

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: P798835

Luminaire Tested: **ARCH1-40-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798835
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: ARCH1-40-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4933 lumens
Efficiency: N/A
Efficacy: 114.7 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

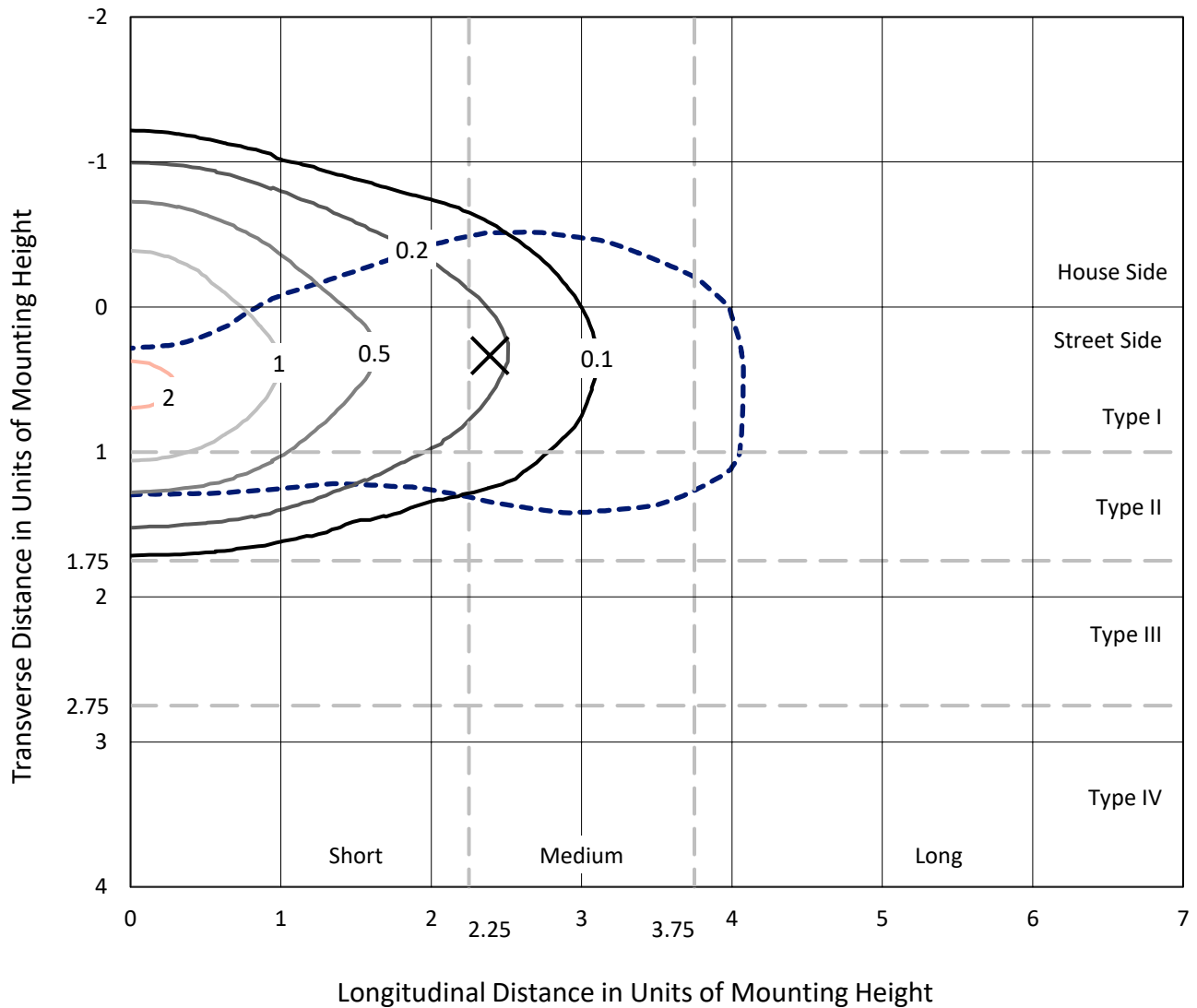
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

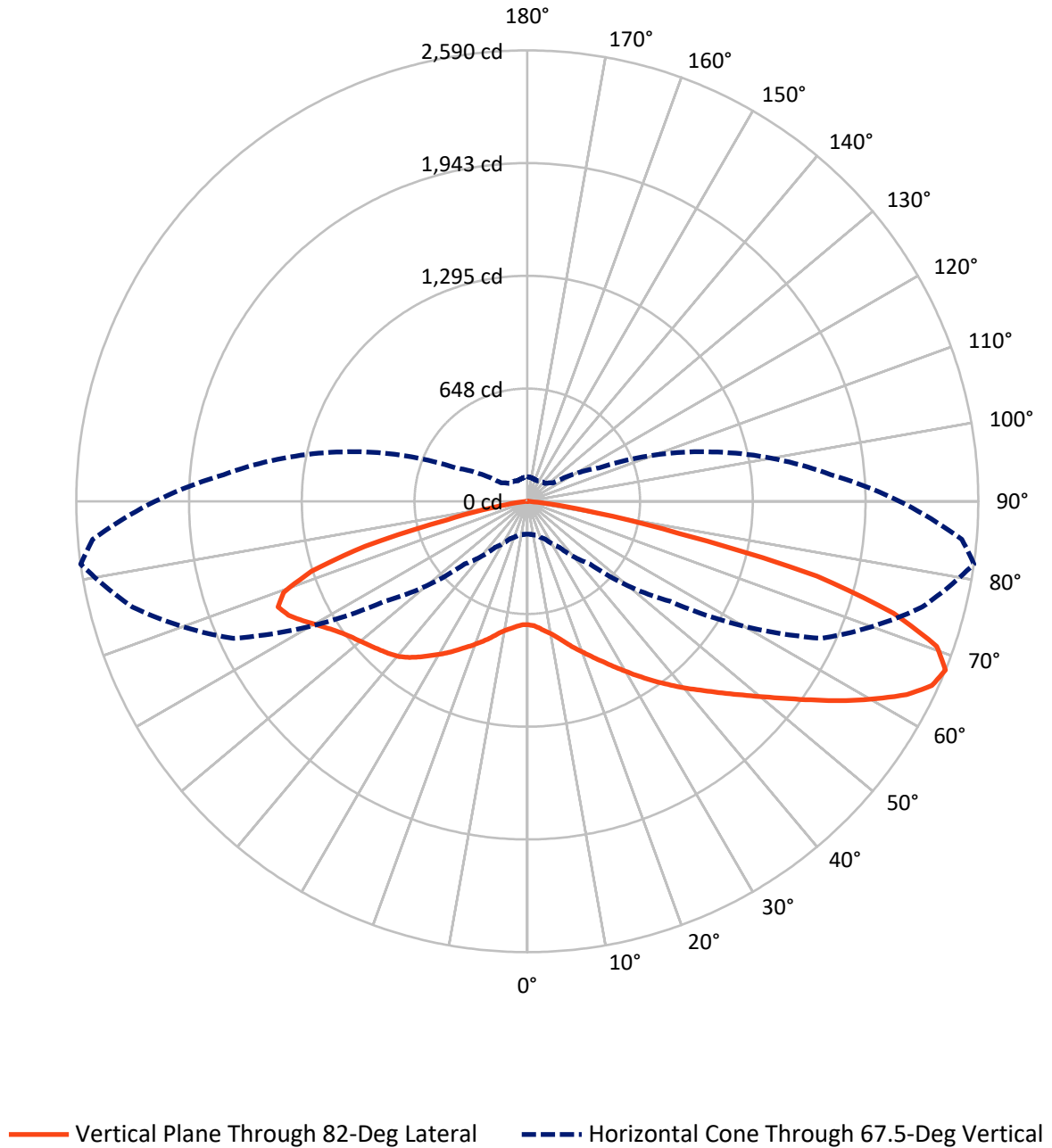
✕ Max cd
 - - - 1/2 Max cd



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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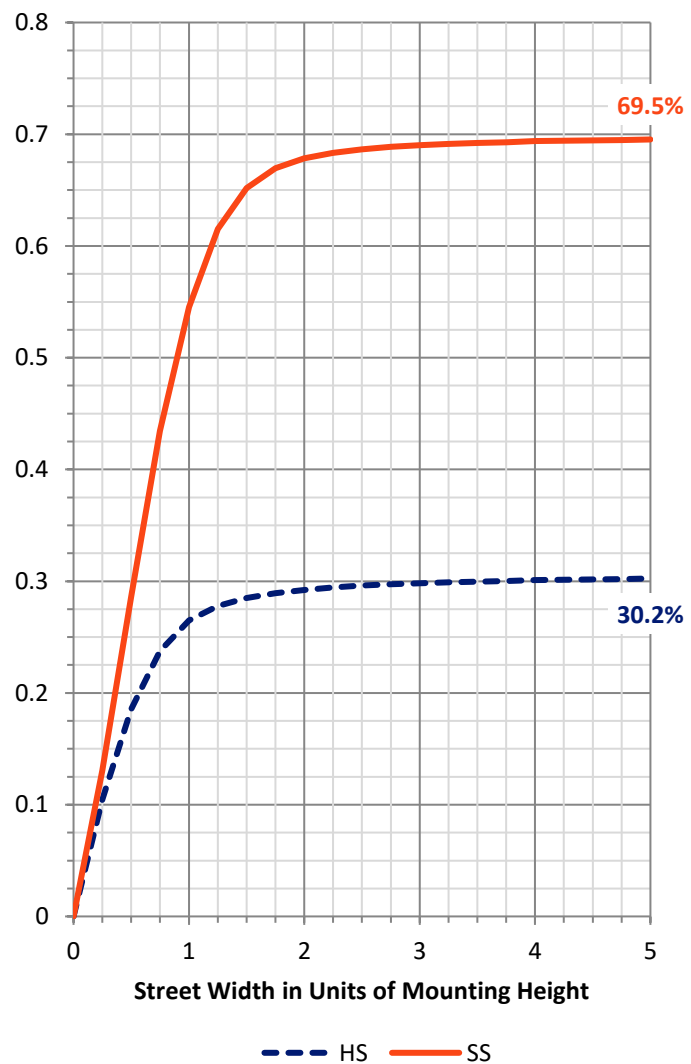
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.3	0.0	1502.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3430.7	0.0	3430.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	4933.0	0.0	4933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.5
10°-20°	264.0	5.4
20°-30°	530.5	10.8
30°-40°	833.4	16.9
40°-50°	1015.2	20.6
50°-60°	959.2	19.4
60°-70°	792.1	16.1
70°-80°	431.3	8.7
80°-90°	33.9	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°	4933.0	100.0
0°-180°	4933.0	100.0

Coefficient of Utilization



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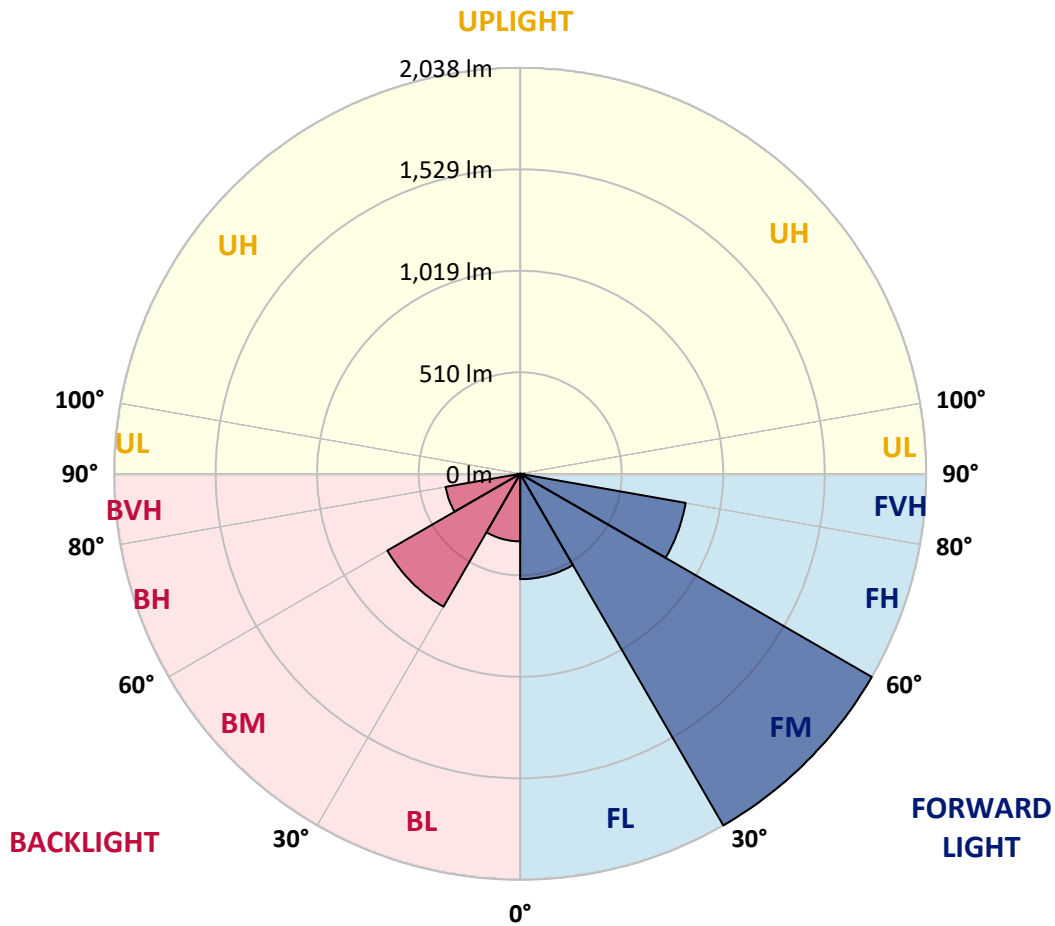
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.0	10.7			
FM (30°-60°)	2038.0	41.3			
FH (60°-80°)	843.2	17.1			G1/1800
FVH (80°-90°)	20.4	0.4			G1/100
BL (0°-30°)	338.8	6.9	B1/500		
BM (30°-60°)	769.8	15.6	B1/1000		
BH (60°-80°)	380.2	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°	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1
2.5°	741.3	741.3	747.1	747.1	742.1	734.2	732.0	723.4	715.6	715.6	716.3
5°	812.3	811.5	815.8	810.1	797.9	782.2	771.4	752.8	737.1	732.0	731.3
7.5°	898.9	898.2	900.4	891.1	868.1	842.3	820.9	790.8	765.0	754.2	751.4
10°	995.6	994.9	992.8	977.0	946.2	906.1	873.9	832.3	793.6	776.4	772.9
12.5°	1106.7	1105.2	1100.2	1077.3	1035.0	983.5	936.9	883.2	831.6	808.0	800.1
15°	1230.6	1228.4	1219.1	1191.2	1134.6	1069.4	1009.2	940.5	877.4	846.6	835.9
17.5°	1360.9	1360.9	1346.6	1305.1	1242.0	1161.1	1086.6	999.2	925.4	887.5	874.6
20°	1493.4	1492.7	1474.8	1424.7	1350.2	1257.1	1162.5	1066.5	974.9	929.0	913.3
22.5°	1633.1	1631.7	1609.5	1552.2	1463.4	1358.1	1247.8	1133.2	1029.3	974.1	954.1
25°	1793.6	1791.4	1764.2	1694.0	1588.7	1469.8	1343.7	1211.2	1091.6	1024.3	1000.6
27.5°	1964.0	1961.2	1928.9	1847.3	1732.0	1588.7	1449.7	1301.5	1160.4	1080.1	1053.6
30°	2115.9	2113.7	2078.6	1994.8	1862.3	1706.9	1550.7	1391.7	1232.7	1139.6	1106.7
32.5°	2230.5	2230.5	2199.0	2116.6	1979.1	1820.1	1652.5	1477.0	1307.9	1203.3	1164.7
35°	2300.0	2302.1	2274.9	2209.0	2079.4	1926.8	1757.7	1577.2	1388.1	1271.4	1229.9
37.5°	2310.0	2317.2	2301.4	2257.0	2148.8	2015.6	1860.9	1673.9	1471.2	1340.2	1293.6
40°	2263.4	2268.5	2269.2	2252.0	2177.5	2079.4	1951.9	1776.4	1559.3	1412.5	1358.8
42.5°	2170.3	2173.9	2180.4	2185.4	2156.7	2107.3	2021.3	1871.6	1653.2	1486.3	1423.2
45°	2050.0	2049.3	2060.0	2081.5	2080.1	2091.5	2060.0	1958.3	1750.6	1570.1	1494.9
47.5°	1870.2	1866.6	1904.6	1953.3	1977.6	2031.4	2060.7	2026.4	1856.6	1662.5	1576.5
50°	1588.7	1585.1	1668.2	1782.8	1854.4	1936.1	2021.3	2067.2	1967.6	1766.3	1665.3
52.5°	1246.3	1242.7	1348.0	1548.6	1704.7	1823.6	1941.8	2076.5	2072.9	1882.4	1765.6
55°	926.9	924.0	1026.4	1243.5	1496.3	1693.3	1844.4	2052.1	2171.8	2015.6	1887.4
57.5°	653.2	651.8	740.6	920.4	1228.4	1534.3	1750.6	2004.9	2262.7	2160.3	2024.9
60°	458.4	456.3	520.7	659.7	929.0	1294.3	1657.5	1941.8	2330.8	2302.8	2171.0
62.5°	308.7	307.3	353.1	469.2	659.7	996.3	1516.4	1899.6	2369.5	2446.1	2318.6
65°	234.2	233.5	254.3	318.0	467.0	715.6	1292.2	1894.6	2374.5	2553.5	2443.9
67.5°	189.1	189.8	201.3	237.8	323.0	508.6	1002.1	1863.0	2348.0	2590.1	2504.8
70°	154.7	154.7	159.7	184.1	238.5	343.1	699.8	1719.8	2274.2	2494.8	2432.5
72.5°	118.2	118.9	134.7	149.0	179.8	240.7	448.4	1423.2	2100.1	2199.7	2152.4
75°	93.8	93.1	102.4	122.5	139.7	171.9	275.1	1020.7	1787.1	1719.1	1689.0
77.5°	67.3	66.6	73.8	91.0	106.0	121.8	164.0	515.0	972.0	893.2	871.0
80°	45.8	44.4	50.9	63.0	70.2	71.6	80.2	197.7	424.0	399.7	394.7
82.5°	23.6	23.6	27.2	35.8	36.5	37.2	35.8	63.7	140.4	131.1	125.3
85°	9.3	9.3	10.0	12.2	12.2	12.9	12.9	16.5	15.0	14.3	13.6
87.5°	0.7	0.7	1.4	1.4	2.1	2.1	2.1	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°	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1
2.5°	714.8	712.0	702.7	700.5	699.1	696.9	697.7	692.6	690.5	691.2	688.3
5°	727.7	722.7	711.3	706.3	704.8	702.7	704.8	701.2	697.7	699.1	697.7
7.5°	745.6	738.5	724.2	719.1	718.4	716.3	719.1	716.3	713.4	714.8	712.0
10°	764.3	755.0	739.2	734.2	734.2	733.5	736.3	732.0	729.2	729.9	728.5
12.5°	791.5	779.3	762.1	757.8	755.7	757.8	758.5	752.8	747.8	748.5	746.4
15°	824.4	810.8	792.2	785.8	784.3	783.6	780.7	773.6	767.1	766.4	764.3
17.5°	860.3	843.1	820.9	814.4	808.0	805.8	798.7	789.3	779.3	779.3	776.4
20°	894.6	875.3	848.8	839.5	830.2	821.6	809.4	794.4	781.5	779.3	776.4
22.5°	931.9	909.0	878.2	864.5	848.1	830.9	810.1	790.1	773.6	770.0	767.9
25°	973.4	944.8	908.2	888.2	861.7	835.2	804.4	778.6	759.3	753.5	752.1
27.5°	1019.3	984.9	940.5	911.1	872.4	830.9	791.5	760.7	737.1	729.9	727.7
30°	1065.8	1025.0	969.8	926.9	872.4	817.3	767.9	732.0	704.8	694.8	693.4
32.5°	1112.4	1066.5	996.3	935.5	863.8	794.4	737.1	694.8	664.0	651.8	654.7
35°	1168.3	1112.4	1020.7	939.0	849.5	766.4	702.0	652.5	621.0	610.3	612.4
37.5°	1226.3	1158.2	1040.0	936.2	829.5	734.9	662.6	614.6	575.2	556.5	558.7
40°	1276.4	1199.8	1053.6	926.1	803.7	699.1	623.9	560.8	506.4	488.5	486.4
42.5°	1323.7	1230.6	1060.8	911.1	774.3	657.5	568.7	487.8	433.3	411.1	411.9
45°	1373.1	1260.7	1057.9	891.1	737.8	608.8	497.8	416.2	368.2	348.1	348.8
47.5°	1429.7	1292.9	1055.1	869.6	693.4	545.8	429.8	353.1	311.6	297.3	295.8
50°	1489.9	1328.7	1051.5	843.1	643.9	475.6	362.4	294.4	259.3	250.0	247.8
52.5°	1557.9	1367.4	1049.3	811.5	584.5	401.1	302.3	242.8	219.2	212.7	212.0
55°	1639.6	1412.5	1052.2	773.6	512.9	330.9	251.4	209.2	193.4	189.8	189.1
57.5°	1739.1	1470.5	1060.8	729.2	437.6	270.0	214.2	188.4	178.4	175.5	175.5
60°	1847.3	1536.4	1076.6	679.0	362.4	222.8	189.8	171.9	167.6	171.2	171.2
62.5°	1964.0	1613.8	1104.5	618.1	292.2	188.4	170.5	158.3	155.4	162.6	163.3
65°	2072.2	1689.0	1122.4	545.1	232.1	163.3	155.4	144.7	146.1	153.3	152.6
67.5°	2138.8	1751.3	1097.3	453.4	184.1	144.7	139.7	130.4	133.9	139.7	140.4
70°	2098.0	1716.2	973.4	342.4	144.0	126.1	122.5	116.8	119.6	126.8	129.6
72.5°	1898.1	1537.1	757.1	231.4	116.0	106.0	107.4	104.6	108.2	114.6	121.1
75°	1540.7	1161.8	507.8	148.3	91.7	90.3	92.4	90.3	91.7	98.1	101.7
77.5°	804.4	566.6	252.8	92.4	68.0	70.2	73.8	74.5	78.8	80.2	81.7
80°	375.3	255.0	105.3	51.6	45.1	49.4	56.6	57.3	58.7	60.9	61.6
82.5°	122.5	76.6	48.7	27.9	25.8	27.9	36.5	43.7	44.4	48.7	48.7
85°	12.9	7.9	10.7	11.5	10.0	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	2.1	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)