

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: P798739

Luminaire Tested: **ARCH1-30-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798739
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: ARCH1-30-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4564 lumens
Efficiency: N/A
Efficacy: 138.3 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

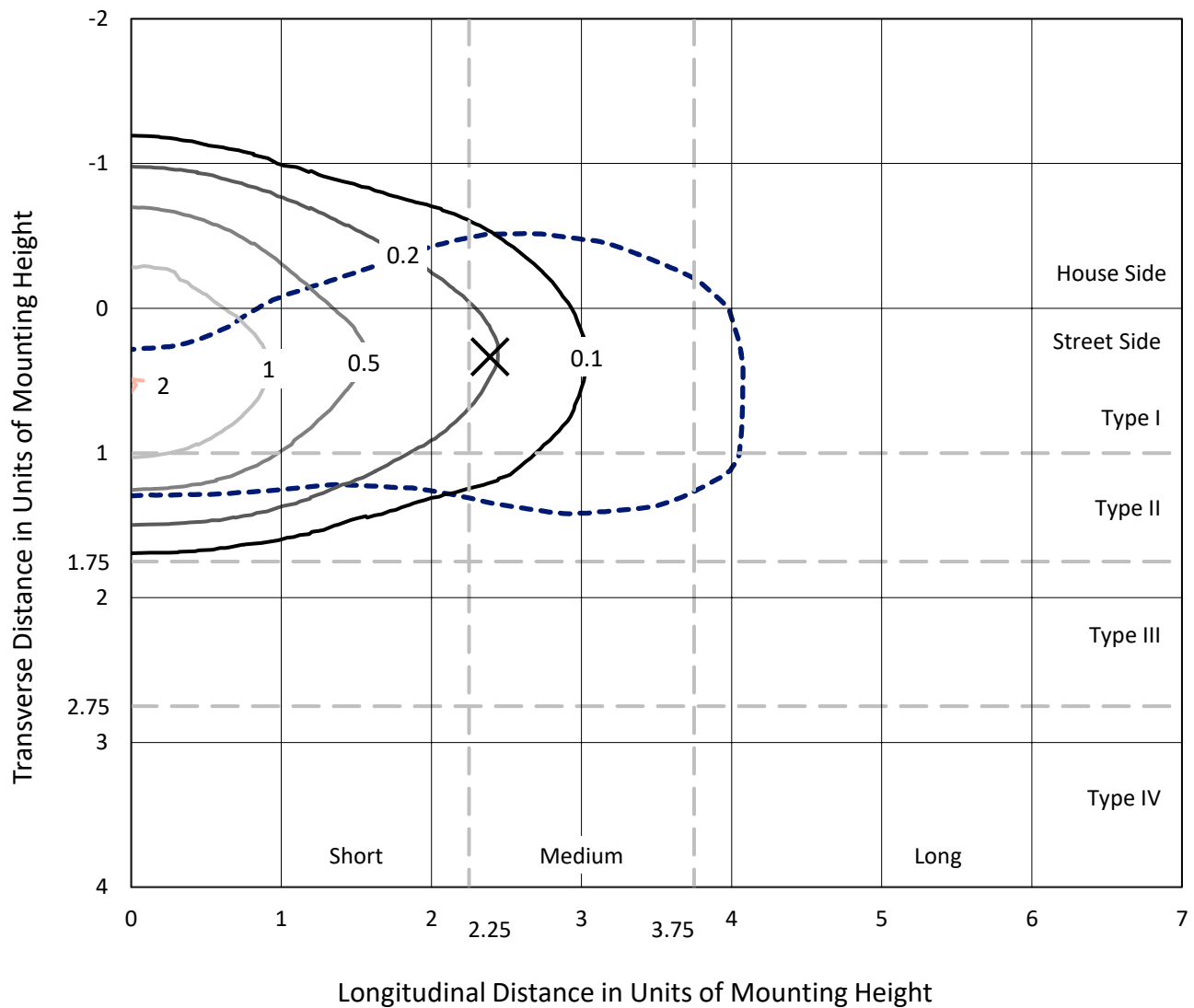


REPORT NUMBER: P798739

CATALOG NUMBER: ARCH1-30-730-U-T2R

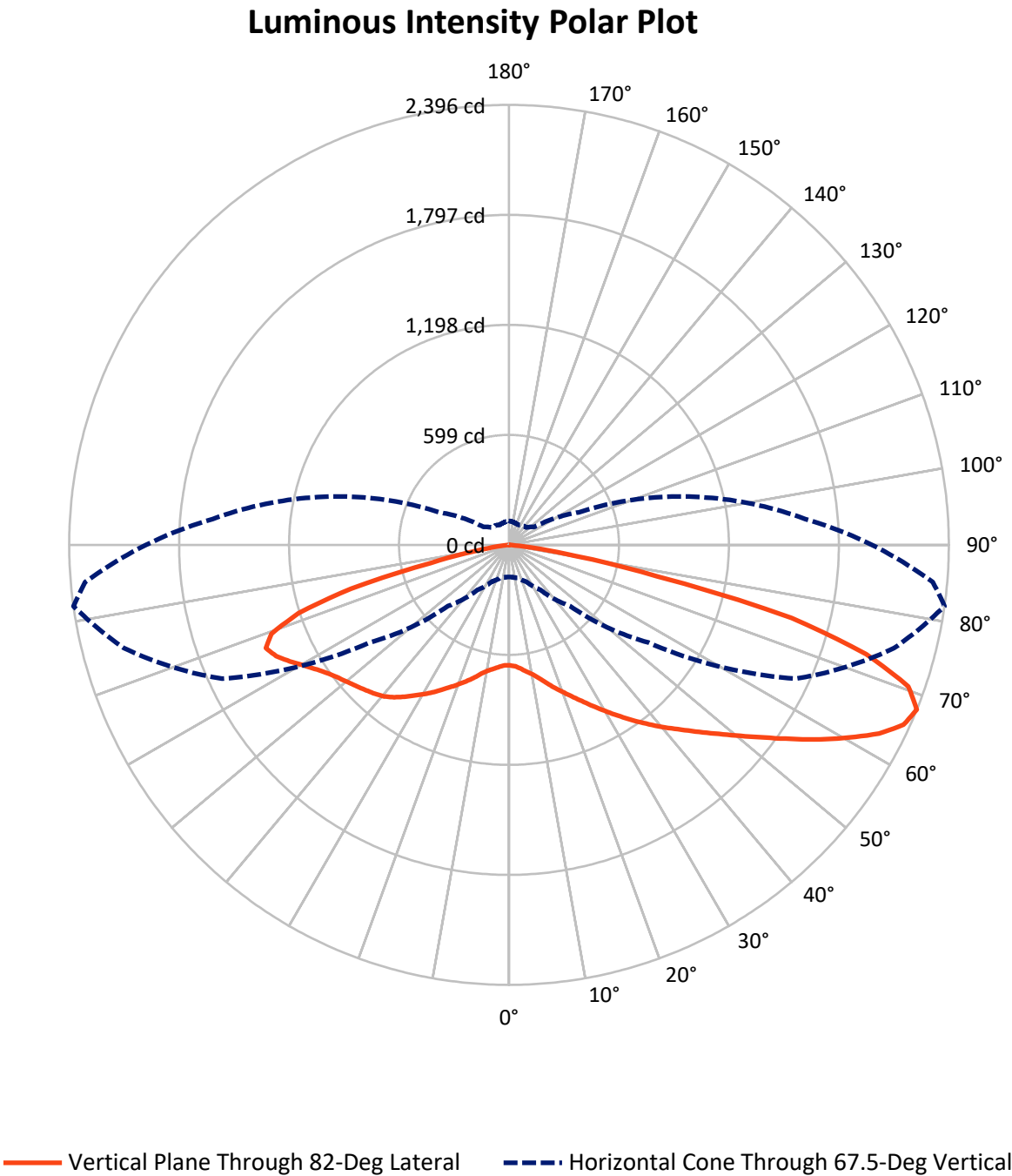
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Medium - N/A

REPORT NUMBER: P798739
CATALOG NUMBER: ARCH1-30-730-U-T2R



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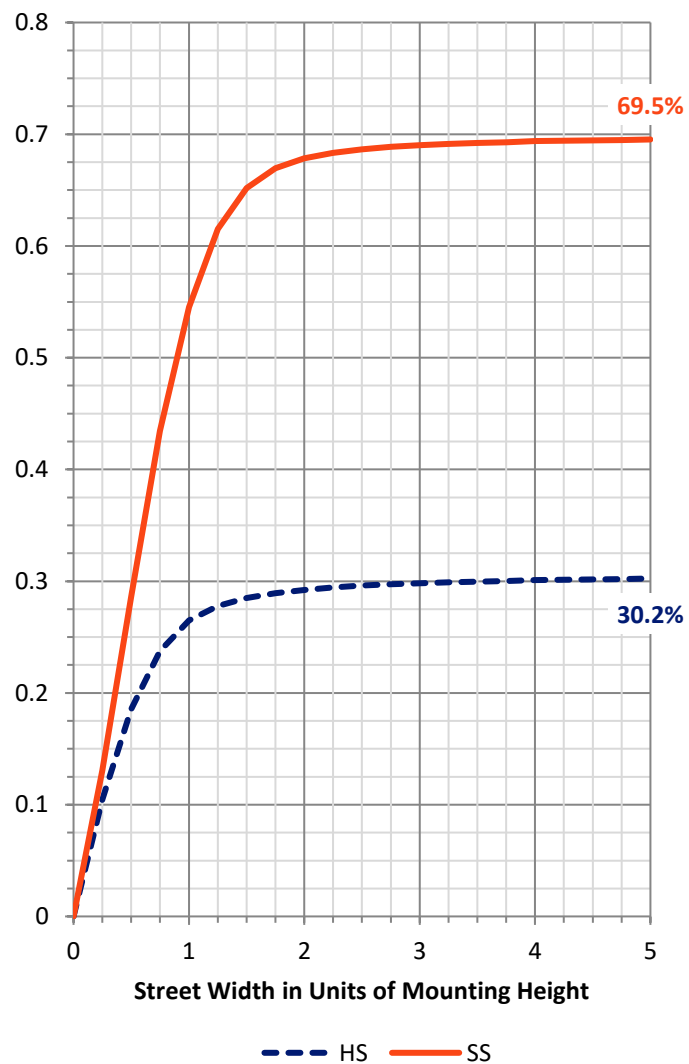
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1389.9	0.0	1389.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3174.1	0.0	3174.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	4564.0	0.0	4564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.5
10°-20°	244.2	5.4
20°-30°	490.8	10.8
30°-40°	771.0	16.9
40°-50°	939.3	20.6
50°-60°	887.5	19.4
60°-70°	732.9	16.1
70°-80°	399.1	8.7
80°-90°	31.4	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°	4564.0	100.0
0°-180°	4564.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798739

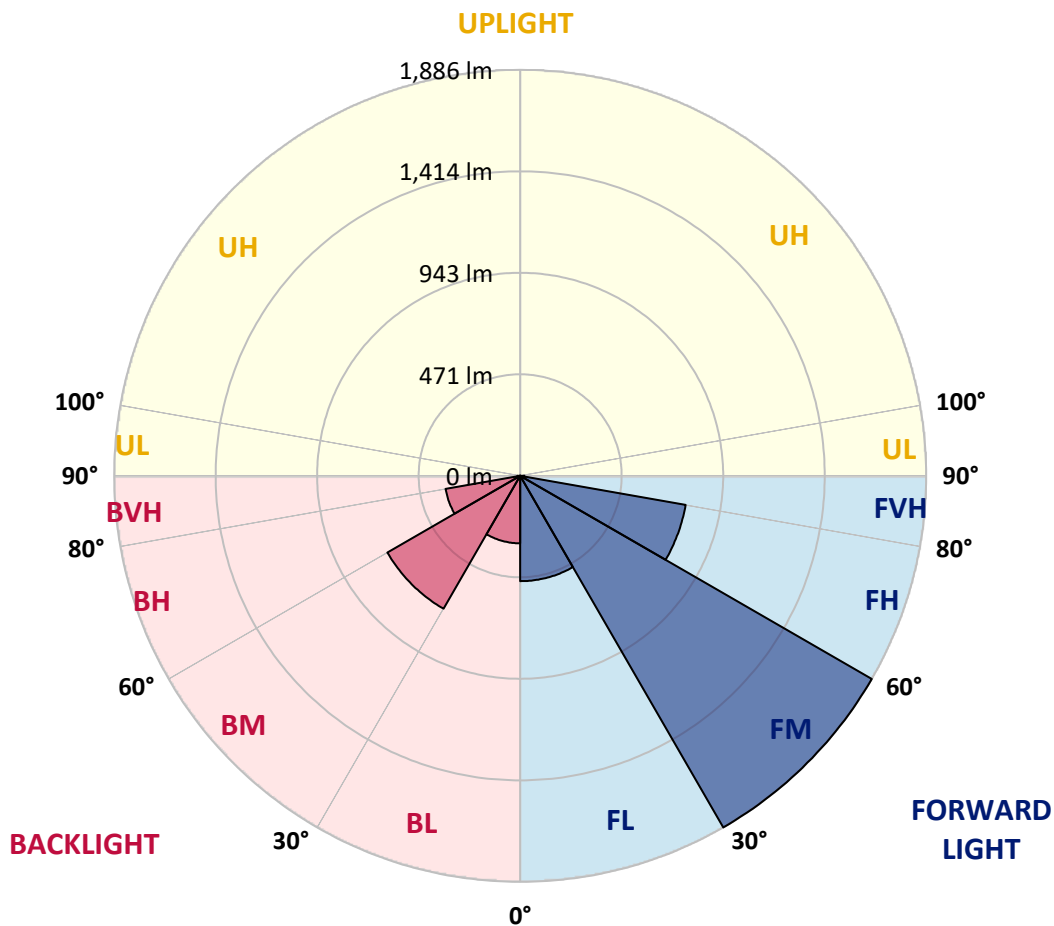
CATALOG NUMBER: ARCH1-30-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	489.4	10.7			
FM	(30°-60°)	1885.6	41.3			
FH	(60°-80°)	780.1	17.1			G1/1800
FVH	(80°-90°)	18.9	0.4			G1/100
BL	(0°-30°)	313.4	6.9	B1/500		
BM	(30°-60°)	712.2	15.6	B1/1000		
BH	(60°-80°)	351.8	7.7	B1/500		G1/500
BVH	(80°-90°)	12.5	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



REPORT NUMBER: P798739

CATALOG NUMBER: ARCH1-30-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	685.9	685.9	691.2	691.2	686.6	679.3	677.3	669.3	662.0	662.0	662.7
5°	751.5	750.8	754.8	749.5	738.2	723.7	713.7	696.5	681.9	677.3	676.6
7.5°	831.7	831.0	833.0	824.4	803.2	779.3	759.5	731.6	707.8	697.8	695.2
10°	921.2	920.5	918.5	903.9	875.4	838.3	808.5	770.1	734.3	718.4	715.1
12.5°	1023.9	1022.5	1017.9	996.7	957.6	909.9	866.8	817.1	769.4	747.5	740.2
15°	1138.5	1136.5	1127.9	1102.1	1049.7	989.4	933.7	870.1	811.8	783.3	773.4
17.5°	1259.1	1259.1	1245.9	1207.4	1149.1	1074.2	1005.3	924.5	856.2	821.1	809.2
20°	1381.7	1381.1	1364.5	1318.1	1249.2	1163.0	1075.6	986.8	901.9	859.5	844.9
22.5°	1511.0	1509.6	1489.1	1436.1	1353.9	1256.5	1154.4	1048.4	952.3	901.3	882.7
25°	1659.4	1657.4	1632.2	1567.3	1469.9	1359.9	1243.2	1120.6	1010.0	947.7	925.8
27.5°	1817.1	1814.5	1784.7	1709.1	1602.4	1469.9	1341.3	1204.1	1073.6	999.4	974.8
30°	1957.6	1955.6	1923.2	1845.6	1723.0	1579.2	1434.7	1287.6	1140.5	1054.4	1023.9
32.5°	2063.6	2063.6	2034.5	1958.3	1831.0	1683.9	1528.8	1366.5	1210.1	1113.3	1077.5
35°	2127.9	2129.9	2104.7	2043.8	1923.8	1782.7	1626.3	1459.3	1284.3	1176.3	1137.9
37.5°	2137.2	2143.8	2129.3	2088.2	1988.1	1864.8	1721.7	1548.7	1361.2	1239.9	1196.8
40°	2094.1	2098.8	2099.4	2083.5	2014.6	1923.8	1805.9	1643.5	1442.7	1306.8	1257.1
42.5°	2008.0	2011.3	2017.3	2021.9	1995.4	1949.7	1870.1	1731.6	1529.5	1375.1	1316.8
45°	1896.6	1896.0	1905.9	1925.8	1924.5	1935.1	1905.9	1811.8	1619.6	1452.6	1383.1
47.5°	1730.3	1727.0	1762.1	1807.2	1829.7	1879.4	1906.6	1874.8	1717.7	1538.1	1458.6
50°	1469.9	1466.6	1543.4	1649.5	1715.7	1791.3	1870.1	1912.6	1820.4	1634.2	1540.8
52.5°	1153.1	1149.8	1247.2	1432.8	1577.2	1687.2	1796.6	1921.2	1917.9	1741.6	1633.6
55°	857.5	854.9	949.6	1150.4	1384.4	1566.6	1706.5	1898.6	2009.3	1864.8	1746.2
57.5°	604.4	603.1	685.2	851.6	1136.5	1419.5	1619.6	1854.9	2093.5	1998.7	1873.5
60°	424.1	422.1	481.8	610.3	859.5	1197.5	1533.5	1796.6	2156.4	2130.6	2008.6
62.5°	285.6	284.3	326.7	434.1	610.3	921.8	1402.9	1757.5	2192.2	2263.1	2145.2
65°	216.7	216.0	235.3	294.2	432.1	662.0	1195.5	1752.8	2196.8	2362.5	2261.1
67.5°	175.0	175.6	186.2	220.0	298.9	470.5	927.1	1723.7	2172.3	2396.3	2317.5
70°	143.1	143.1	147.8	170.3	220.7	317.4	647.5	1591.1	2104.1	2308.2	2250.5
72.5°	109.3	110.0	124.6	137.8	166.3	222.7	414.8	1316.8	1943.0	2035.2	1991.4
75°	86.8	86.2	94.8	113.3	129.2	159.0	254.5	944.3	1653.4	1590.5	1562.6
77.5°	62.3	61.6	68.3	84.2	98.1	112.7	151.8	476.5	899.3	826.4	805.8
80°	42.4	41.1	47.1	58.3	64.9	66.3	74.2	182.9	392.3	369.8	365.1
82.5°	21.9	21.9	25.2	33.1	33.8	34.5	33.1	59.0	129.9	121.3	116.0
85°	8.6	8.6	9.3	11.3	11.3	11.9	11.9	15.2	13.9	13.3	12.6
87.5°	0.7	0.7	1.3	1.3	2.0	2.0	2.0	2.7	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P798739

CATALOG NUMBER: ARCH1-30-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	661.4	658.7	650.1	648.1	646.8	644.8	645.5	640.8	638.8	639.5	636.9
5°	673.3	668.7	658.1	653.4	652.1	650.1	652.1	648.8	645.5	646.8	645.5
7.5°	689.9	683.2	670.0	665.4	664.7	662.7	665.4	662.7	660.0	661.4	658.7
10°	707.1	698.5	683.9	679.3	679.3	678.6	681.3	677.3	674.6	675.3	674.0
12.5°	732.3	721.0	705.1	701.1	699.1	701.1	701.8	696.5	691.9	692.5	690.5
15°	762.8	750.2	732.9	727.0	725.7	725.0	722.3	715.7	709.8	709.1	707.1
17.5°	795.9	780.0	759.5	753.5	747.5	745.5	738.9	730.3	721.0	721.0	718.4
20°	827.7	809.8	785.3	776.7	768.1	760.1	748.9	734.9	723.0	721.0	718.4
22.5°	862.2	841.0	812.5	799.9	784.6	768.7	749.5	731.0	715.7	712.4	710.4
25°	900.6	874.1	840.3	821.7	797.2	772.7	744.2	720.4	702.5	697.2	695.8
27.5°	943.0	911.2	870.1	843.0	807.2	768.7	732.3	703.8	681.9	675.3	673.3
30°	986.1	948.3	897.3	857.5	807.2	756.1	710.4	677.3	652.1	642.8	641.5
32.5°	1029.2	986.8	921.8	865.5	799.2	734.9	681.9	642.8	614.3	603.1	605.7
35°	1080.9	1029.2	944.3	868.8	786.0	709.1	649.4	603.7	574.6	564.6	566.6
37.5°	1134.5	1071.6	962.2	866.1	767.4	679.9	613.0	568.6	532.1	514.9	516.9
40°	1180.9	1110.0	974.8	856.9	743.5	646.8	577.2	518.9	468.5	452.0	450.0
42.5°	1224.7	1138.5	981.5	843.0	716.4	608.4	526.2	451.3	400.9	380.4	381.1
45°	1270.4	1166.4	978.8	824.4	682.6	563.3	460.6	385.0	340.6	322.1	322.7
47.5°	1322.7	1196.2	976.2	804.5	641.5	505.0	397.6	326.7	288.3	275.0	273.7
50°	1378.4	1229.3	972.8	780.0	595.8	440.0	335.3	272.4	239.9	231.3	229.3
52.5°	1441.4	1265.1	970.9	750.8	540.8	371.1	279.7	224.7	202.8	196.8	196.2
55°	1516.9	1306.8	973.5	715.7	474.5	306.2	232.6	193.5	178.9	175.6	175.0
57.5°	1609.0	1360.5	981.5	674.6	404.9	249.8	198.1	174.3	165.0	162.4	162.4
60°	1709.1	1421.5	996.0	628.2	335.3	206.1	175.6	159.0	155.1	158.4	158.4
62.5°	1817.1	1493.1	1021.9	571.9	270.4	174.3	157.7	146.5	143.8	150.4	151.1
65°	1917.2	1562.6	1038.5	504.3	214.7	151.1	143.8	133.9	135.2	141.8	141.2
67.5°	1978.8	1620.3	1015.3	419.5	170.3	133.9	129.2	120.6	123.9	129.2	129.9
70°	1941.0	1587.8	900.6	316.8	133.2	116.6	113.3	108.0	110.7	117.3	119.9
72.5°	1756.2	1422.2	700.5	214.1	107.4	98.1	99.4	96.8	100.1	106.0	112.0
75°	1425.5	1074.9	469.9	137.2	84.8	83.5	85.5	83.5	84.8	90.8	94.1
77.5°	744.2	524.2	233.9	85.5	63.0	64.9	68.3	68.9	72.9	74.2	75.5
80°	347.3	235.9	97.4	47.7	41.8	45.7	52.4	53.0	54.3	56.3	57.0
82.5°	113.3	70.9	45.1	25.8	23.9	25.8	33.8	40.4	41.1	45.1	45.1
85°	11.9	7.3	9.9	10.6	9.3	11.3	15.2	14.6	6.6	4.0	4.0
87.5°	3.3	2.7	3.3	3.3	2.7	2.7	2.0	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)