

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: P799539

Luminaire Tested: **ARCH2-30-740-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799539
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: ARCH2-30-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5388 lumens
Efficiency: N/A
Efficacy: 156.6 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



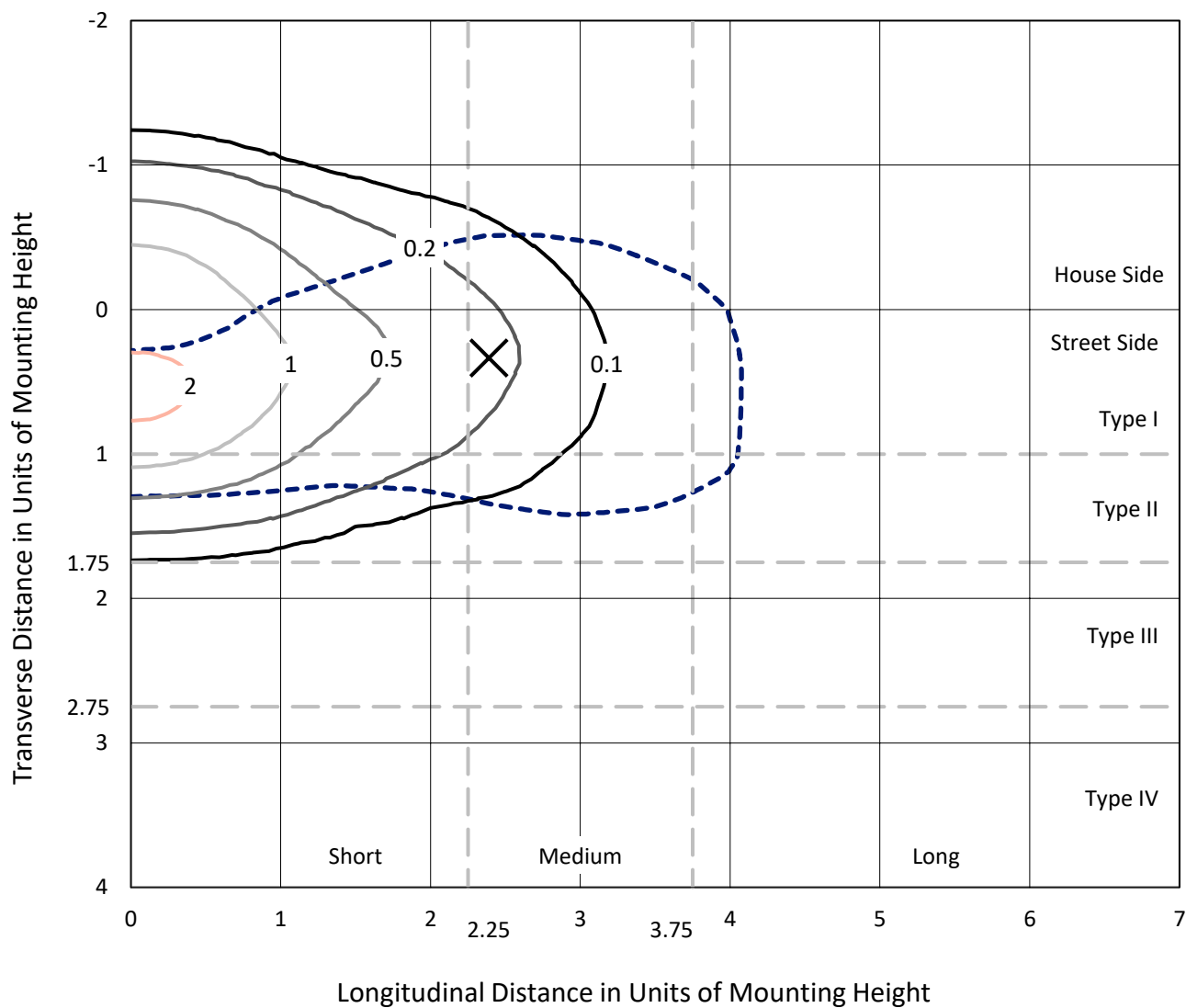
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

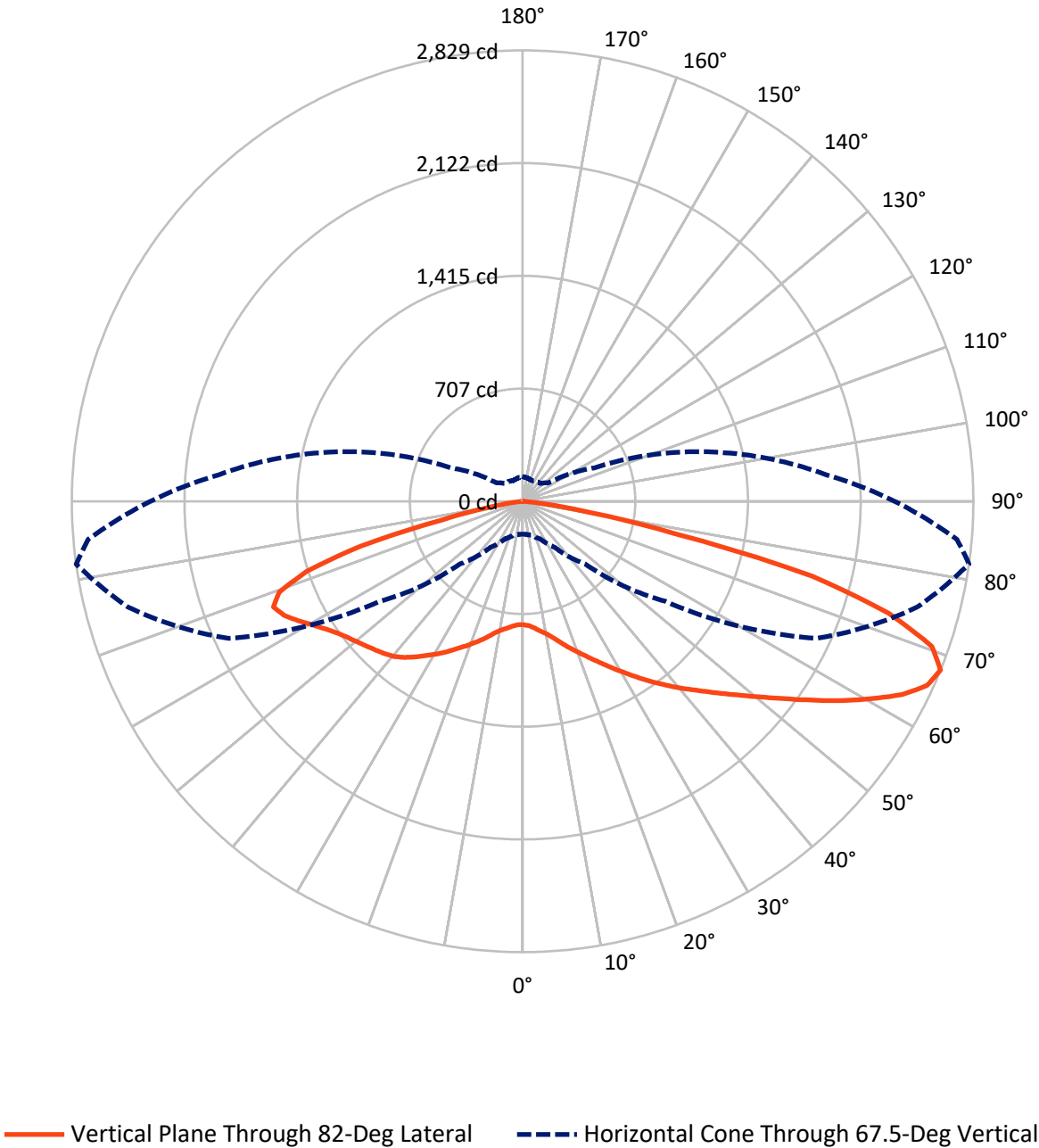
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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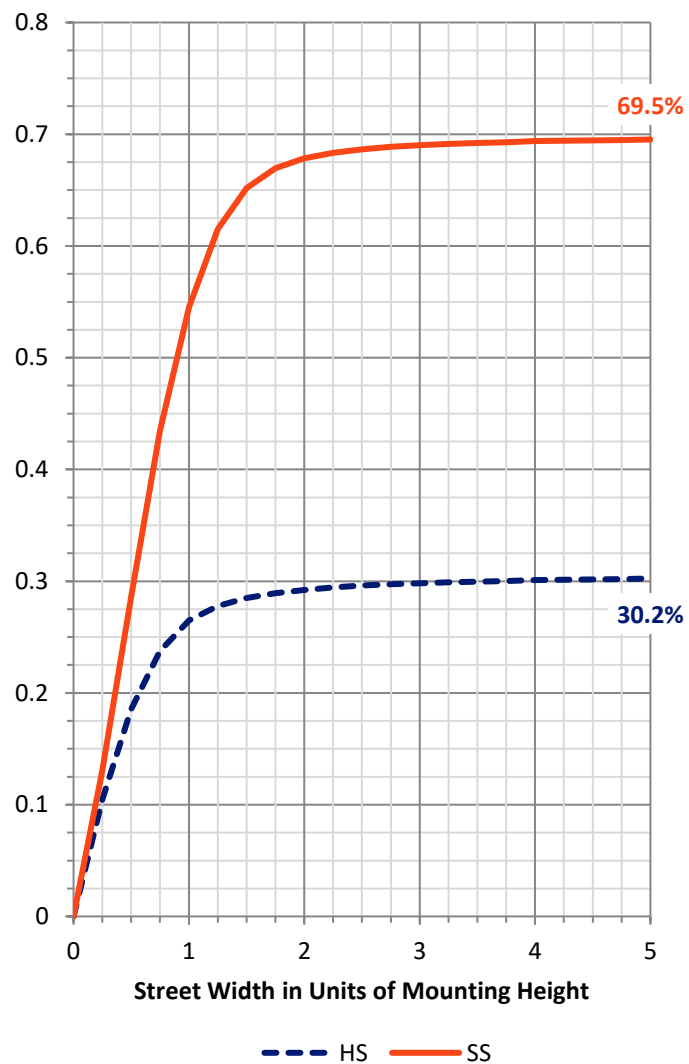
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.9	0.0	1640.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3747.1	0.0	3747.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	5388.0	0.0	5388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.5
10°-20°	288.3	5.4
20°-30°	579.5	10.8
30°-40°	910.2	16.9
40°-50°	1108.9	20.6
50°-60°	1047.7	19.4
60°-70°	865.2	16.1
70°-80°	471.1	8.7
80°-90°	37.0	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°	5388.0	100.0
0°-180°	5388.0	100.0

Coefficient of Utilization



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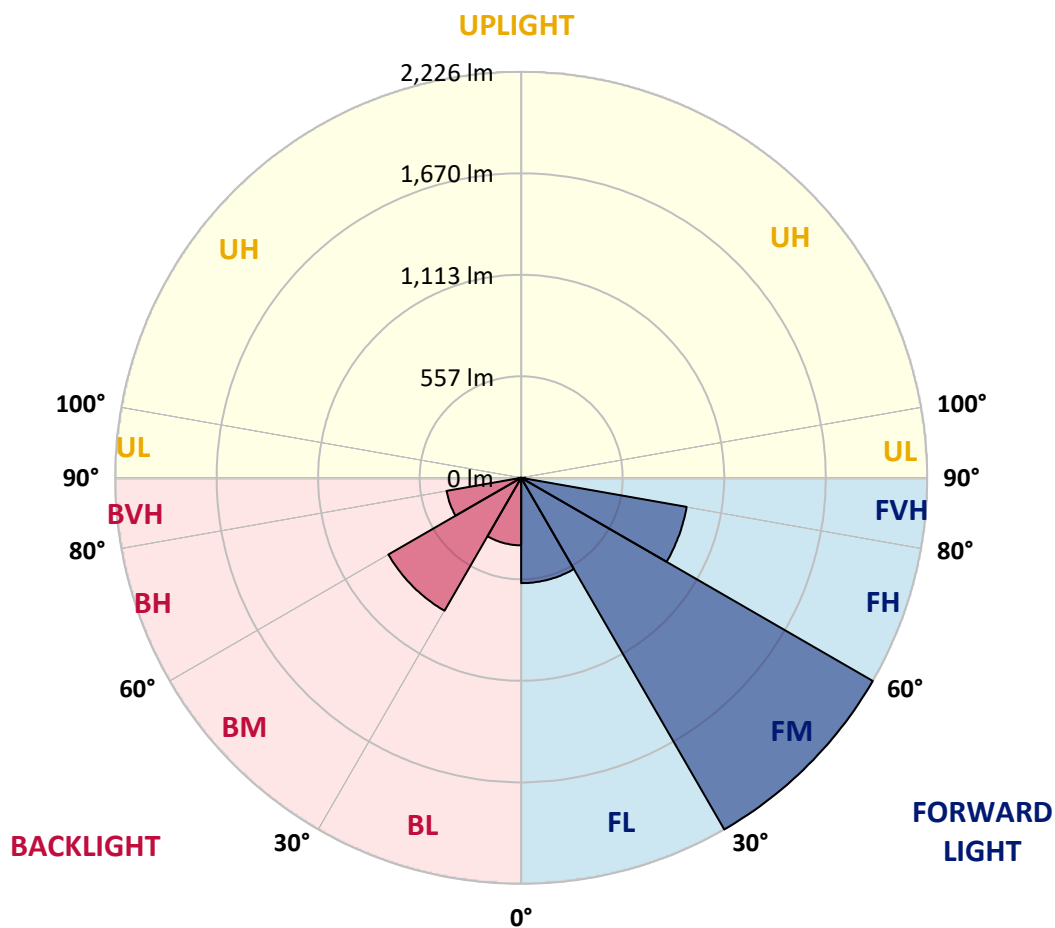
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	577.8	10.7			
FM	(30°-60°)	2226.0	41.3			
FH	(60°-80°)	921.0	17.1			G1/1800
FVH	(80°-90°)	22.3	0.4			G1/100
BL	(0°-30°)	370.0	6.9	B1/500		
BM	(30°-60°)	840.8	15.6	B1/1000		
BH	(60°-80°)	415.3	7.7	B1/500		G1/500
BVH	(80°-90°)	14.7	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°	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5
2.5°	809.7	809.7	816.0	816.0	810.5	801.9	799.6	790.2	781.6	781.6	782.3
5°	887.2	886.4	891.1	884.8	871.5	854.3	842.6	822.2	805.0	799.6	798.8
7.5°	981.8	981.1	983.4	973.2	948.2	920.0	896.6	863.7	835.5	823.8	820.7
10°	1087.5	1086.7	1084.3	1067.1	1033.5	989.7	954.5	909.1	866.8	848.1	844.2
12.5°	1208.7	1207.2	1201.7	1176.6	1130.5	1074.2	1023.3	964.6	908.3	882.5	873.9
15°	1344.1	1341.7	1331.6	1301.0	1239.2	1168.0	1102.3	1027.2	958.4	924.7	913.0
17.5°	1486.5	1486.5	1470.8	1425.4	1356.6	1268.2	1186.8	1091.4	1010.8	969.3	955.2
20°	1631.2	1630.4	1610.8	1556.1	1474.7	1373.0	1269.7	1164.9	1064.8	1014.7	997.5
22.5°	1783.7	1782.2	1757.9	1695.3	1598.3	1483.3	1362.8	1237.7	1124.2	1064.0	1042.1
25°	1959.0	1956.6	1926.9	1850.2	1735.2	1605.4	1467.7	1322.9	1192.3	1118.8	1092.9
27.5°	2145.2	2142.1	2106.9	2017.7	1891.7	1735.2	1583.5	1421.5	1267.4	1179.8	1150.8
30°	2311.0	2308.7	2270.4	2178.8	2034.1	1864.3	1693.8	1520.1	1346.4	1244.7	1208.7
32.5°	2436.2	2436.2	2401.8	2311.8	2161.6	1987.9	1804.9	1613.2	1428.6	1314.3	1272.1
35°	2512.1	2514.5	2484.7	2412.8	2271.1	2104.5	1919.9	1722.7	1516.2	1388.7	1343.3
37.5°	2523.1	2530.9	2513.7	2465.2	2347.0	2201.5	2032.5	1828.3	1606.9	1463.8	1412.9
40°	2472.2	2477.7	2478.5	2459.7	2378.3	2271.1	2131.9	1940.2	1703.2	1542.8	1484.1
42.5°	2370.5	2374.4	2381.5	2386.9	2355.6	2301.7	2207.8	2044.3	1805.7	1623.4	1554.5
45°	2239.1	2238.3	2250.0	2273.5	2271.9	2284.4	2250.0	2138.9	1912.1	1714.9	1632.8
47.5°	2042.7	2038.8	2080.3	2133.5	2160.1	2218.7	2250.8	2213.3	2027.8	1815.8	1721.9
50°	1735.2	1731.3	1822.1	1947.3	2025.5	2114.7	2207.8	2257.8	2149.1	1929.3	1819.0
52.5°	1361.3	1357.4	1472.4	1691.4	1862.0	1991.9	2120.9	2268.0	2264.1	2056.0	1928.5
55°	1012.4	1009.2	1121.1	1358.2	1634.3	1849.5	2014.5	2241.4	2372.1	2201.5	2061.5
57.5°	713.5	711.9	808.9	1005.3	1341.7	1675.8	1912.1	2189.8	2471.4	2359.6	2211.7
60°	500.7	498.4	568.8	720.5	1014.7	1413.7	1810.3	2120.9	2545.8	2515.2	2371.3
62.5°	337.2	335.6	385.7	512.4	720.5	1088.2	1656.2	2074.8	2588.0	2671.7	2532.5
65°	255.8	255.0	277.7	347.4	510.1	781.6	1411.4	2069.3	2593.5	2789.1	2669.4
67.5°	206.5	207.3	219.8	259.7	352.8	555.5	1094.5	2034.9	2564.5	2829.0	2735.9
70°	169.0	169.0	174.5	201.1	260.5	374.7	764.4	1878.4	2483.9	2724.9	2656.8
72.5°	129.1	129.9	147.1	162.7	196.4	262.9	489.7	1554.5	2293.8	2402.6	2350.9
75°	102.5	101.7	111.9	133.8	152.6	187.8	300.4	1114.8	1952.0	1877.6	1844.8
77.5°	73.5	72.8	80.6	99.4	115.8	133.0	179.2	562.5	1061.6	975.6	951.3
80°	50.1	48.5	55.5	68.8	76.7	78.2	87.6	215.9	463.1	436.5	431.1
82.5°	25.8	25.8	29.7	39.1	39.9	40.7	39.1	69.6	153.3	143.2	136.9
85°	10.2	10.2	11.0	13.3	13.3	14.1	14.1	18.0	16.4	15.6	14.9
87.5°	0.8	0.8	1.6	1.6	2.3	2.3	2.3	3.1	3.9	3.9	3.9
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°	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5	774.5
2.5°	780.8	777.7	767.5	765.1	763.6	761.2	762.0	756.5	754.2	755.0	751.8
5°	794.9	789.4	776.9	771.4	769.8	767.5	769.8	765.9	762.0	763.6	762.0
7.5°	814.4	806.6	791.0	785.5	784.7	782.3	785.5	782.3	779.2	780.8	777.7
10°	834.8	824.6	807.4	801.9	801.9	801.1	804.3	799.6	796.4	797.2	795.6
12.5°	864.5	851.2	832.4	827.7	825.4	827.7	828.5	822.2	816.8	817.6	815.2
15°	900.5	885.6	865.3	858.2	856.7	855.9	852.8	844.9	837.9	837.1	834.8
17.5°	939.6	920.8	896.6	889.5	882.5	880.1	872.3	862.1	851.2	851.2	848.1
20°	977.1	956.0	927.1	916.9	906.7	897.4	884.1	867.6	853.5	851.2	848.1
22.5°	1017.8	992.8	959.2	944.3	926.3	907.5	884.8	862.9	844.9	841.0	838.7
25°	1063.2	1031.9	992.0	970.1	941.2	912.2	878.6	850.4	829.3	823.0	821.5
27.5°	1113.3	1075.7	1027.2	995.1	952.9	907.5	864.5	830.9	805.0	797.2	794.9
30°	1164.1	1119.5	1059.3	1012.4	952.9	892.7	838.7	799.6	769.8	758.9	757.3
32.5°	1215.0	1164.9	1088.2	1021.7	943.5	867.6	805.0	758.9	725.2	711.9	715.1
35°	1276.0	1215.0	1114.8	1025.7	927.9	837.1	766.7	712.7	678.3	666.6	668.9
37.5°	1339.4	1265.1	1136.0	1022.5	906.0	802.7	723.7	671.3	628.2	607.9	610.2
40°	1394.1	1310.4	1150.8	1011.6	877.8	763.6	681.4	612.6	553.1	533.6	531.2
42.5°	1445.8	1344.1	1158.7	995.1	845.7	718.2	621.2	532.8	473.3	449.1	449.8
45°	1499.8	1376.9	1155.5	973.2	805.8	665.0	543.7	454.5	402.1	380.2	381.0
47.5°	1561.6	1412.1	1152.4	949.8	757.3	596.1	469.4	385.7	340.3	324.7	323.1
50°	1627.3	1451.3	1148.5	920.8	703.3	519.5	395.9	321.5	283.2	273.0	270.7
52.5°	1701.6	1493.5	1146.1	886.4	638.4	438.1	330.1	265.2	239.4	232.4	231.6
55°	1790.8	1542.8	1149.3	844.9	560.2	361.4	274.6	228.4	211.2	207.3	206.5
57.5°	1899.5	1606.2	1158.7	796.4	478.0	294.9	233.9	205.8	194.8	191.7	191.7
60°	2017.7	1678.1	1175.9	741.7	395.9	243.3	207.3	187.8	183.1	187.0	187.0
62.5°	2145.2	1762.6	1206.4	675.2	319.2	205.8	186.2	172.9	169.8	177.6	178.4
65°	2263.3	1844.8	1225.9	595.4	253.5	178.4	169.8	158.0	159.6	167.4	166.6
67.5°	2336.1	1912.8	1198.6	495.2	201.1	158.0	152.6	142.4	146.3	152.6	153.3
70°	2291.5	1874.5	1063.2	374.0	157.3	137.7	133.8	127.5	130.7	138.5	141.6
72.5°	2073.2	1678.9	826.9	252.7	126.7	115.8	117.4	114.2	118.1	125.2	132.2
75°	1682.8	1269.0	554.7	161.9	100.1	98.6	100.9	98.6	100.1	107.2	111.1
77.5°	878.6	618.8	276.2	100.9	74.3	76.7	80.6	81.4	86.1	87.6	89.2
80°	409.9	278.5	115.0	56.3	49.3	54.0	61.8	62.6	64.2	66.5	67.3
82.5°	133.8	83.7	53.2	30.5	28.2	30.5	39.9	47.7	48.5	53.2	53.2
85°	14.1	8.6	11.7	12.5	11.0	13.3	18.0	17.2	7.8	4.7	4.7
87.5°	3.9	3.1	3.9	3.9	3.1	3.1	2.3	0.8	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)