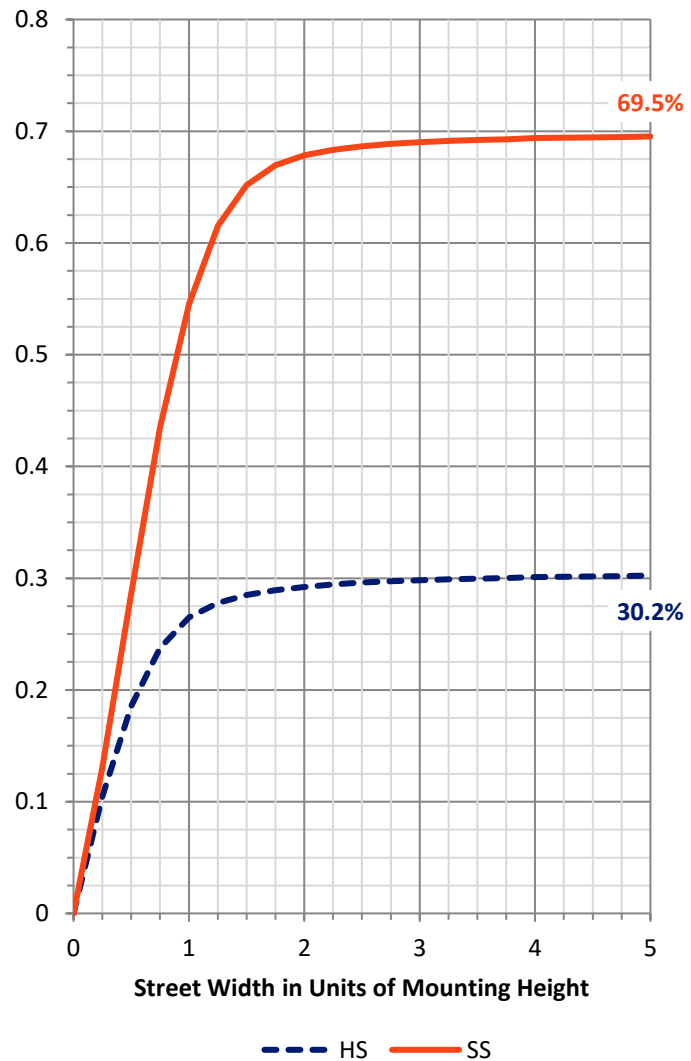
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1508.1	0.0	1508.1
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	3443.9	0.0	3443.9
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	4952.0	0.0	4952.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	1.5
10°-20°	265.0	5.4
20°-30°	532.6	10.8
30°-40°	836.6	16.9
40°-50°	1019.1	20.6
50°-60°	962.9	19.4
60°-70°	795.2	16.1
70°-80°	433.0	8.7
80°-90°	34.0	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°	4952.0	100.0
0°-180°	4952.0	100.0

**Coefficient of Utilization**



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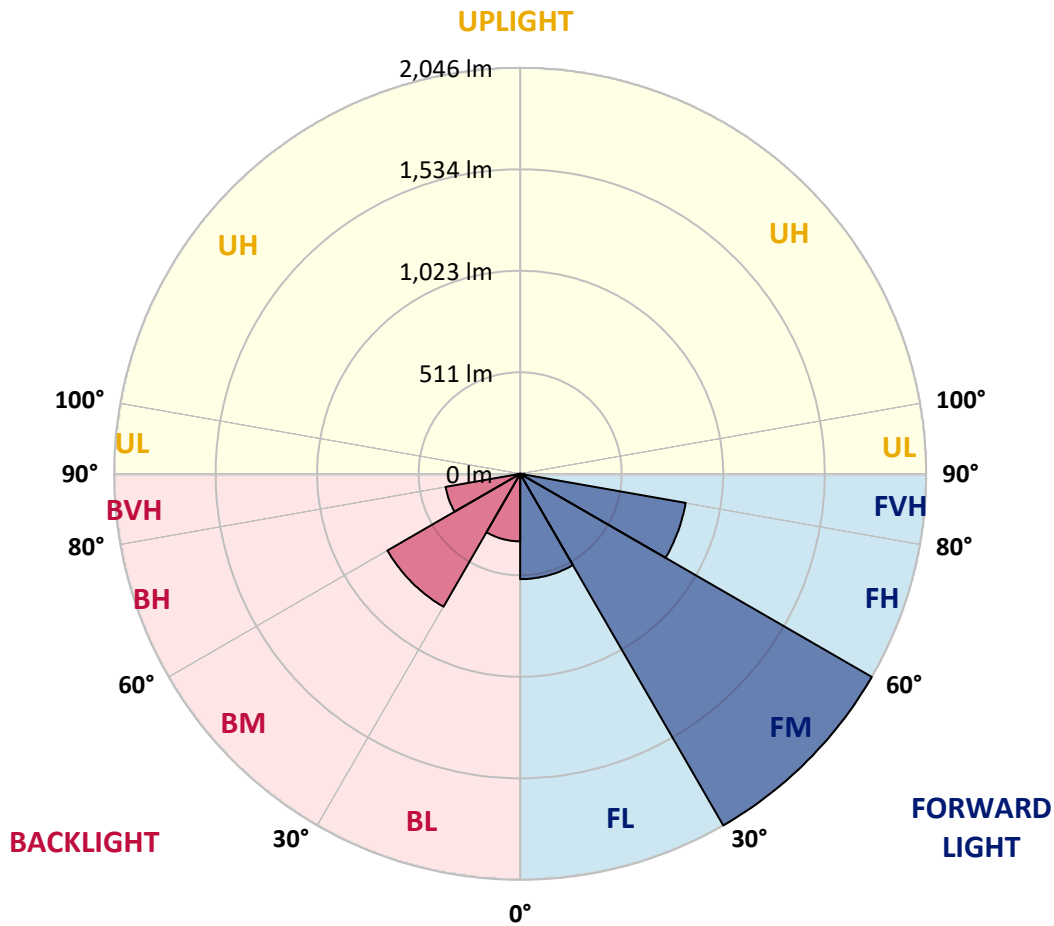
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.0	10.7			
FM (30°-60°)	2045.9	41.3			
FH (60°-80°)	846.5	17.1			G1/1800
FVH (80°-90°)	20.5	0.4			G1/100
BL (0°-30°)	340.1	6.9	B1/500		
BM (30°-60°)	772.8	15.6	B1/1000		
BH (60°-80°)	381.7	7.7	B1/500		G1/500
BVH (80°-90°)	13.5	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°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	744.2	744.2	750.0	750.0	744.9	737.0	734.9	726.2	718.3	718.3	719.0
5°	815.4	814.7	819.0	813.2	801.0	785.2	774.4	755.7	739.9	734.9	734.1
7.5°	902.4	901.7	903.8	894.5	871.5	845.6	824.0	793.8	767.9	757.1	754.3
10°	999.5	998.7	996.6	980.8	949.8	909.6	877.2	835.5	796.7	779.4	775.8
12.5°	1110.9	1109.5	1104.4	1081.4	1039.0	987.2	940.5	886.6	834.8	811.1	803.2
15°	1235.3	1233.1	1223.8	1195.8	1139.0	1073.5	1013.1	944.1	880.8	849.9	839.1
17.5°	1366.2	1366.2	1351.8	1310.1	1246.8	1165.6	1090.8	1003.1	929.0	890.9	877.9
20°	1499.2	1498.5	1480.5	1430.2	1355.4	1261.9	1167.0	1070.6	978.6	932.6	916.8
22.5°	1639.4	1638.0	1615.7	1558.2	1469.0	1363.3	1252.6	1137.5	1033.3	977.9	957.8
25°	1800.5	1798.3	1771.0	1700.5	1594.8	1475.5	1348.9	1215.9	1095.8	1028.2	1004.5
27.5°	1971.6	1968.7	1936.4	1854.4	1738.6	1594.8	1455.3	1306.5	1164.8	1084.3	1057.7
30°	2124.0	2121.9	2086.6	2002.5	1869.5	1713.5	1556.7	1397.1	1237.5	1144.0	1110.9
32.5°	2239.1	2239.1	2207.4	2124.8	1986.7	1827.1	1658.8	1482.7	1313.0	1208.0	1169.2
35°	2308.8	2311.0	2283.7	2217.5	2087.4	1934.2	1764.5	1583.3	1393.5	1276.3	1234.6
37.5°	2318.9	2326.1	2310.3	2265.7	2157.1	2023.4	1868.1	1680.4	1476.9	1345.3	1298.6
40°	2272.2	2277.2	2277.9	2260.7	2185.9	2087.4	1959.4	1783.2	1565.3	1417.9	1364.0
42.5°	2178.7	2182.3	2188.8	2193.8	2165.0	2115.4	2029.1	1878.8	1659.5	1492.0	1428.7
45°	2057.9	2057.2	2068.0	2089.5	2088.1	2099.6	2068.0	1965.8	1757.3	1576.1	1500.6
47.5°	1877.4	1873.8	1911.9	1960.8	1985.3	2039.2	2068.7	2034.2	1863.7	1668.9	1582.6
50°	1594.8	1591.2	1674.6	1789.7	1861.6	1943.6	2029.1	2075.1	1975.2	1773.1	1671.8
52.5°	1251.1	1247.5	1353.2	1554.6	1711.3	1830.7	1949.3	2084.5	2080.9	1889.6	1772.4
55°	930.4	927.6	1030.4	1248.2	1502.1	1699.8	1851.5	2060.0	2180.1	2023.4	1894.7
57.5°	655.8	654.3	743.5	924.0	1233.1	1540.2	1757.3	2012.6	2271.4	2168.6	2032.7
60°	460.2	458.0	522.7	662.2	932.6	1299.3	1663.9	1949.3	2339.7	2311.7	2179.4
62.5°	309.9	308.5	354.5	471.0	662.2	1000.2	1522.2	1906.9	2378.6	2455.5	2327.5
65°	235.1	234.4	255.3	319.3	468.8	718.3	1297.1	1901.9	2383.6	2563.4	2453.4
67.5°	189.8	190.5	202.0	238.7	324.3	510.5	1005.9	1870.2	2357.0	2600.0	2514.5
70°	155.3	155.3	160.3	184.8	239.4	344.4	702.5	1726.4	2282.9	2504.4	2441.9
72.5°	118.6	119.4	135.2	149.6	180.5	241.6	450.1	1428.7	2108.2	2208.2	2160.7
75°	94.2	93.5	102.8	123.0	140.2	172.6	276.1	1024.6	1794.0	1725.7	1695.5
77.5°	67.6	66.9	74.1	91.3	106.4	122.2	164.7	517.0	975.7	896.6	874.3
80°	46.0	44.6	51.1	63.3	70.5	71.9	80.5	198.5	425.7	401.2	396.2
82.5°	23.7	23.7	27.3	36.0	36.7	37.4	36.0	64.0	140.9	131.6	125.8
85°	9.3	9.3	10.1	12.2	12.2	12.9	12.9	16.5	15.1	14.4	13.7
87.5°	0.7	0.7	1.4	1.4	2.2	2.2	2.2	2.9	3.6	3.6	3.6
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°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	717.6	714.7	705.4	703.2	701.8	699.6	700.3	695.3	693.2	693.9	691.0
5°	730.5	725.5	714.0	709.0	707.5	705.4	707.5	703.9	700.3	701.8	700.3
7.5°	748.5	741.3	726.9	721.9	721.2	719.0	721.9	719.0	716.2	717.6	714.7
10°	767.2	757.9	742.0	737.0	737.0	736.3	739.2	734.9	732.0	732.7	731.3
12.5°	794.5	782.3	765.1	760.7	758.6	760.7	761.5	755.7	750.7	751.4	749.2
15°	827.6	814.0	795.3	788.8	787.3	786.6	783.8	776.6	770.1	769.4	767.2
17.5°	863.6	846.3	824.0	817.5	811.1	808.9	801.7	792.4	782.3	782.3	779.4
20°	898.1	878.7	852.1	842.7	833.4	824.7	812.5	797.4	784.5	782.3	779.4
22.5°	935.5	912.5	881.5	867.9	851.3	834.1	813.2	793.1	776.6	773.0	770.8
25°	977.2	948.4	911.7	891.6	865.0	838.4	807.5	781.6	762.2	756.4	755.0
27.5°	1023.2	988.7	944.1	914.6	875.8	834.1	794.5	763.6	739.9	732.7	730.5
30°	1069.9	1028.9	973.6	930.4	875.8	820.4	770.8	734.9	707.5	697.5	696.0
32.5°	1116.7	1070.6	1000.2	939.1	867.2	797.4	739.9	697.5	666.5	654.3	657.2
35°	1172.8	1116.7	1024.6	942.7	852.8	769.4	704.7	655.0	623.4	612.6	614.8
37.5°	1231.0	1162.7	1044.0	939.8	832.6	737.7	665.1	616.9	577.4	558.7	560.8
40°	1281.3	1204.4	1057.7	929.7	806.8	701.8	626.3	563.0	508.4	490.4	488.2
42.5°	1328.8	1235.3	1064.9	914.6	777.3	660.1	570.9	489.7	435.0	412.7	413.4
45°	1378.4	1265.5	1062.0	894.5	740.6	611.2	499.7	417.8	369.6	349.5	350.2
47.5°	1435.2	1297.9	1059.1	872.9	696.0	547.9	431.4	354.5	312.8	298.4	297.0
50°	1495.6	1333.8	1055.5	846.3	646.4	477.4	363.8	295.5	260.3	250.9	248.8
52.5°	1563.9	1372.6	1053.4	814.7	586.7	402.7	303.4	243.8	220.0	213.6	212.8
55°	1645.9	1417.9	1056.3	776.6	514.8	332.2	252.4	210.0	194.1	190.5	189.8
57.5°	1745.8	1476.2	1064.9	732.0	439.3	271.1	215.0	189.1	179.0	176.2	176.2
60°	1854.4	1542.3	1080.7	681.6	363.8	223.6	190.5	172.6	168.3	171.9	171.9
62.5°	1971.6	1620.0	1108.8	620.5	293.4	189.1	171.1	158.9	156.0	163.2	163.9
65°	2080.2	1695.5	1126.7	547.2	233.0	163.9	156.0	145.2	146.7	153.9	153.2
67.5°	2147.0	1758.0	1101.6	455.2	184.8	145.2	140.2	130.9	134.5	140.2	140.9
70°	2106.1	1722.8	977.2	343.7	144.5	126.6	123.0	117.2	120.1	127.3	130.1
72.5°	1905.5	1543.1	760.0	232.2	116.5	106.4	107.9	105.0	108.6	115.0	121.5
75°	1546.7	1166.3	509.8	148.8	92.0	90.6	92.8	90.6	92.0	98.5	102.1
77.5°	807.5	568.8	253.8	92.8	68.3	70.5	74.1	74.8	79.1	80.5	82.0
80°	376.8	256.0	105.7	51.8	45.3	49.6	56.8	57.5	59.0	61.1	61.8
82.5°	123.0	76.9	48.9	28.0	25.9	28.0	36.7	43.9	44.6	48.9	48.9
85°	12.9	7.9	10.8	11.5	10.1	12.2	16.5	15.8	7.2	4.3	4.3
87.5°	3.6	2.9	3.6	3.6	2.9	2.9	2.2	0.7	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)