

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: P798793

Luminaire Tested: **ARCH1-30-750-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4572 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
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

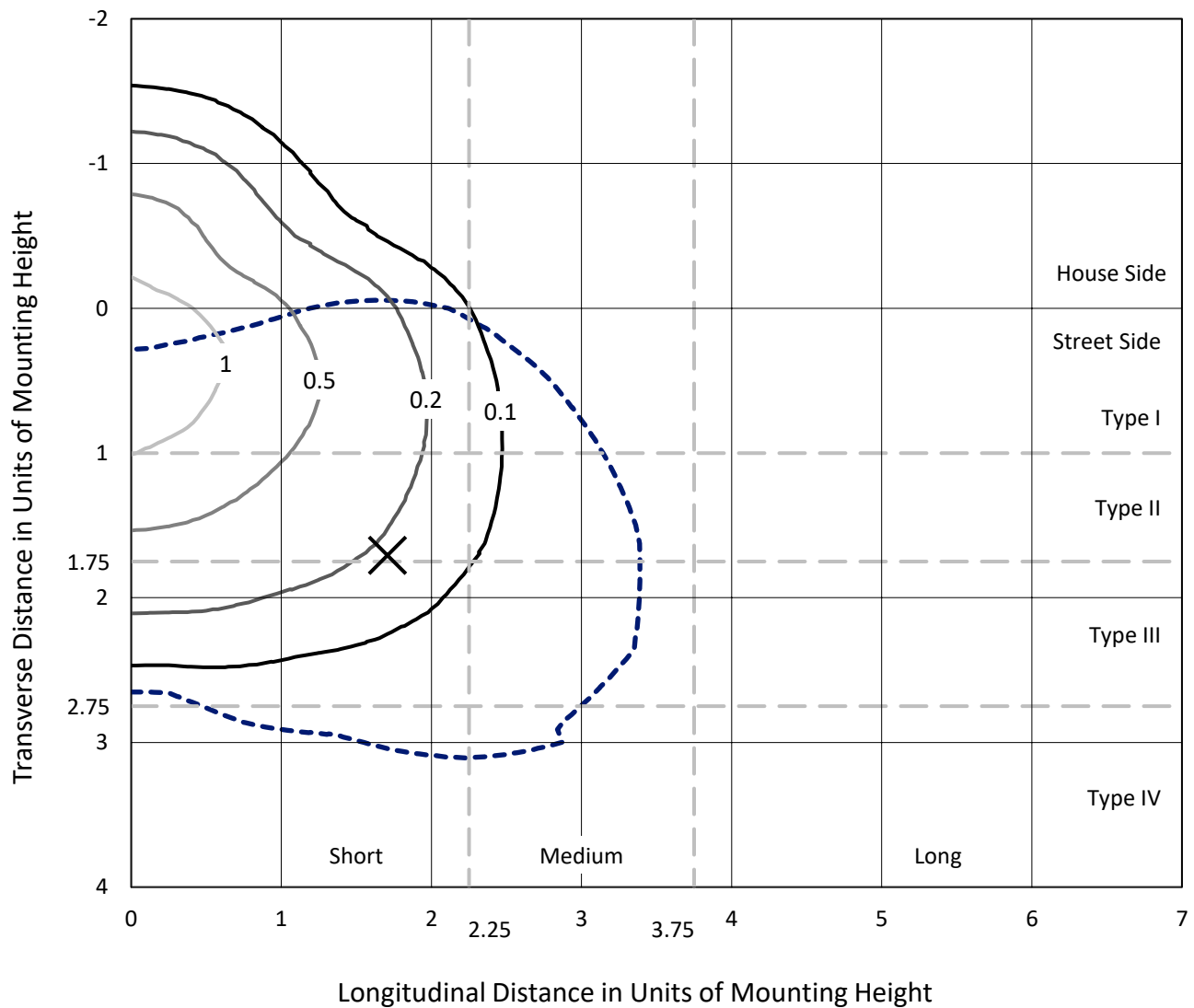


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

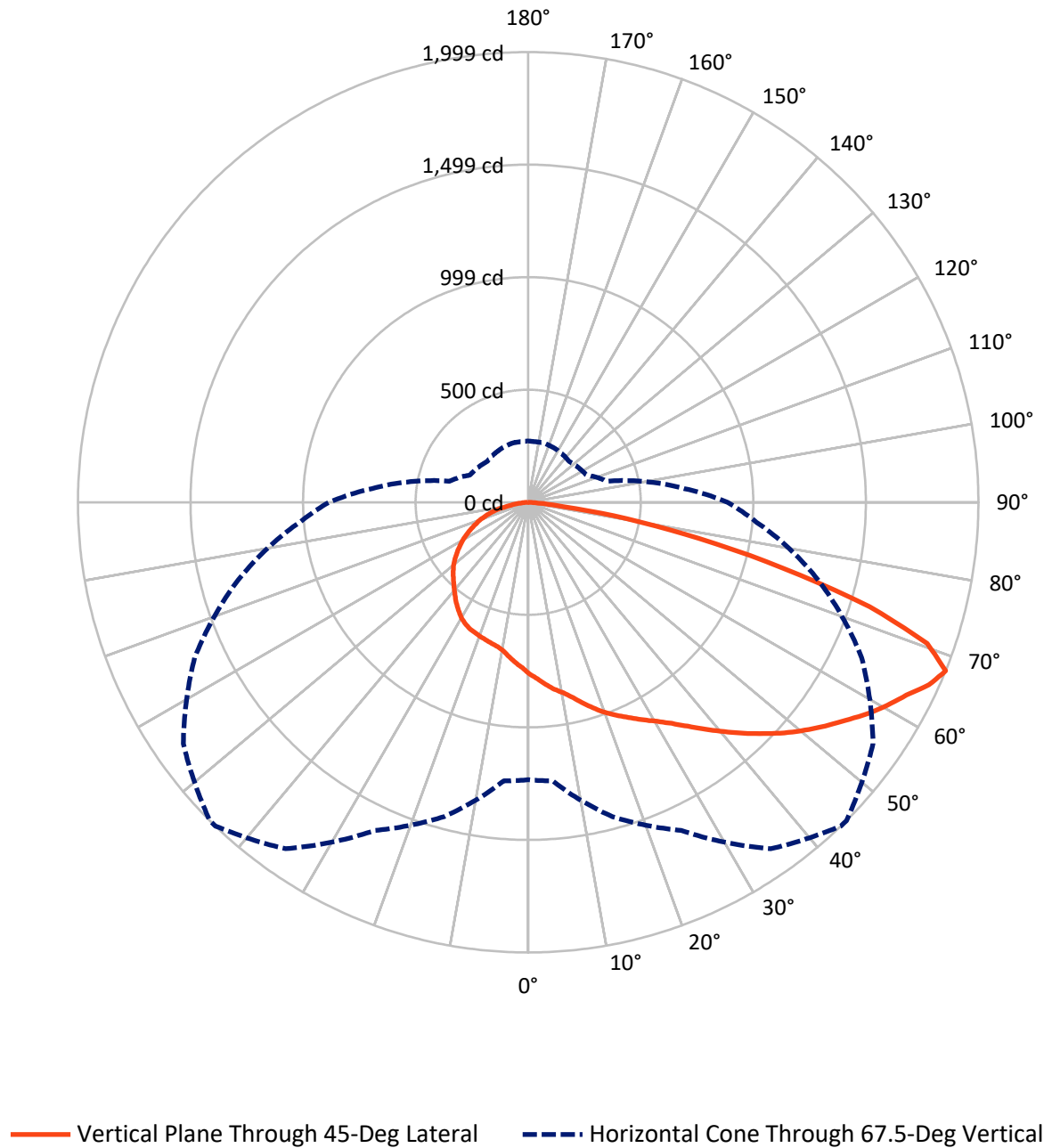


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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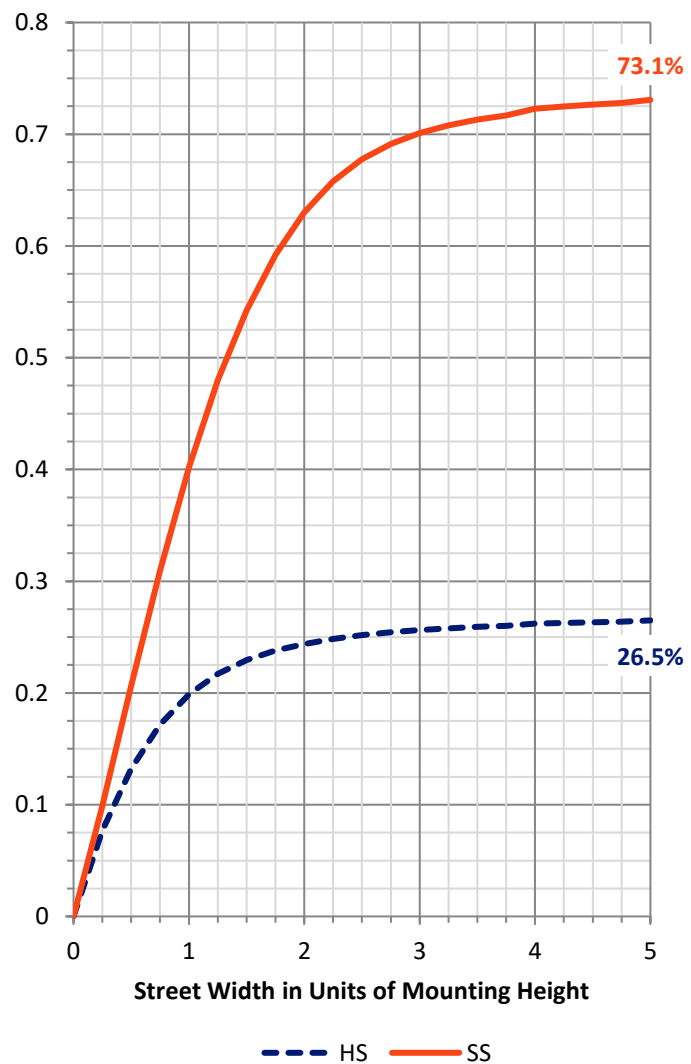
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.4	0.0	1221.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	3350.6	0.0	3350.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	4572.0	0.0	4572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.6
10°-20°	225.5	4.9
20°-30°	389.3	8.5
30°-40°	574.1	12.6
40°-50°	777.7	17.0
50°-60°	950.6	20.8
60°-70°	980.4	21.4
70°-80°	537.0	11.7
80°-90°	64.4	1.4
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°	4572.0	100.0
0°-180°	4572.0	100.0

Coefficient of Utilization



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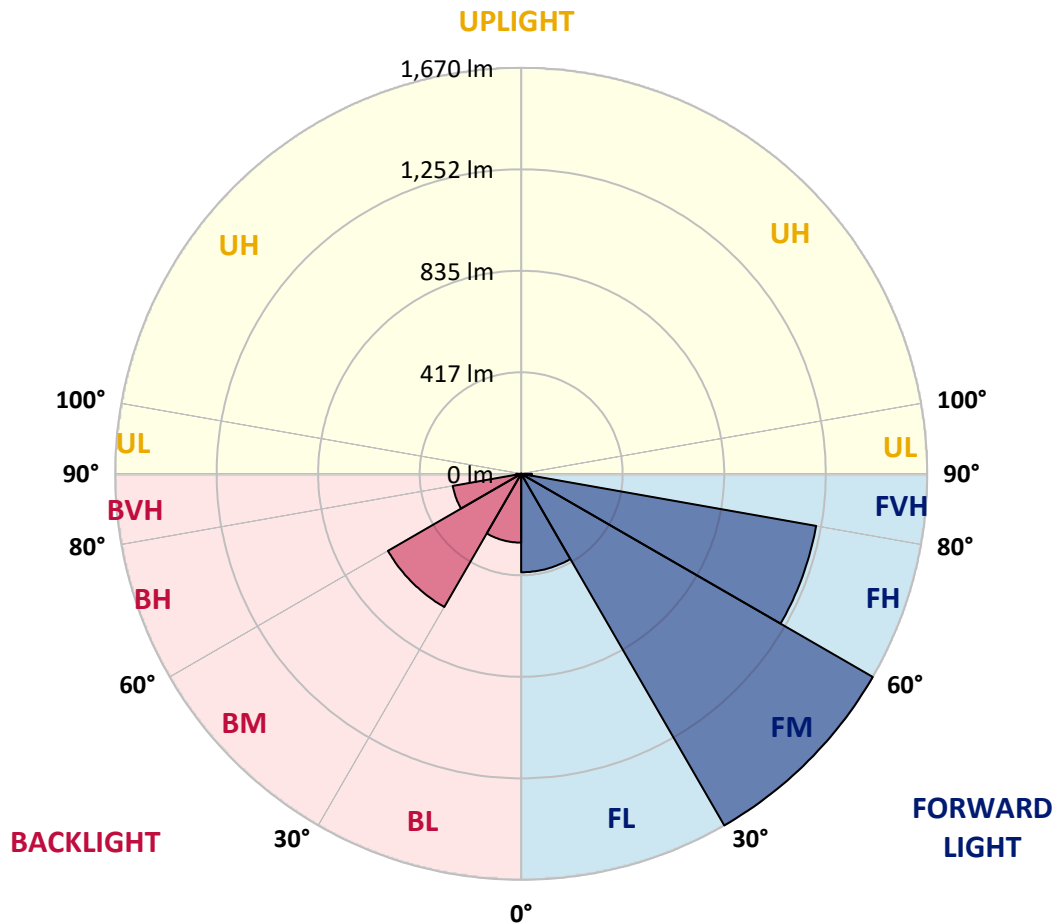
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.7	8.9			
FM	(30°-60°)	1669.7	36.5			
FH	(60°-80°)	1231.8	26.9			G1/1800
FVH	(80°-90°)	44.3	1.0			G1/100
BL	(0°-30°)	283.1	6.2	B1/500		
BM	(30°-60°)	632.7	13.8	B1/1000		
BH	(60°-80°)	285.6	6.2	B1/500		G1/500
BVH	(80°-90°)	20.0	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5
2.5°	795.9	795.2	796.6	791.7	785.5	784.8	784.8	780.6	775.7	766.0	758.3
5°	833.5	832.1	832.8	825.8	817.5	813.3	812.6	803.6	792.4	777.1	763.2
7.5°	868.3	866.9	866.2	858.5	846.0	839.1	838.4	825.1	811.9	788.3	768.1
10°	901.0	899.6	898.2	887.8	872.4	862.0	860.6	843.9	827.2	798.0	772.3
12.5°	942.7	939.9	938.5	926.0	903.8	892.6	890.5	868.3	847.4	811.9	780.6
15°	986.5	984.5	982.4	970.5	945.5	930.9	927.4	899.6	871.1	830.0	793.1
17.5°	1019.2	1017.2	1017.2	1006.7	983.8	967.1	964.3	930.9	895.4	846.7	802.9
20°	1039.4	1037.3	1039.4	1033.2	1015.8	1001.9	999.1	962.2	919.8	862.0	811.2
22.5°	1054.0	1051.9	1055.4	1052.6	1040.1	1031.8	1029.7	993.5	944.8	878.0	819.6
25°	1079.8	1079.8	1079.8	1074.9	1063.1	1060.3	1060.3	1029.0	976.8	898.9	832.1
27.5°	1131.3	1128.5	1125.0	1111.1	1090.9	1090.2	1094.4	1065.2	1013.7	926.0	847.4
30°	1207.1	1205.7	1192.5	1163.3	1129.2	1125.7	1128.5	1104.1	1053.3	954.5	864.8
32.5°	1305.2	1300.3	1273.2	1229.4	1180.7	1164.7	1170.2	1144.5	1095.1	983.8	881.5
35°	1374.8	1376.2	1356.7	1317.0	1259.3	1216.8	1221.0	1189.7	1140.3	1016.5	902.4
37.5°	1454.8	1459.6	1430.4	1400.5	1346.9	1274.6	1278.8	1236.3	1185.5	1057.5	924.6
40°	1565.4	1555.7	1506.3	1470.8	1411.6	1335.1	1338.6	1288.5	1237.7	1096.5	950.4
42.5°	1657.9	1640.5	1580.7	1535.5	1464.5	1399.1	1402.6	1344.9	1290.6	1139.6	978.9
45°	1790.8	1742.8	1656.5	1634.3	1518.8	1461.7	1465.2	1404.7	1346.2	1185.5	1009.5
47.5°	1868.0	1791.5	1736.5	1724.7	1578.6	1526.4	1530.6	1468.0	1406.1	1237.7	1041.5
50°	1863.2	1813.8	1797.8	1768.6	1631.5	1587.0	1591.1	1533.4	1466.6	1289.2	1072.1
52.5°	1831.2	1840.2	1831.9	1783.2	1684.4	1645.4	1650.3	1598.1	1528.5	1337.2	1100.6
55°	1880.6	1886.8	1870.8	1806.8	1742.8	1703.8	1709.4	1666.3	1589.7	1379.6	1125.0
57.5°	1939.7	1917.4	1901.4	1848.6	1803.3	1767.2	1773.4	1735.9	1642.6	1413.7	1143.8
60°	1936.9	1890.3	1906.3	1851.3	1844.4	1825.6	1831.2	1792.9	1683.0	1438.8	1151.4
62.5°	1794.3	1769.2	1850.0	1831.2	1877.8	1877.8	1884.7	1827.7	1707.3	1449.2	1147.3
65°	1546.6	1548.0	1689.9	1767.9	1917.4	1949.4	1955.0	1849.3	1693.4	1418.6	1108.3
67.5°	1232.1	1241.2	1445.0	1607.1	1877.8	1998.1	1998.8	1868.7	1633.6	1332.3	1017.9
70°	901.7	908.6	1149.4	1346.2	1690.6	1890.3	1879.2	1813.8	1503.5	1182.0	876.6
72.5°	609.5	615.7	863.4	1033.9	1387.3	1609.9	1585.6	1603.0	1281.5	971.2	704.8
75°	409.8	417.4	614.3	739.6	1020.6	1222.4	1168.1	1214.1	991.4	735.4	514.1
77.5°	258.1	263.0	390.3	484.9	697.1	832.1	777.8	778.5	571.2	395.9	276.2
80°	164.2	165.6	236.5	279.7	403.5	500.2	442.5	359.7	257.4	210.1	164.9
82.5°	95.3	93.2	141.2	157.9	192.0	189.9	157.2	148.9	112.7	105.1	84.2
85°	38.3	35.5	61.9	57.7	58.4	61.9	45.9	45.9	36.9	28.5	20.9
87.5°	7.7	7.7	8.3	7.7	7.7	8.3	6.3	6.3	5.6	5.6	5.6
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°	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5
2.5°	757.0	755.6	752.1	743.0	738.2	735.4	731.2	729.8	729.1	729.8	731.9
5°	759.0	754.2	744.4	729.8	720.1	713.8	706.9	704.1	702.0	702.0	704.1
7.5°	760.4	752.8	736.1	714.5	700.6	690.9	682.5	679.0	678.3	680.4	681.1
10°	761.1	750.0	726.3	699.2	681.1	668.6	660.3	658.2	660.3	664.4	665.1
12.5°	766.0	750.7	720.8	688.8	667.2	654.7	648.4	648.4	654.0	661.6	662.3
15°	774.4	755.6	718.0	680.4	658.2	647.0	644.9	648.4	656.8	668.6	670.0
17.5°	780.6	758.3	711.7	669.3	646.3	639.4	642.9	651.2	663.0	679.0	680.4
20°	784.8	758.3	702.7	656.1	634.5	633.1	642.9	656.1	668.6	687.4	689.5
22.5°	789.0	757.0	692.3	640.1	621.3	625.5	643.6	660.3	672.8	692.9	696.4
25°	796.6	759.0	681.8	624.1	607.4	619.2	642.9	663.0	676.3	697.1	702.7
27.5°	807.0	763.9	674.2	609.5	593.5	609.5	638.0	662.3	676.3	696.4	702.7
30°	818.2	769.5	665.1	593.5	577.5	595.5	627.6	654.7	670.7	689.5	697.1
32.5°	830.0	775.7	657.5	576.1	558.0	576.8	612.2	642.9	660.3	677.6	686.0
35°	846.0	786.9	653.3	562.2	540.6	557.3	592.8	627.6	646.3	662.3	672.1
37.5°	865.5	800.8	651.2	548.2	521.8	535.7	571.9	608.8	628.9	642.2	651.2
40°	887.8	818.2	650.5	535.0	503.0	513.5	550.3	587.2	606.7	617.1	624.8
42.5°	912.8	837.7	649.1	521.8	484.2	492.6	529.5	565.6	582.3	591.4	598.3
45°	939.2	857.1	646.3	505.8	464.1	473.8	507.9	539.9	557.3	564.9	572.6
47.5°	965.7	876.6	640.8	487.7	446.0	455.0	484.9	512.8	526.7	533.6	541.3
50°	991.4	894.0	627.6	466.8	427.2	435.5	458.5	477.3	487.7	493.3	500.9
52.5°	1014.4	905.8	608.8	442.5	408.4	412.6	427.9	443.9	452.2	452.9	459.9
55°	1033.9	912.1	581.6	417.4	388.2	388.9	397.3	409.8	413.3	410.5	415.4
57.5°	1045.0	908.6	551.7	391.7	367.3	364.6	370.8	377.1	377.8	370.8	375.7
60°	1047.8	892.6	512.8	366.0	346.5	338.8	340.9	339.5	338.1	335.3	339.5
62.5°	1033.9	858.5	469.6	340.9	324.2	312.4	311.7	311.0	313.1	313.8	314.5
65°	983.1	794.5	418.1	315.2	300.6	284.6	283.9	292.2	295.0	290.8	292.2
67.5°	885.0	696.4	361.8	285.3	270.6	256.7	262.3	267.2	272.0	270.6	272.0
70°	745.8	571.9	310.3	251.9	237.9	230.3	236.5	240.7	241.4	240.0	241.4
72.5°	586.5	446.7	262.3	217.8	205.2	201.8	209.4	212.9	219.2	221.9	222.6
75°	423.7	329.8	215.0	180.9	170.5	170.5	177.4	183.7	189.2	185.8	183.7
77.5°	236.5	196.9	154.5	124.5	126.6	136.4	139.1	146.1	151.7	151.0	149.6
80°	143.3	123.1	104.4	80.7	80.0	87.7	105.8	117.6	120.4	114.1	113.4
82.5°	74.4	64.7	55.7	45.2	50.1	58.4	61.2	73.7	81.4	78.6	82.1
85°	18.8	18.1	20.2	20.9	25.7	28.5	31.3	36.9	24.4	11.8	11.8
87.5°	5.6	5.6	7.0	7.0	9.0	11.1	10.4	10.4	5.6	0.7	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)