

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: P799475

Luminaire Tested: **ARCH2-30-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799475
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: ARCH2-30-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

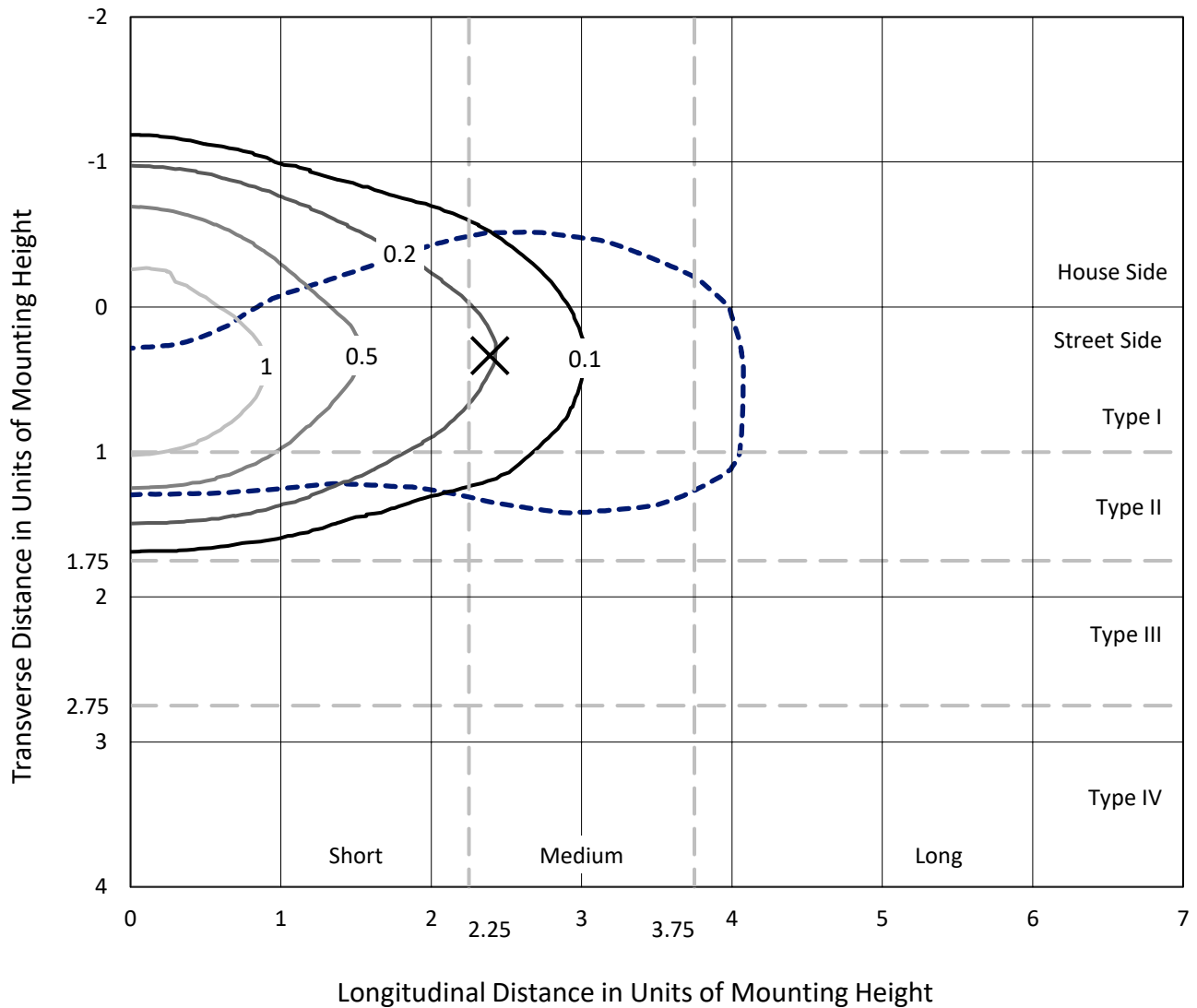
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

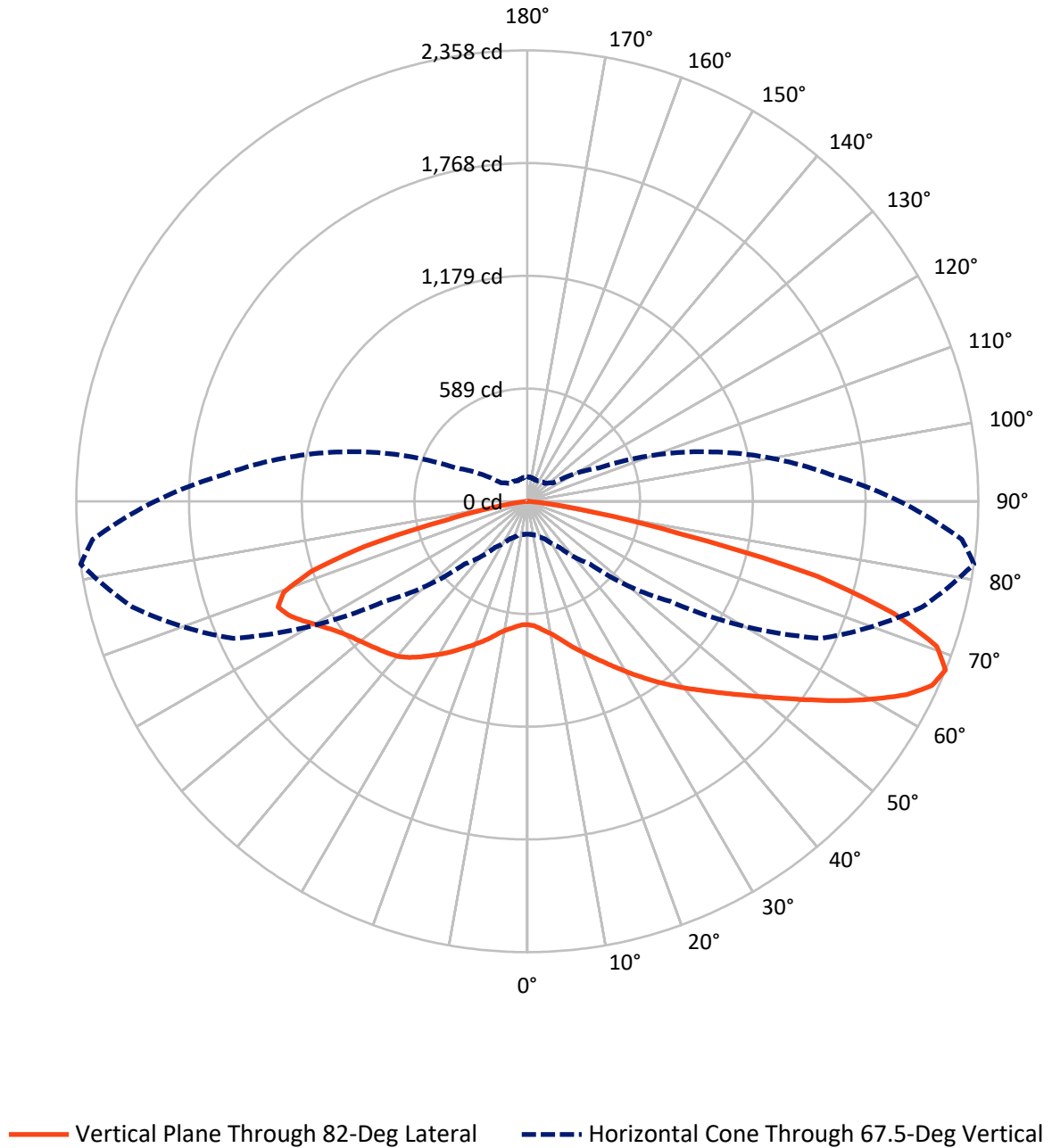
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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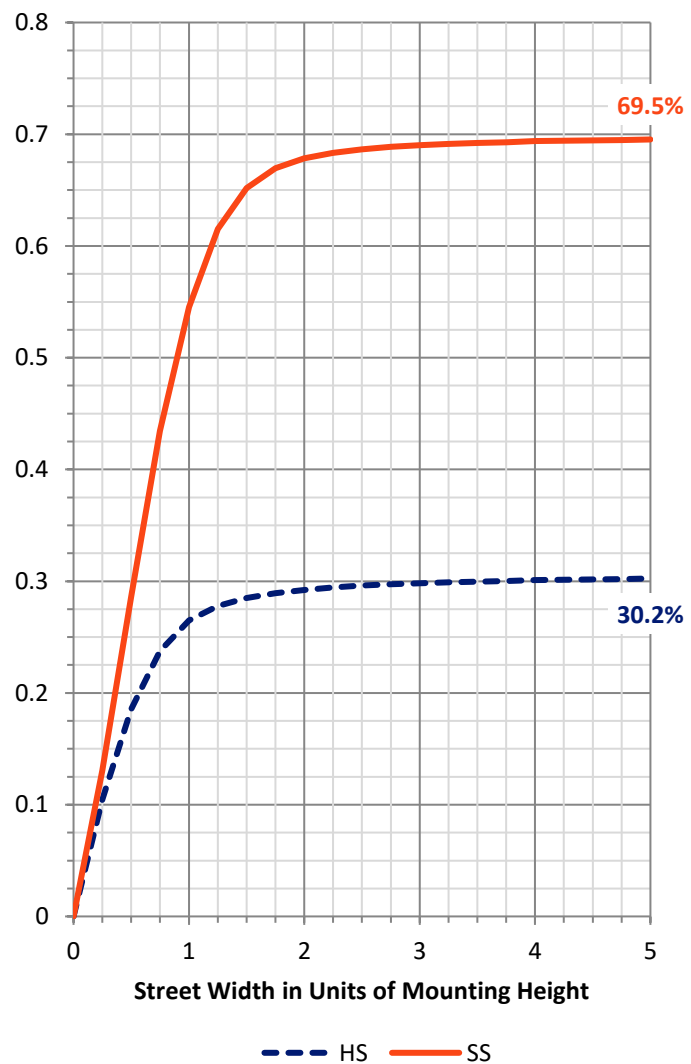
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1367.4	0.0	1367.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3122.6	0.0	3122.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	4490.0	0.0	4490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.5
10°-20°	240.3	5.4
20°-30°	482.9	10.8
30°-40°	758.5	16.9
40°-50°	924.0	20.6
50°-60°	873.1	19.4
60°-70°	721.0	16.1
70°-80°	392.6	8.7
80°-90°	30.9	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°	4490.0	100.0
0°-180°	4490.0	100.0

Coefficient of Utilization



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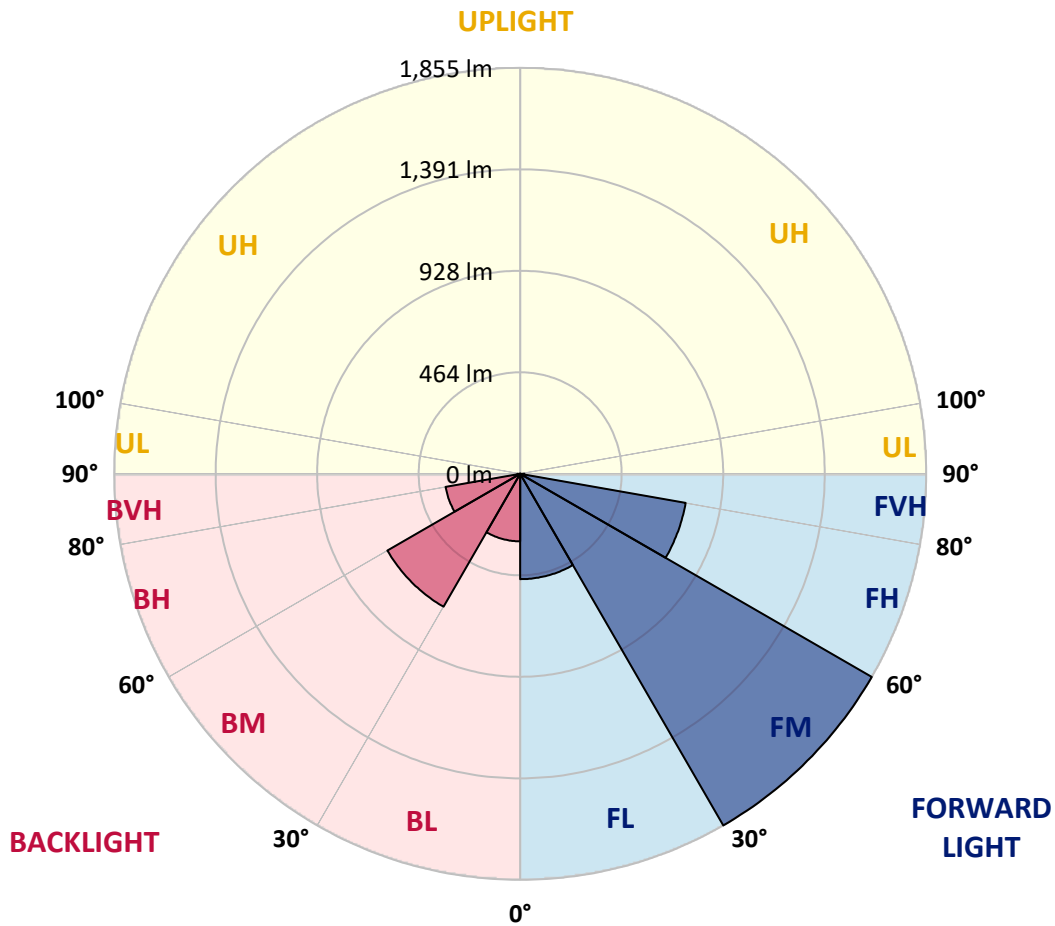
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.5	10.7			
FM (30°-60°)	1855.0	41.3			
FH (60°-80°)	767.5	17.1			G1/1800
FVH (80°-90°)	18.6	0.4			G1/100
BL (0°-30°)	308.4	6.9	B1/500		
BM (30°-60°)	700.7	15.6	B1/1000		
BH (60°-80°)	346.1	7.7	B1/500		G1/500
BVH (80°-90°)	12.3	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°	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4
2.5°	674.8	674.8	680.0	680.0	675.4	668.3	666.3	658.5	651.3	651.3	652.0
5°	739.3	738.7	742.6	737.4	726.3	711.9	702.2	685.2	670.9	666.3	665.6
7.5°	818.2	817.6	819.5	811.0	790.2	766.7	747.1	719.8	696.3	686.5	683.9
10°	906.2	905.6	903.6	889.3	861.2	824.7	795.4	757.6	722.4	706.7	703.5
12.5°	1007.3	1006.0	1001.4	980.5	942.1	895.1	852.8	803.9	756.9	735.4	728.2
15°	1120.1	1118.1	1109.6	1084.2	1032.7	973.4	918.6	856.0	798.6	770.6	760.8
17.5°	1238.7	1238.7	1225.7	1187.9	1130.5	1056.8	989.0	909.5	842.3	807.8	796.0
20°	1359.3	1358.7	1342.4	1296.7	1228.9	1144.2	1058.1	970.8	887.3	845.6	831.2
22.5°	1486.5	1485.2	1464.9	1412.8	1331.9	1236.1	1135.7	1031.4	936.9	886.7	868.4
25°	1632.5	1630.5	1605.8	1541.9	1446.0	1337.8	1223.1	1102.5	993.6	932.3	910.8
27.5°	1787.7	1785.1	1755.7	1681.4	1576.4	1446.0	1319.6	1184.6	1056.2	983.1	959.0
30°	1925.9	1923.9	1892.0	1815.7	1695.1	1553.6	1411.5	1266.7	1122.0	1037.3	1007.3
32.5°	2030.2	2030.2	2001.5	1926.5	1801.4	1656.6	1504.1	1344.3	1190.5	1095.3	1060.1
35°	2093.4	2095.4	2070.6	2010.6	1892.6	1753.8	1599.9	1435.6	1263.5	1157.2	1119.4
37.5°	2102.6	2109.1	2094.7	2054.3	1955.9	1834.6	1693.8	1523.6	1339.1	1219.8	1177.4
40°	2060.2	2064.7	2065.4	2049.7	1981.9	1892.6	1776.6	1616.8	1419.3	1285.7	1236.8
42.5°	1975.4	1978.7	1984.6	1989.1	1963.0	1918.1	1839.8	1703.6	1504.7	1352.8	1295.4
45°	1865.9	1865.2	1875.0	1894.6	1893.3	1903.7	1875.0	1782.4	1593.4	1429.1	1360.6
47.5°	1702.3	1699.0	1733.5	1777.9	1800.0	1848.9	1875.7	1844.4	1689.9	1513.2	1435.0
50°	1446.0	1442.8	1518.4	1622.7	1687.9	1762.2	1839.8	1881.5	1790.9	1607.7	1515.8
52.5°	1134.4	1131.1	1227.0	1409.5	1551.7	1659.9	1767.4	1890.0	1886.8	1713.3	1607.1
55°	843.6	841.0	934.3	1131.8	1361.9	1541.2	1678.8	1867.9	1976.7	1834.6	1717.9
57.5°	594.6	593.3	674.1	837.8	1118.1	1396.5	1593.4	1824.8	2059.5	1966.3	1843.1
60°	417.3	415.3	474.0	600.5	845.6	1178.1	1508.6	1767.4	2121.5	2096.0	1976.1
62.5°	281.0	279.7	321.4	427.0	600.5	906.9	1380.2	1729.0	2156.7	2226.4	2110.4
65°	213.2	212.5	231.4	289.5	425.1	651.3	1176.1	1724.4	2161.2	2324.2	2224.5
67.5°	172.1	172.8	183.2	216.4	294.0	462.9	912.1	1695.7	2137.1	2357.5	2279.9
70°	140.8	140.8	145.4	167.6	217.1	312.3	637.0	1565.3	2070.0	2270.8	2214.0
72.5°	107.6	108.2	122.6	135.6	163.6	219.1	408.1	1295.4	1911.5	2002.2	1959.1
75°	85.4	84.8	93.2	111.5	127.1	156.5	250.4	929.0	1626.6	1564.7	1537.3
77.5°	61.3	60.6	67.2	82.8	96.5	110.8	149.3	468.8	884.7	813.0	792.8
80°	41.7	40.4	46.3	57.4	63.9	65.2	73.0	179.9	386.0	363.8	359.2
82.5°	21.5	21.5	24.8	32.6	33.2	33.9	32.6	58.0	127.8	119.3	114.1
85°	8.5	8.5	9.1	11.1	11.1	11.7	11.7	15.0	13.7	13.0	12.4
87.5°	0.7	0.7	1.3	1.3	2.0	2.0	2.0	2.6	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4
2.5°	650.7	648.0	639.6	637.6	636.3	634.4	635.0	630.4	628.5	629.1	626.5
5°	662.4	657.8	647.4	642.8	641.5	639.6	641.5	638.3	635.0	636.3	635.0
7.5°	678.7	672.2	659.1	654.6	653.9	652.0	654.6	652.0	649.3	650.7	648.0
10°	695.6	687.2	672.8	668.3	668.3	667.6	670.2	666.3	663.7	664.3	663.0
12.5°	720.4	709.3	693.7	689.8	687.8	689.8	690.4	685.2	680.6	681.3	679.3
15°	750.4	738.0	721.1	715.2	713.9	713.2	710.6	704.1	698.2	697.6	695.6
17.5°	783.0	767.4	747.1	741.3	735.4	733.4	726.9	718.5	709.3	709.3	706.7
20°	814.3	796.7	772.6	764.1	755.6	747.8	736.7	723.0	711.3	709.3	706.7
22.5°	848.2	827.3	799.3	786.9	771.9	756.3	737.4	719.1	704.1	700.9	698.9
25°	886.0	859.9	826.7	808.4	784.3	760.2	732.1	708.7	691.1	685.9	684.6
27.5°	927.7	896.4	856.0	829.3	794.1	756.3	720.4	692.4	670.9	664.3	662.4
30°	970.1	932.9	882.7	843.6	794.1	743.9	698.9	666.3	641.5	632.4	631.1
32.5°	1012.5	970.8	906.9	851.5	786.3	723.0	670.9	632.4	604.4	593.3	595.9
35°	1063.3	1012.5	929.0	854.7	773.2	697.6	638.9	593.9	565.2	555.5	557.4
37.5°	1116.1	1054.2	946.6	852.1	755.0	668.9	603.1	559.4	523.5	506.6	508.5
40°	1161.8	1092.0	959.0	843.0	731.5	636.3	567.9	510.5	460.9	444.6	442.7
42.5°	1204.8	1120.1	965.5	829.3	704.8	598.5	517.7	444.0	394.4	374.2	374.9
45°	1249.8	1147.4	962.9	811.0	671.5	554.2	453.1	378.8	335.1	316.8	317.5
47.5°	1301.3	1176.8	960.3	791.5	631.1	496.8	391.2	321.4	283.6	270.6	269.3
50°	1356.1	1209.4	957.1	767.4	586.1	432.9	329.9	268.0	236.0	227.5	225.6
52.5°	1418.0	1244.6	955.1	738.7	532.0	365.1	275.1	221.0	199.5	193.6	193.0
55°	1492.3	1285.7	957.7	704.1	466.8	301.2	228.8	190.4	176.0	172.8	172.1
57.5°	1582.9	1338.5	965.5	663.7	398.3	245.8	194.9	171.5	162.3	159.7	159.7
60°	1681.4	1398.4	979.9	618.1	329.9	202.8	172.8	156.5	152.6	155.8	155.8
62.5°	1787.7	1468.9	1005.3	562.6	266.0	171.5	155.2	144.1	141.5	148.0	148.6
65°	1886.1	1537.3	1021.6	496.1	211.2	148.6	141.5	131.7	133.0	139.5	138.9
67.5°	1946.7	1594.0	998.8	412.7	167.6	131.7	127.1	118.7	121.9	127.1	127.8
70°	1909.6	1562.1	886.0	311.6	131.0	114.7	111.5	106.3	108.9	115.4	118.0
72.5°	1727.7	1399.1	689.1	210.6	105.6	96.5	97.8	95.2	98.4	104.3	110.2
75°	1402.4	1057.5	462.2	135.0	83.5	82.1	84.1	82.1	83.5	89.3	92.6
77.5°	732.1	515.7	230.1	84.1	61.9	63.9	67.2	67.8	71.7	73.0	74.3
80°	341.6	232.1	95.8	46.9	41.1	45.0	51.5	52.2	53.5	55.4	56.1
82.5°	111.5	69.8	44.3	25.4	23.5	25.4	33.2	39.8	40.4	44.3	44.3
85°	11.7	7.2	9.8	10.4	9.1	11.1	15.0	14.3	6.5	3.9	3.9
87.5°	3.3	2.6	3.3	3.3	2.6	2.6	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)