

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: P798787

Luminaire Tested: **ARCH1-30-750-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798787
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: ARCH1-30-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4792 lumens
Efficiency: N/A
Efficacy: 145.2 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

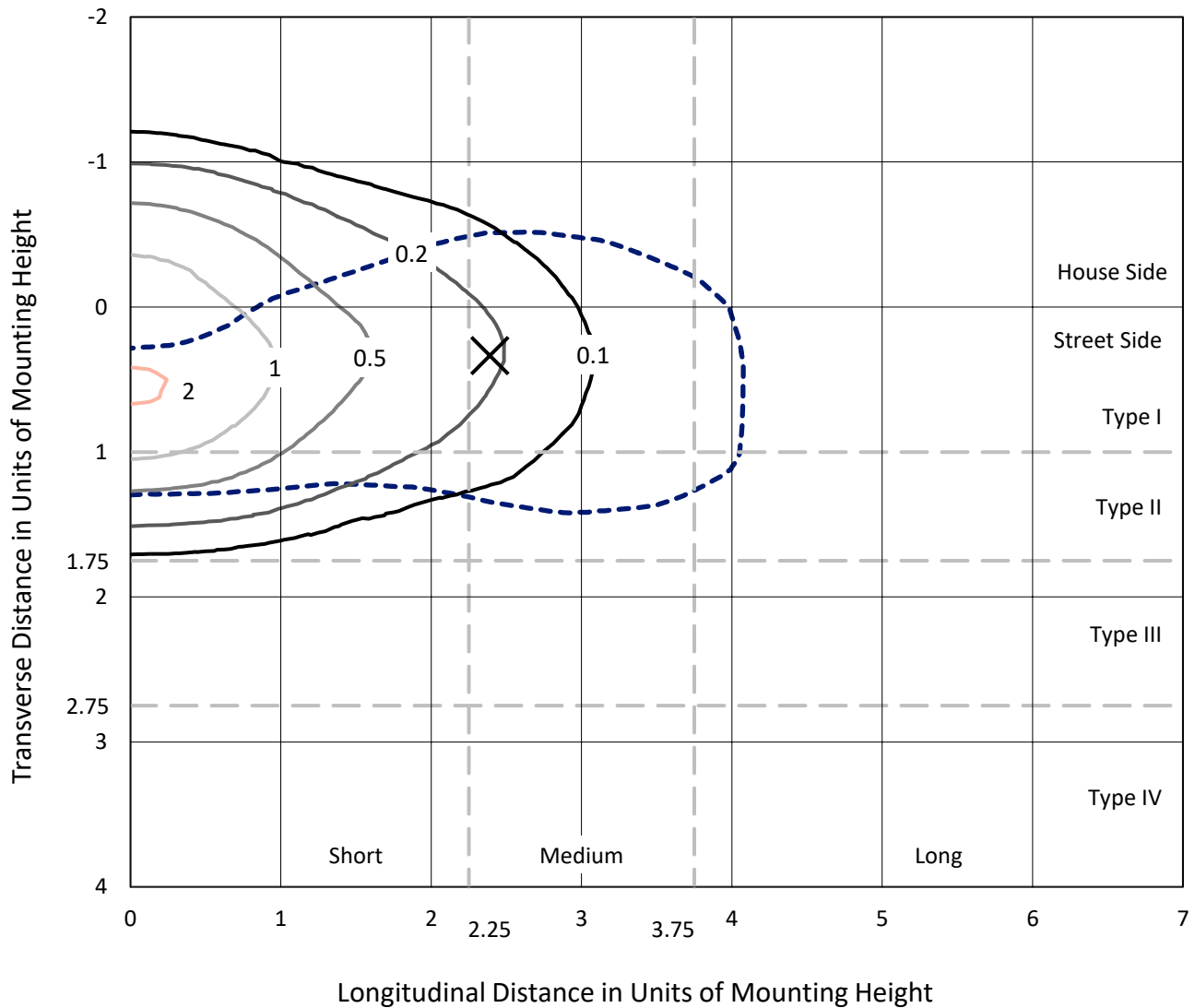


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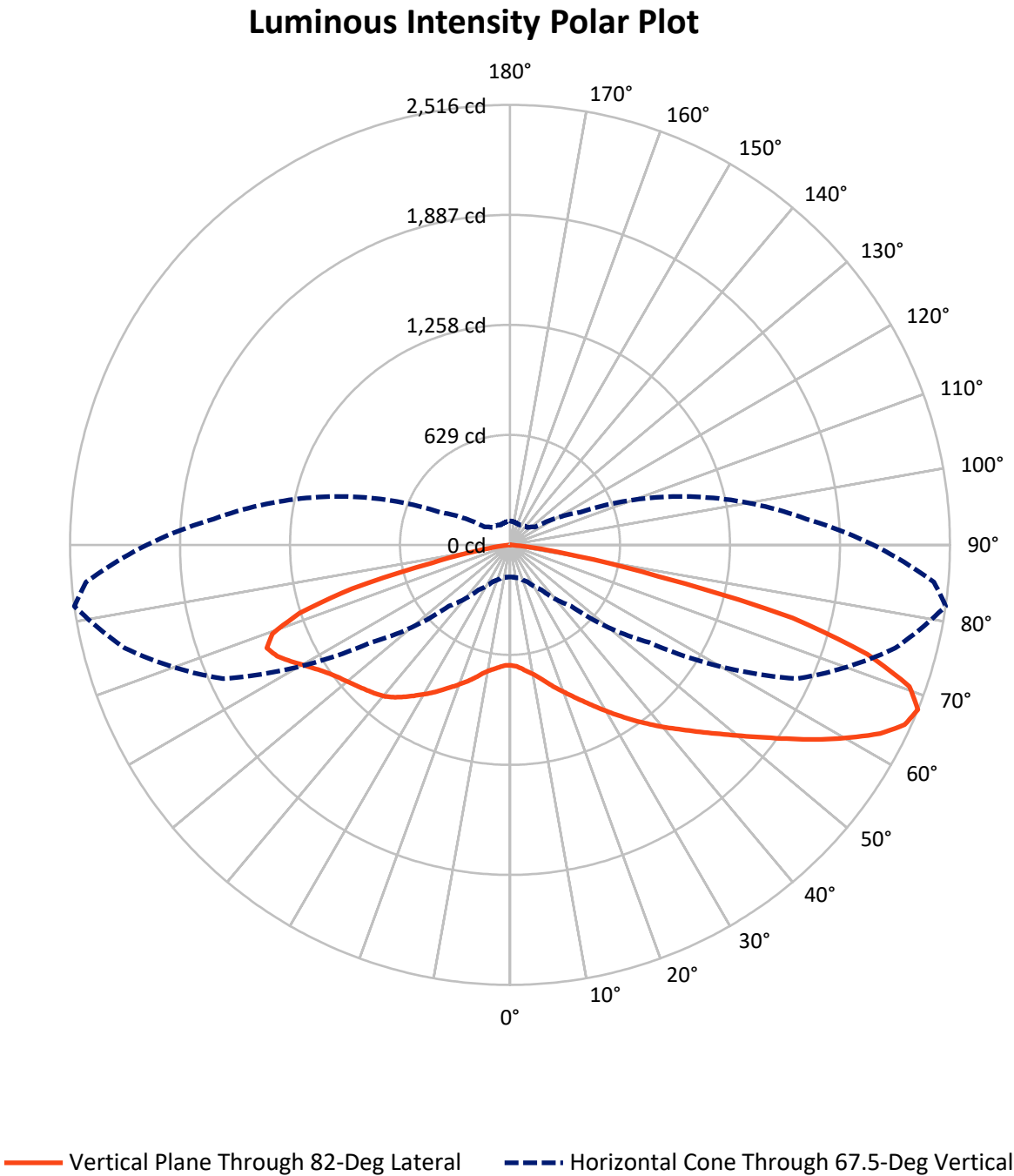
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Medium - N/A

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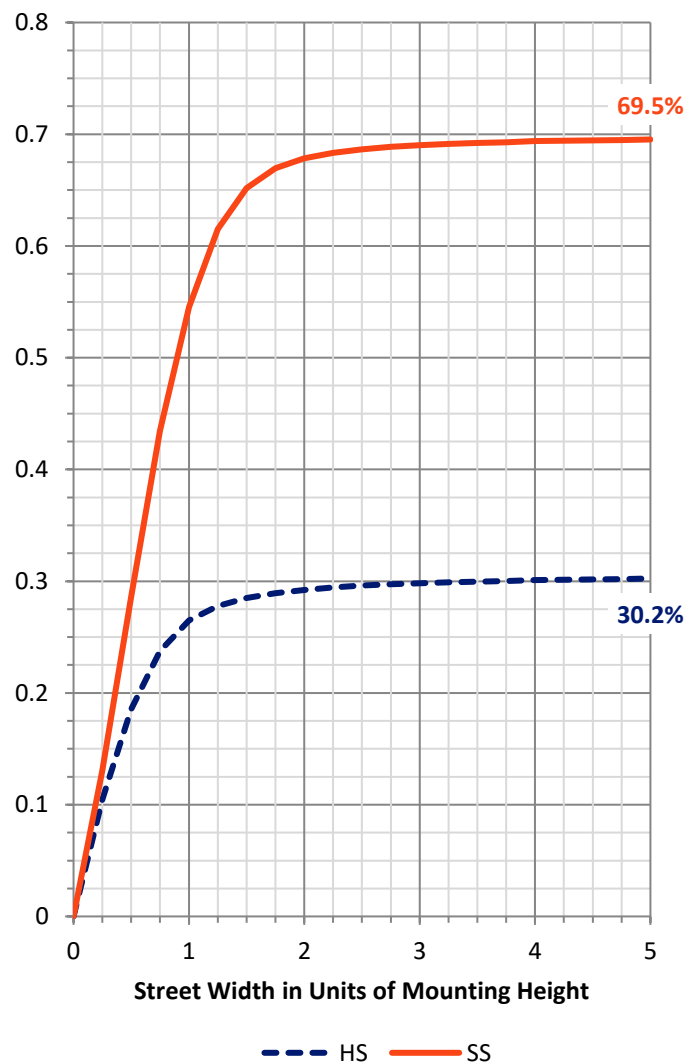
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1459.4	0.0	1459.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3332.6	0.0	3332.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	4792.0	0.0	4792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	1.5
10°-20°	256.4	5.4
20°-30°	515.4	10.8
30°-40°	809.5	16.9
40°-50°	986.2	20.6
50°-60°	931.8	19.4
60°-70°	769.5	16.1
70°-80°	419.0	8.7
80°-90°	32.9	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°	4792.0	100.0
0°-180°	4792.0	100.0

Coefficient of Utilization



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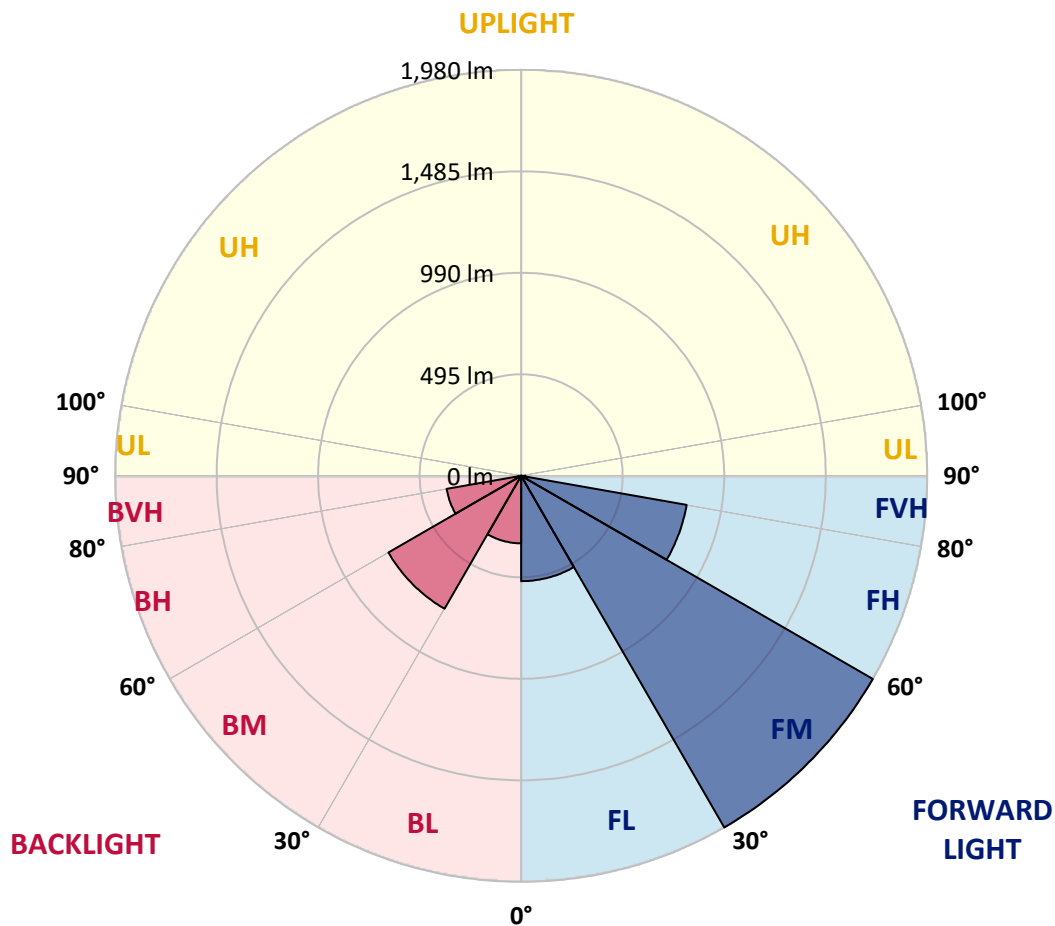
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.9	10.7			
FM	(30°-60°)	1979.8	41.3			
FH	(60°-80°)	819.1	17.1			G1/1800
FVH	(80°-90°)	19.9	0.4			G1/100
BL	(0°-30°)	329.1	6.9	B1/500		
BM	(30°-60°)	747.8	15.6	B1/1000		
BH	(60°-80°)	369.4	7.7	B1/500		G1/500
BVH	(80°-90°)	13.1	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°	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8
2.5°	720.2	720.2	725.7	725.7	720.9	713.2	711.1	702.8	695.1	695.1	695.8
5°	789.0	788.3	792.5	787.0	775.1	759.8	749.4	731.3	716.0	711.1	710.4
7.5°	873.2	872.5	874.6	865.6	843.3	818.3	797.4	768.2	743.1	732.7	729.9
10°	967.2	966.5	964.4	949.1	919.2	880.2	848.9	808.5	771.0	754.3	750.8
12.5°	1075.0	1073.6	1068.8	1046.5	1005.4	955.3	910.1	857.9	807.8	784.9	777.2
15°	1195.4	1193.3	1184.3	1157.1	1102.2	1038.8	980.4	913.6	852.4	822.4	812.0
17.5°	1322.0	1322.0	1308.1	1267.8	1206.5	1127.9	1055.5	970.6	899.0	862.1	849.6
20°	1450.8	1450.1	1432.7	1384.0	1311.6	1221.1	1129.3	1036.1	947.0	902.5	887.2
22.5°	1586.4	1585.0	1563.5	1507.8	1421.5	1319.2	1212.1	1100.8	999.9	946.3	926.8
25°	1742.3	1740.2	1713.8	1645.6	1543.3	1427.8	1305.3	1176.6	1060.4	995.0	972.0
27.5°	1907.9	1905.1	1873.8	1794.5	1682.5	1543.3	1408.3	1264.3	1127.2	1049.3	1023.5
30°	2055.4	2053.3	2019.2	1937.8	1809.1	1658.1	1506.4	1352.0	1197.5	1107.0	1075.0
32.5°	2166.7	2166.7	2136.1	2056.1	1922.5	1768.0	1605.2	1434.8	1270.5	1169.0	1131.4
35°	2234.2	2236.3	2209.9	2145.9	2019.9	1871.7	1707.5	1532.2	1348.5	1235.1	1194.7
37.5°	2244.0	2250.9	2235.6	2192.5	2087.4	1958.0	1807.7	1626.1	1429.2	1301.9	1256.6
40°	2198.7	2203.6	2204.3	2187.6	2115.2	2019.9	1896.1	1725.6	1514.8	1372.1	1319.9
42.5°	2108.3	2111.8	2118.0	2122.9	2095.1	2047.1	1963.6	1818.1	1605.9	1443.8	1382.6
45°	1991.4	1990.7	2001.1	2022.0	2020.6	2031.8	2001.1	1902.3	1700.5	1525.2	1452.1
47.5°	1816.7	1813.3	1850.1	1897.5	1921.1	1973.3	2001.8	1968.4	1803.5	1615.0	1531.5
50°	1543.3	1539.8	1620.5	1731.9	1801.4	1880.8	1963.6	2008.1	1911.4	1715.9	1617.7
52.5°	1210.7	1207.2	1309.5	1504.3	1656.0	1771.5	1886.3	2017.1	2013.7	1828.6	1715.2
55°	900.4	897.6	997.1	1207.9	1453.5	1644.9	1791.7	1993.5	2109.7	1958.0	1833.4
57.5°	634.6	633.2	719.5	894.1	1193.3	1490.4	1700.5	1947.6	2198.0	2098.5	1967.0
60°	445.3	443.2	505.9	640.8	902.5	1257.3	1610.1	1886.3	2264.2	2237.0	2109.0
62.5°	299.9	298.5	343.0	455.8	640.8	967.9	1473.0	1845.3	2301.7	2376.2	2252.3
65°	227.5	226.8	247.0	308.9	453.7	695.1	1255.2	1840.4	2306.6	2480.5	2374.1
67.5°	183.7	184.4	195.5	231.0	313.8	494.0	973.4	1809.8	2280.9	2516.0	2433.2
70°	150.3	150.3	155.2	178.8	231.7	333.3	679.8	1670.6	2209.2	2423.5	2363.0
72.5°	114.8	115.5	130.8	144.7	174.6	233.8	435.6	1382.6	2040.1	2136.8	2090.9
75°	91.2	90.5	99.5	119.0	135.7	167.0	267.2	991.5	1736.0	1669.9	1640.7
77.5°	65.4	64.7	71.7	88.4	103.0	118.3	159.3	500.3	944.2	867.7	846.1
80°	44.5	43.1	49.4	61.2	68.2	69.6	77.9	192.0	411.9	388.3	383.4
82.5°	23.0	23.0	26.4	34.8	35.5	36.2	34.8	61.9	136.4	127.3	121.8
85°	9.0	9.0	9.7	11.8	11.8	12.5	12.5	16.0	14.6	13.9	13.2
87.5°	0.7	0.7	1.4	1.4	2.1	2.1	2.1	2.8	3.5	3.5	3.5
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°	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8
2.5°	694.4	691.6	682.6	680.5	679.1	677.0	677.7	672.8	670.8	671.5	668.7
5°	706.9	702.1	690.9	686.1	684.7	682.6	684.7	681.2	677.7	679.1	677.7
7.5°	724.3	717.4	703.5	698.6	697.9	695.8	698.6	695.8	693.0	694.4	691.6
10°	742.4	733.4	718.1	713.2	713.2	712.5	715.3	711.1	708.3	709.0	707.6
12.5°	768.9	757.0	740.3	736.2	734.1	736.2	736.9	731.3	726.4	727.1	725.0
15°	800.9	787.7	769.6	763.3	761.9	761.2	758.4	751.5	745.2	744.5	742.4
17.5°	835.7	819.0	797.4	791.1	784.9	782.8	775.8	766.8	757.0	757.0	754.3
20°	869.1	850.3	824.5	815.5	806.4	798.1	786.3	771.6	759.1	757.0	754.3
22.5°	905.2	883.0	853.1	839.8	823.8	807.1	787.0	767.5	751.5	748.0	745.9
25°	945.6	917.8	882.3	862.8	837.1	811.3	781.4	756.3	737.6	732.0	730.6
27.5°	990.1	956.7	913.6	885.1	847.5	807.1	768.9	738.9	716.0	709.0	706.9
30°	1035.4	995.7	942.1	900.4	847.5	793.9	745.9	711.1	684.7	674.9	673.5
32.5°	1080.6	1036.1	967.9	908.7	839.1	771.6	716.0	674.9	645.0	633.2	636.0
35°	1134.9	1080.6	991.5	912.2	825.2	744.5	681.9	633.9	603.3	592.8	594.9
37.5°	1191.2	1125.1	1010.3	909.4	805.7	713.9	643.6	597.0	558.7	540.6	542.7
40°	1239.9	1165.5	1023.5	899.7	780.7	679.1	606.0	544.8	491.9	474.5	472.5
42.5°	1285.8	1195.4	1030.5	885.1	752.2	638.7	552.5	473.8	421.0	399.4	400.1
45°	1333.9	1224.6	1027.7	865.6	716.7	591.4	483.6	404.3	357.6	338.2	338.9
47.5°	1388.8	1255.9	1024.9	844.7	673.5	530.2	417.5	343.0	302.7	288.8	287.4
50°	1447.3	1290.7	1021.4	819.0	625.5	462.0	352.1	286.0	251.9	242.8	240.7
52.5°	1513.4	1328.3	1019.4	788.3	567.8	389.7	293.6	235.9	212.9	206.7	206.0
55°	1592.7	1372.1	1022.1	751.5	498.2	321.5	244.2	203.2	187.9	184.4	183.7
57.5°	1689.4	1428.5	1030.5	708.3	425.1	262.3	208.0	183.0	173.3	170.5	170.5
60°	1794.5	1492.5	1045.8	659.6	352.1	216.4	184.4	167.0	162.8	166.3	166.3
62.5°	1907.9	1567.6	1072.9	600.5	283.9	183.0	165.6	153.8	151.0	157.9	158.6
65°	2013.0	1640.7	1090.3	529.5	225.4	158.6	151.0	140.6	141.9	148.9	148.2
67.5°	2077.7	1701.2	1066.0	440.4	178.8	140.6	135.7	126.6	130.1	135.7	136.4
70°	2038.0	1667.2	945.6	332.6	139.9	122.5	119.0	113.4	116.2	123.2	125.9
72.5°	1843.9	1493.2	735.5	224.7	112.7	103.0	104.4	101.6	105.1	111.3	117.6
75°	1496.7	1128.6	493.3	144.0	89.1	87.7	89.8	87.7	89.1	95.3	98.8
77.5°	781.4	550.4	245.6	89.8	66.1	68.2	71.7	72.4	76.5	77.9	79.3
80°	364.6	247.7	102.3	50.1	43.8	48.0	55.0	55.7	57.1	59.1	59.8
82.5°	119.0	74.5	47.3	27.1	25.0	27.1	35.5	42.4	43.1	47.3	47.3
85°	12.5	7.7	10.4	11.1	9.7	11.8	16.0	15.3	7.0	4.2	4.2
87.5°	3.5	2.8	3.5	3.5	2.8	2.8	2.1	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)