

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: P798707

Luminaire Tested: **ARCH1-30-722-U-T2R**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798707  
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: ARCH1-30-722-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

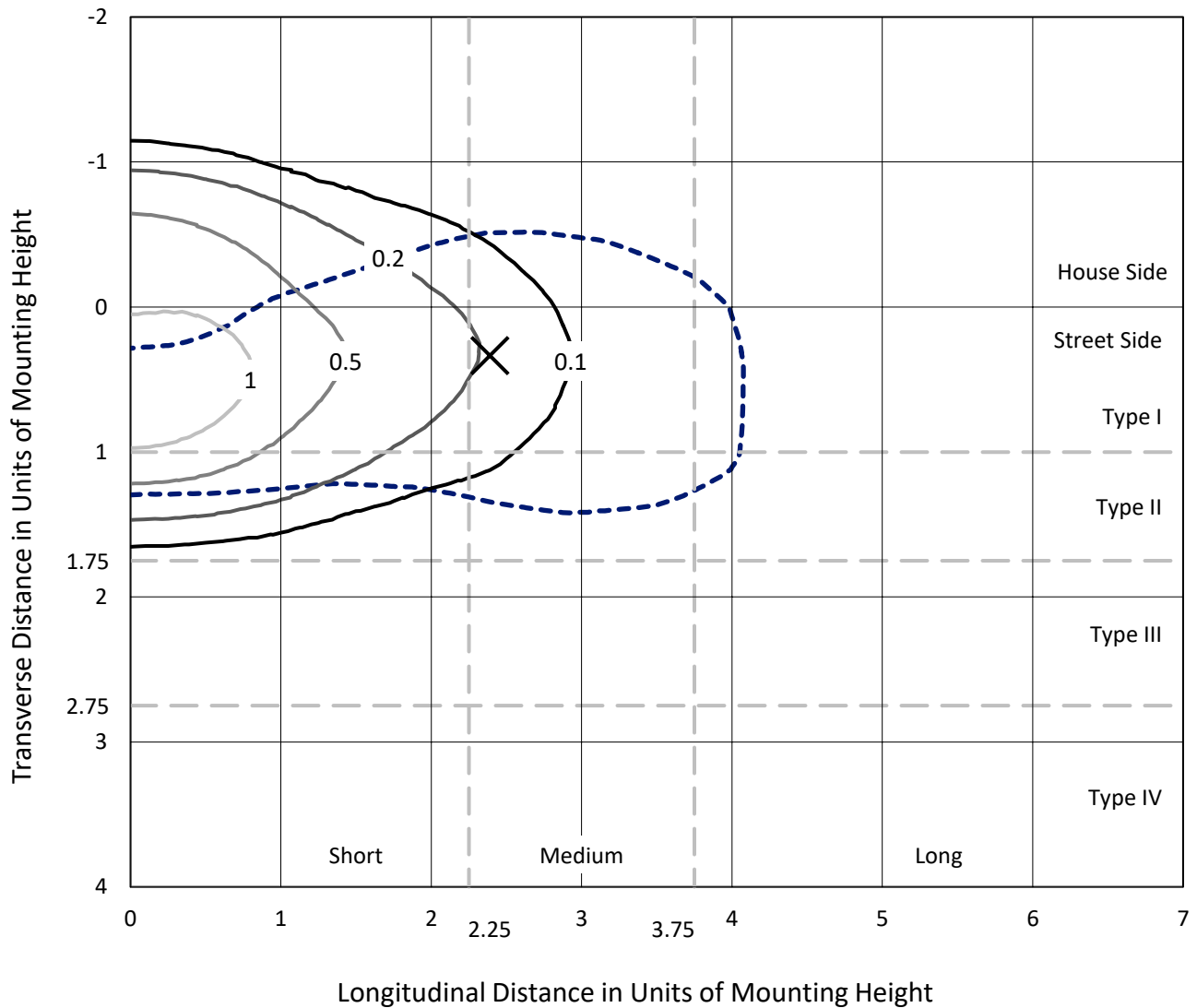
Lumens per Lamp: N/A  
Luminaire Lumens: 3994 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

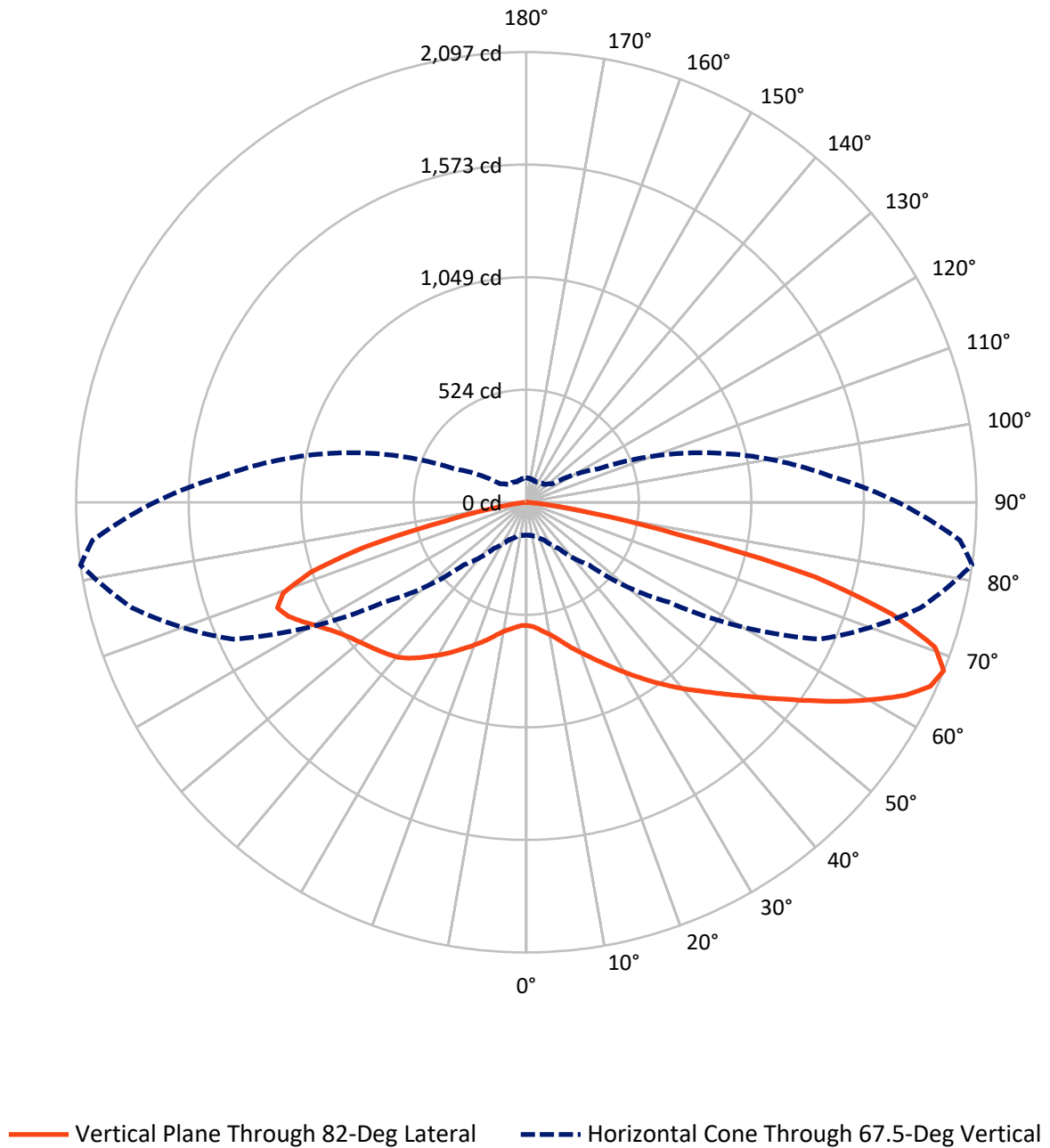
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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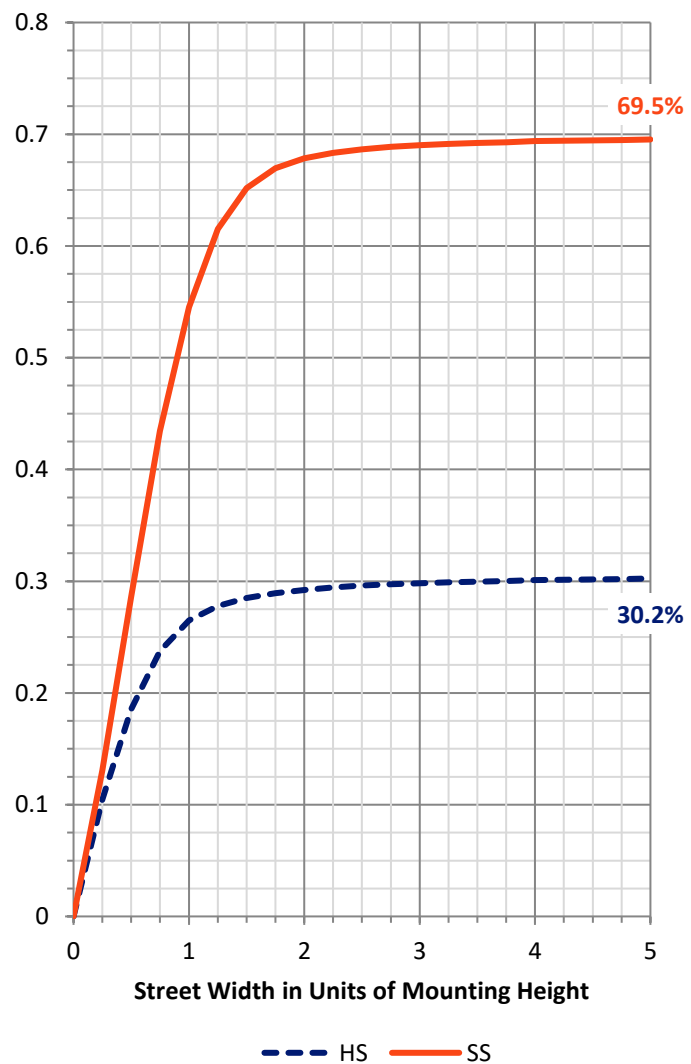
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1216.3	0.0	1216.3
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	2777.7	0.0	2777.7
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	3994.0	0.0	3994.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	1.5
10°-20°	213.7	5.4
20°-30°	429.5	10.8
30°-40°	674.7	16.9
40°-50°	822.0	20.6
50°-60°	776.7	19.4
60°-70°	641.3	16.1
70°-80°	349.2	8.7
80°-90°	27.5	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°	3994.0	100.0
0°-180°	3994.0	100.0

**Coefficient of Utilization**



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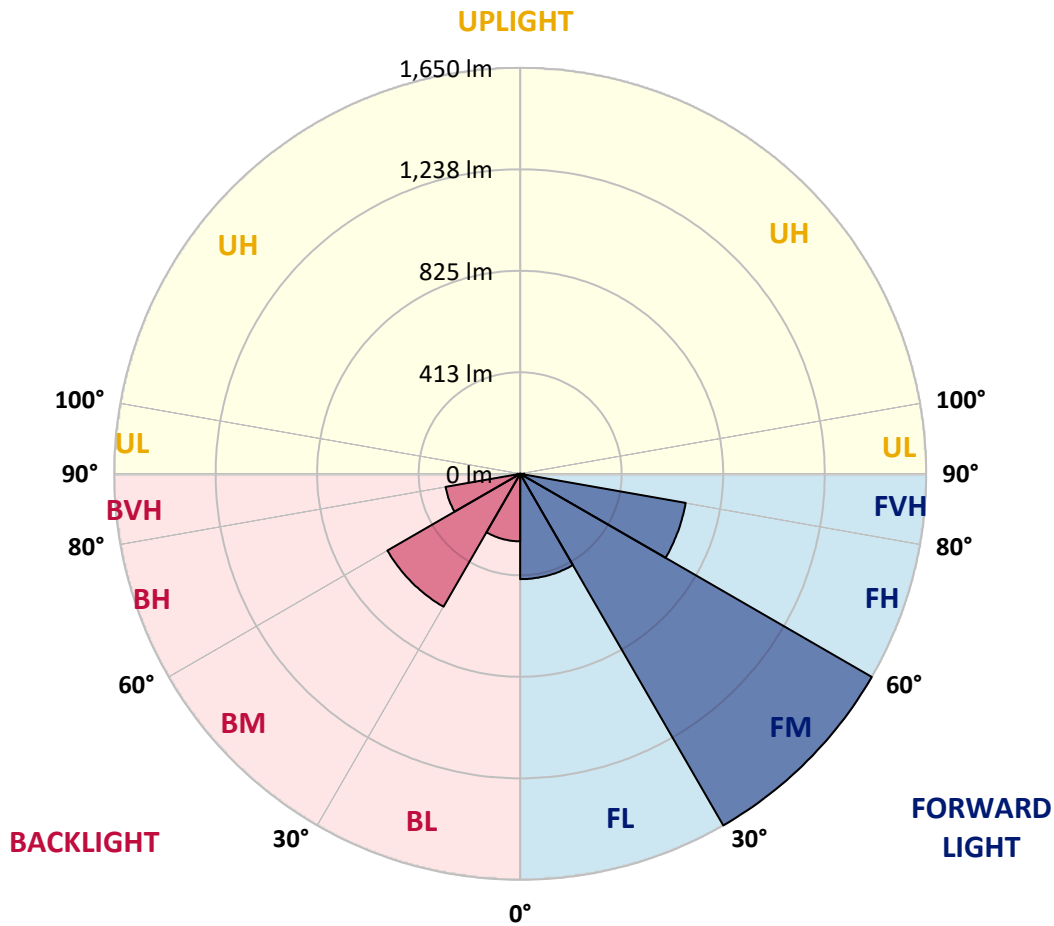
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.3	10.7			
FM (30°-60°)	1650.1	41.3			
FH (60°-80°)	682.7	17.1			G1/1800
FVH (80°-90°)	16.5	0.4			G1/100
BL (0°-30°)	274.3	6.9	B1/500		
BM (30°-60°)	623.3	15.6	B1/1000		
BH (60°-80°)	307.9	7.7	B1/500		G1/500
BVH (80°-90°)	10.9	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°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1
2.5°	600.2	600.2	604.9	604.9	600.8	594.4	592.7	585.7	579.4	579.4	579.9
5°	657.6	657.1	660.5	655.9	646.0	633.3	624.6	609.5	596.8	592.7	592.1
7.5°	727.8	727.2	729.0	721.4	702.9	682.0	664.6	640.2	619.4	610.7	608.4
10°	806.1	805.5	803.8	791.0	766.1	733.6	707.5	673.9	642.6	628.6	625.7
12.5°	896.0	894.8	890.8	872.2	838.0	796.3	758.6	715.1	673.3	654.2	647.8
15°	996.3	994.6	987.0	964.4	918.6	865.8	817.1	761.5	710.4	685.5	676.8
17.5°	1101.9	1101.9	1090.3	1056.6	1005.6	940.1	879.8	809.0	749.3	718.5	708.1
20°	1209.2	1208.6	1194.1	1153.5	1093.2	1017.8	941.2	863.5	789.3	752.2	739.4
22.5°	1322.3	1321.1	1303.1	1256.7	1184.8	1099.6	1010.2	917.5	833.4	788.7	772.5
25°	1452.2	1450.4	1428.4	1371.5	1286.3	1190.0	1088.0	980.7	883.8	829.3	810.2
27.5°	1590.2	1587.9	1561.8	1495.7	1402.3	1286.3	1173.8	1053.7	939.5	874.5	853.1
30°	1713.1	1711.4	1683.0	1615.1	1507.8	1382.0	1255.6	1126.8	998.1	922.7	896.0
32.5°	1805.9	1805.9	1780.4	1713.7	1602.4	1473.6	1337.9	1195.8	1059.0	974.3	943.0
35°	1862.2	1863.9	1841.9	1788.5	1683.6	1560.0	1423.2	1277.0	1123.9	1029.4	995.7
37.5°	1870.3	1876.1	1863.3	1827.4	1739.8	1631.9	1506.7	1355.3	1191.2	1085.1	1047.4
40°	1832.6	1836.7	1837.2	1823.3	1763.0	1683.6	1580.3	1438.2	1262.5	1143.6	1100.1
42.5°	1757.2	1760.1	1765.3	1769.4	1746.2	1706.2	1636.6	1515.4	1338.5	1203.4	1152.3
45°	1659.8	1659.2	1667.9	1685.3	1684.1	1693.4	1667.9	1585.5	1417.4	1271.2	1210.3
47.5°	1514.2	1511.3	1542.0	1581.5	1601.2	1644.7	1668.5	1640.6	1503.2	1346.0	1276.4
50°	1286.3	1283.4	1350.7	1443.5	1501.5	1567.6	1636.6	1673.7	1593.1	1430.1	1348.3
52.5°	1009.1	1006.2	1091.4	1253.8	1380.2	1476.5	1572.2	1681.2	1678.3	1524.1	1429.5
55°	750.4	748.1	831.0	1006.8	1211.5	1371.0	1493.3	1661.5	1758.4	1631.9	1528.1
57.5°	528.9	527.7	599.7	745.2	994.6	1242.2	1417.4	1623.2	1832.0	1749.1	1639.5
60°	371.2	369.4	421.6	534.1	752.2	1047.9	1342.0	1572.2	1887.1	1864.5	1757.8
62.5°	250.0	248.8	285.9	379.9	534.1	806.7	1227.7	1538.0	1918.4	1980.5	1877.2
65°	189.6	189.1	205.9	257.5	378.1	579.4	1046.2	1533.9	1922.5	2067.5	1978.7
67.5°	153.1	153.7	163.0	192.5	261.6	411.8	811.3	1508.4	1901.0	2097.0	2028.0
70°	125.3	125.3	129.3	149.0	193.1	277.8	566.6	1392.4	1841.3	2019.9	1969.5
72.5°	95.7	96.3	109.0	120.6	145.6	194.9	363.0	1152.3	1700.4	1781.0	1742.7
75°	76.0	75.4	82.9	99.2	113.1	139.2	222.7	826.4	1446.9	1391.8	1367.5
77.5°	54.5	53.9	59.7	73.7	85.8	98.6	132.8	417.0	787.0	723.2	705.2
80°	37.1	36.0	41.2	51.0	56.8	58.0	65.0	160.1	343.3	323.6	319.5
82.5°	19.1	19.1	22.0	29.0	29.6	30.2	29.0	51.6	113.7	106.1	101.5
85°	7.5	7.5	8.1	9.9	9.9	10.4	10.4	13.3	12.2	11.6	11.0
87.5°	0.6	0.6	1.2	1.2	1.7	1.7	1.7	2.3	2.9	2.9	2.9
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°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1
2.5°	578.8	576.5	568.9	567.2	566.0	564.3	564.9	560.8	559.1	559.6	557.3
5°	589.2	585.2	575.9	571.8	570.7	568.9	570.7	567.8	564.9	566.0	564.9
7.5°	603.7	597.9	586.3	582.3	581.7	579.9	582.3	579.9	577.6	578.8	576.5
10°	618.8	611.3	598.5	594.4	594.4	593.9	596.2	592.7	590.4	591.0	589.8
12.5°	640.8	631.0	617.1	613.6	611.8	613.6	614.2	609.5	605.5	606.0	604.3
15°	667.5	656.5	641.4	636.2	635.0	634.4	632.1	626.3	621.1	620.5	618.8
17.5°	696.5	682.6	664.6	659.4	654.2	652.4	646.6	639.1	631.0	631.0	628.6
20°	724.3	708.7	687.2	679.7	672.1	665.2	655.3	643.1	632.7	631.0	628.6
22.5°	754.5	735.9	711.0	700.0	686.6	672.7	655.9	639.7	626.3	623.4	621.7
25°	788.1	764.9	735.4	719.1	697.7	676.2	651.3	630.4	614.7	610.1	608.9
27.5°	825.2	797.4	761.5	737.7	706.4	672.7	640.8	615.9	596.8	591.0	589.2
30°	862.9	829.9	785.2	750.4	706.4	661.7	621.7	592.7	570.7	562.5	561.4
32.5°	900.6	863.5	806.7	757.4	699.4	643.1	596.8	562.5	537.6	527.7	530.1
35°	945.9	900.6	826.4	760.3	687.8	620.5	568.3	528.3	502.8	494.1	495.8
37.5°	992.8	937.8	842.1	758.0	671.6	595.0	536.4	497.6	465.7	450.6	452.3
40°	1033.4	971.4	853.1	749.9	650.7	566.0	505.1	454.1	410.0	395.5	393.8
42.5°	1071.7	996.3	858.9	737.7	626.9	532.4	460.5	394.9	350.9	332.9	333.5
45°	1111.7	1020.7	856.6	721.4	597.3	492.9	403.1	336.9	298.1	281.8	282.4
47.5°	1157.5	1046.8	854.2	704.0	561.4	441.9	348.0	285.9	252.3	240.7	239.5
50°	1206.3	1075.8	851.3	682.6	521.4	385.1	293.4	238.4	209.9	202.4	200.7
52.5°	1261.4	1107.1	849.6	657.1	473.2	324.8	244.7	196.6	177.5	172.2	171.7
55°	1327.5	1143.6	851.9	626.3	415.2	267.9	203.6	169.3	156.6	153.7	153.1
57.5°	1408.1	1190.6	858.9	590.4	354.3	218.6	173.4	152.5	144.4	142.1	142.1
60°	1495.7	1244.0	871.6	549.8	293.4	180.4	153.7	139.2	135.7	138.6	138.6
62.5°	1590.2	1306.6	894.3	500.5	236.6	152.5	138.0	128.2	125.8	131.6	132.2
65°	1677.8	1367.5	908.8	441.3	187.9	132.2	125.8	117.1	118.3	124.1	123.5
67.5°	1731.7	1417.9	888.5	367.1	149.0	117.1	113.1	105.5	108.4	113.1	113.7
70°	1698.6	1389.5	788.1	277.2	116.6	102.1	99.2	94.5	96.8	102.6	105.0
72.5°	1536.8	1244.5	613.0	187.3	93.9	85.8	87.0	84.7	87.6	92.8	98.0
75°	1247.4	940.7	411.2	120.0	74.2	73.1	74.8	73.1	74.2	79.5	82.4
77.5°	651.3	458.7	204.7	74.8	55.1	56.8	59.7	60.3	63.8	65.0	66.1
80°	303.9	206.5	85.3	41.8	36.5	40.0	45.8	46.4	47.6	49.3	49.9
82.5°	99.2	62.1	39.4	22.6	20.9	22.6	29.6	35.4	36.0	39.4	39.4
85°	10.4	6.4	8.7	9.3	8.1	9.9	13.3	12.8	5.8	3.5	3.5
87.5°	2.9	2.3	2.9	2.9	2.3	2.3	1.7	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)