

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: P799603

Luminaire Tested: **ARCH2-40-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799603
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: ARCH2-40-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5656 lumens
Efficiency: N/A
Efficacy: 128.3 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

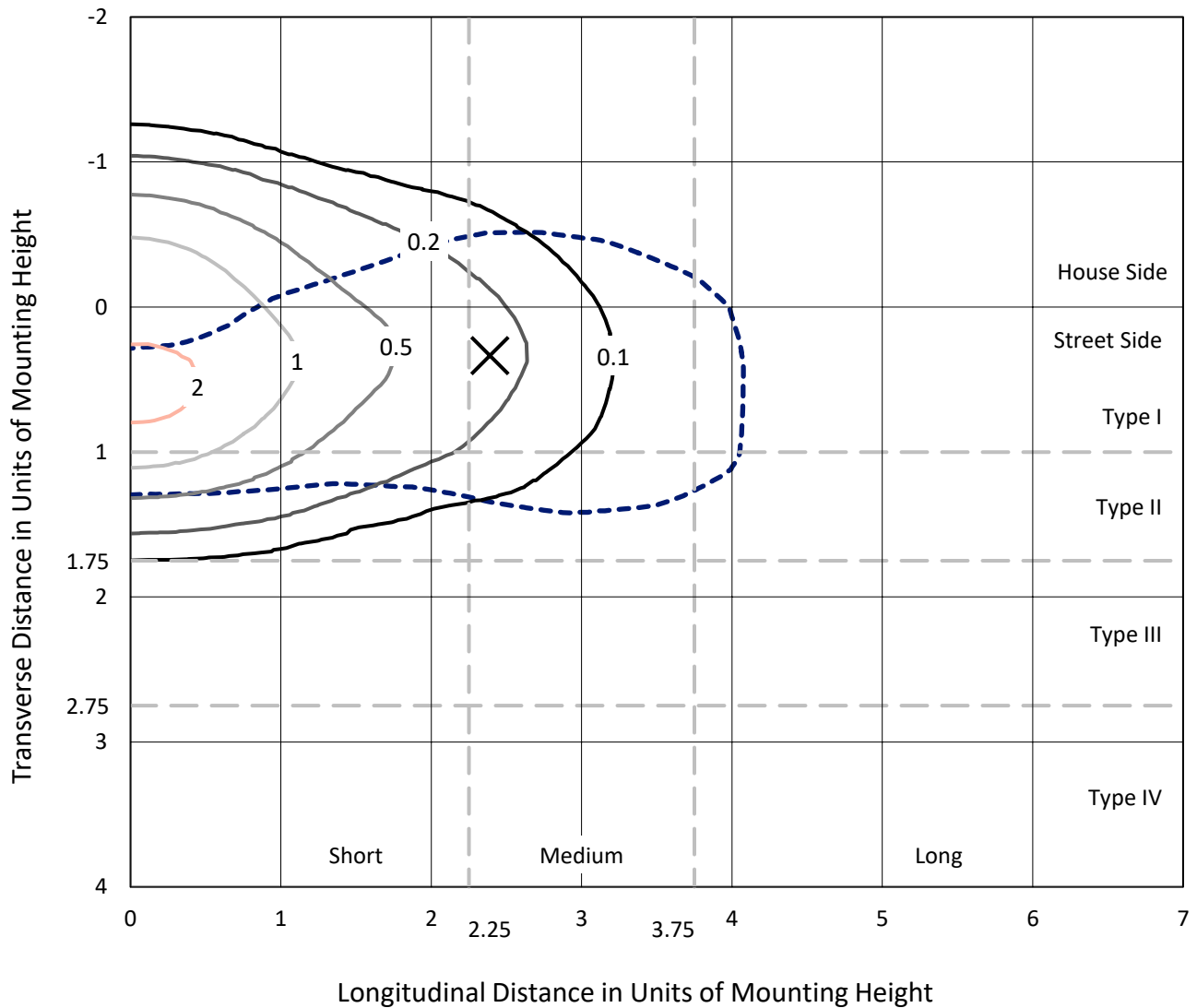
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

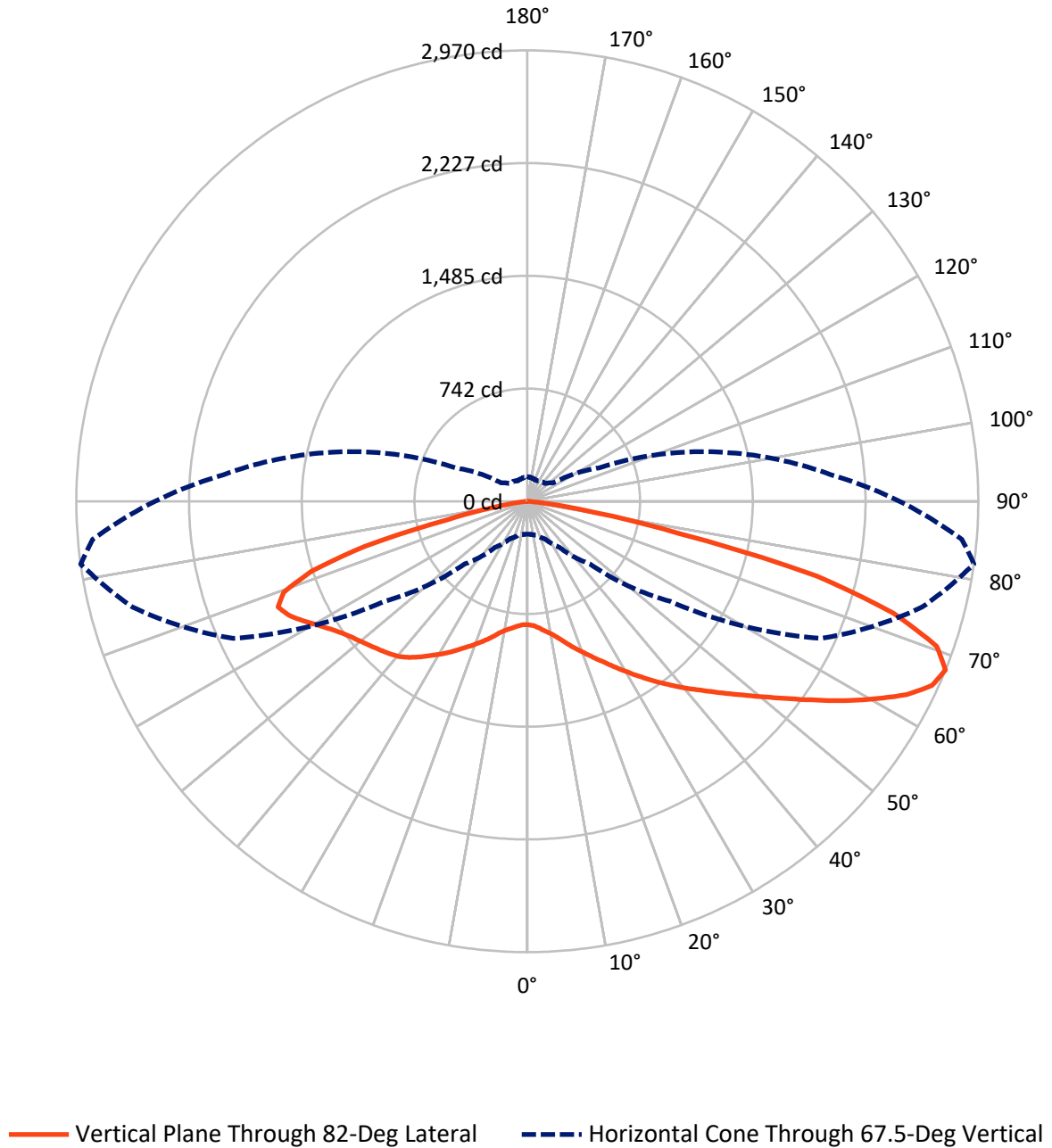
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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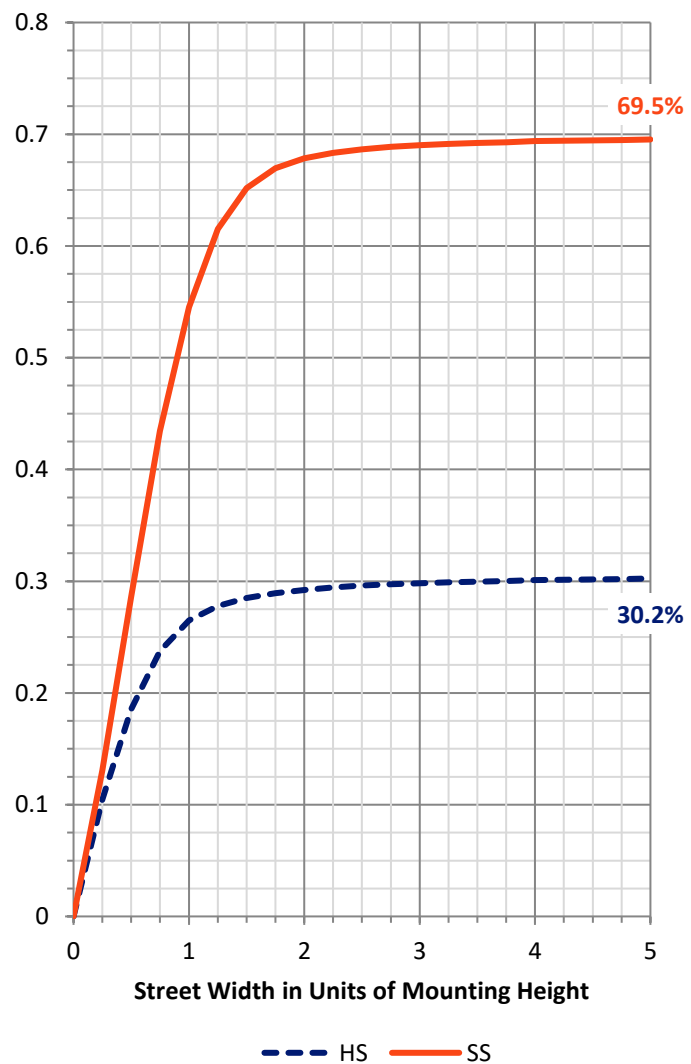
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.5	0.0	1722.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3933.5	0.0	3933.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	5656.0	0.0	5656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.5
10°-20°	302.7	5.4
20°-30°	608.3	10.8
30°-40°	955.5	16.9
40°-50°	1164.0	20.6
50°-60°	1099.8	19.4
60°-70°	908.2	16.1
70°-80°	494.6	8.7
80°-90°	38.9	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°	5656.0	100.0
0°-180°	5656.0	100.0

Coefficient of Utilization



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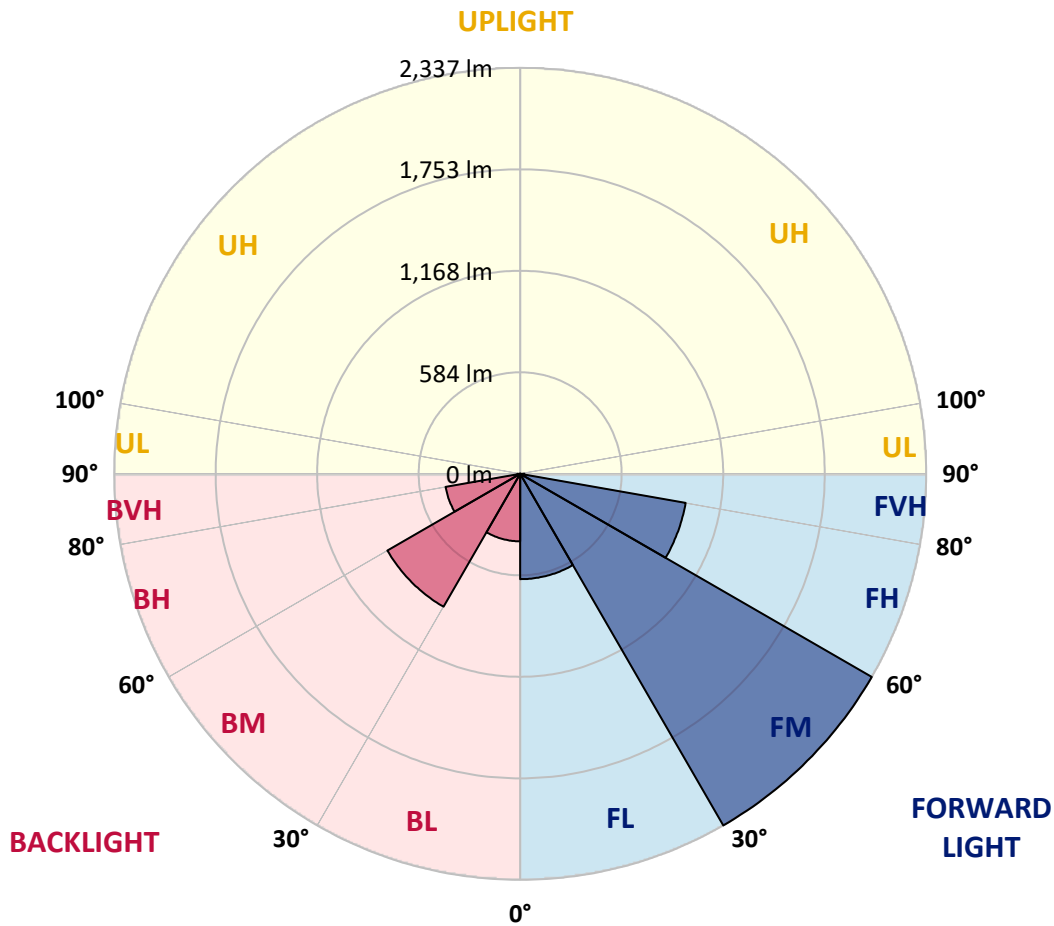
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.5	10.7			
FM (30°-60°)	2336.7	41.3			
FH (60°-80°)	966.8	17.1			G1/1800
FVH (80°-90°)	23.4	0.4			G1/100
BL (0°-30°)	388.4	6.9	B1/500		
BM (30°-60°)	882.6	15.6	B1/1000		
BH (60°-80°)	436.0	7.7	B1/500		G1/500
BVH (80°-90°)	15.4	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°	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0
2.5°	850.0	850.0	856.6	856.6	850.8	841.8	839.3	829.5	820.4	820.4	821.3
5°	931.3	930.5	935.4	928.8	914.9	896.8	884.5	863.1	845.1	839.3	838.5
7.5°	1030.7	1029.9	1032.3	1021.6	995.4	965.8	941.2	906.7	877.1	864.8	861.5
10°	1141.6	1140.7	1138.3	1120.2	1084.9	1038.9	1001.9	954.3	910.0	890.2	886.1
12.5°	1268.8	1267.2	1261.5	1235.2	1186.7	1127.6	1074.2	1012.6	953.5	926.4	917.3
15°	1410.9	1408.5	1397.8	1365.8	1300.9	1226.1	1157.2	1078.3	1006.0	970.7	958.4
17.5°	1560.4	1560.4	1544.0	1496.3	1424.1	1331.3	1245.9	1145.7	1061.1	1017.5	1002.8
20°	1712.3	1711.5	1691.0	1633.5	1548.1	1441.3	1332.9	1222.9	1117.7	1065.2	1047.1
22.5°	1872.5	1870.8	1845.4	1779.7	1677.8	1557.1	1430.6	1299.2	1180.2	1116.9	1093.9
25°	2056.4	2054.0	2022.8	1942.3	1821.6	1685.2	1540.7	1388.8	1251.6	1174.4	1147.3
27.5°	2251.9	2248.6	2211.7	2118.0	1985.8	1821.6	1662.2	1492.2	1330.4	1238.5	1208.1
30°	2426.0	2423.5	2383.3	2287.2	2135.3	1957.1	1778.0	1595.7	1413.4	1306.6	1268.8
32.5°	2557.4	2557.4	2521.3	2426.8	2269.1	2086.8	1894.6	1693.4	1499.6	1379.7	1335.4
35°	2637.1	2639.5	2608.3	2532.8	2384.1	2209.2	2015.4	1808.4	1591.6	1457.7	1410.1
37.5°	2648.6	2656.8	2638.7	2587.8	2463.8	2311.0	2133.6	1919.3	1686.9	1536.6	1483.2
40°	2595.2	2600.9	2601.8	2582.0	2496.6	2384.1	2237.9	2036.7	1787.9	1619.5	1557.9
42.5°	2488.4	2492.5	2499.9	2505.7	2472.8	2416.1	2317.6	2146.0	1895.5	1704.1	1631.8
45°	2350.4	2349.6	2361.9	2386.6	2384.9	2398.1	2361.9	2245.3	2007.2	1800.2	1714.0
47.5°	2144.3	2140.2	2183.7	2239.6	2267.5	2329.1	2362.8	2323.3	2128.7	1906.1	1807.6
50°	1821.6	1817.4	1912.7	2044.1	2126.2	2219.9	2317.6	2370.2	2256.0	2025.2	1909.4
52.5°	1429.0	1424.9	1545.6	1775.6	1954.6	2090.9	2226.4	2380.8	2376.7	2158.3	2024.4
55°	1062.7	1059.4	1176.9	1425.7	1715.6	1941.5	2114.7	2352.9	2490.1	2311.0	2164.0
57.5°	749.0	747.3	849.2	1055.3	1408.5	1759.1	2007.2	2298.7	2594.4	2476.9	2321.7
60°	525.6	523.1	597.1	756.4	1065.2	1484.0	1900.4	2226.4	2672.4	2640.3	2489.2
62.5°	354.0	352.3	404.9	537.9	756.4	1142.4	1738.6	2178.0	2716.7	2804.6	2658.4
65°	268.6	267.7	291.5	364.6	535.5	820.4	1481.6	2172.2	2722.5	2927.8	2802.1
67.5°	216.8	217.6	230.8	272.7	370.4	583.1	1148.9	2136.1	2692.1	2969.7	2871.9
70°	177.4	177.4	183.1	211.1	273.5	393.4	802.4	1971.8	2607.5	2860.4	2789.0
72.5°	135.5	136.3	154.4	170.8	206.1	275.9	514.1	1631.8	2407.9	2522.1	2467.9
75°	107.6	106.8	117.4	140.4	160.1	197.1	315.4	1170.3	2049.0	1971.0	1936.5
77.5°	77.2	76.4	84.6	104.3	121.5	139.6	188.1	590.5	1114.4	1024.1	998.7
80°	52.6	50.9	58.3	72.3	80.5	82.1	92.0	226.7	486.2	458.3	452.5
82.5°	27.1	27.1	31.2	41.1	41.9	42.7	41.1	73.1	161.0	150.3	143.7
85°	10.7	10.7	11.5	14.0	14.0	14.8	14.8	18.9	17.2	16.4	15.6
87.5°	0.8	0.8	1.6	1.6	2.5	2.5	2.5	3.3	4.1	4.1	4.1
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°	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0	813.0
2.5°	819.6	816.3	805.7	803.2	801.5	799.1	799.9	794.2	791.7	792.5	789.2
5°	834.4	828.7	815.5	809.8	808.1	805.7	808.1	804.0	799.9	801.5	799.9
7.5°	854.9	846.7	830.3	824.5	823.7	821.3	824.5	821.3	818.0	819.6	816.3
10°	876.3	865.6	847.5	841.8	841.8	841.0	844.3	839.3	836.0	836.9	835.2
12.5°	907.5	893.5	873.8	868.9	866.4	868.9	869.7	863.1	857.4	858.2	855.8
15°	945.3	929.7	908.3	900.9	899.3	898.5	895.2	887.0	879.6	878.7	876.3
17.5°	986.3	966.6	941.2	933.8	926.4	923.9	915.7	905.0	893.5	893.5	890.2
20°	1025.8	1003.6	973.2	962.5	951.8	942.0	928.0	910.8	896.0	893.5	890.2
22.5°	1068.5	1042.2	1006.9	991.3	972.4	952.7	928.8	905.8	887.0	882.9	880.4
25°	1116.1	1083.2	1041.4	1018.4	988.0	957.6	922.3	892.7	870.5	864.0	862.3
27.5°	1168.7	1129.2	1078.3	1044.6	1000.3	952.7	907.5	872.2	845.1	836.9	834.4
30°	1222.0	1175.2	1112.0	1062.7	1000.3	937.1	880.4	839.3	808.1	796.6	795.0
32.5°	1275.4	1222.9	1142.4	1072.6	990.4	910.8	845.1	796.6	761.3	747.3	750.6
35°	1339.5	1275.4	1170.3	1076.7	974.0	878.7	804.8	748.2	712.0	699.7	702.2
37.5°	1406.0	1328.0	1192.5	1073.4	951.0	842.6	759.7	704.6	659.5	638.1	640.6
40°	1463.5	1375.6	1208.1	1061.9	921.5	801.5	715.3	643.0	580.6	560.1	557.6
42.5°	1517.7	1410.9	1216.3	1044.6	887.8	753.9	652.1	559.3	496.9	471.4	472.2
45°	1574.4	1445.4	1213.0	1021.6	845.9	698.1	570.8	477.2	422.1	399.1	400.0
47.5°	1639.2	1482.4	1209.7	997.0	795.0	625.8	492.8	404.9	357.2	340.8	339.2
50°	1708.2	1523.4	1205.6	966.6	738.3	545.3	415.6	337.5	297.3	286.6	284.2
52.5°	1786.2	1567.8	1203.1	930.5	670.1	459.9	346.6	278.4	251.3	243.9	243.1
55°	1879.9	1619.5	1206.4	887.0	588.0	379.4	288.3	239.8	221.7	217.6	216.8
57.5°	1994.0	1686.0	1216.3	836.0	501.8	309.6	245.6	216.0	204.5	201.2	201.2
60°	2118.0	1761.6	1234.4	778.6	415.6	255.4	217.6	197.1	192.2	196.3	196.3
62.5°	2251.9	1850.3	1266.4	708.7	335.1	216.0	195.5	181.5	178.2	186.4	187.2
65°	2375.9	1936.5	1286.9	625.0	266.1	187.2	178.2	165.9	167.5	175.7	174.9
67.5°	2452.3	2008.0	1258.2	519.9	211.1	165.9	160.1	149.5	153.6	160.1	161.0
70°	2405.5	1967.7	1116.1	392.6	165.1	144.5	140.4	133.9	137.2	145.4	148.6
72.5°	2176.3	1762.4	868.1	265.3	133.0	121.5	123.2	119.9	124.0	131.4	138.8
75°	1766.5	1332.1	582.3	170.0	105.1	103.5	105.9	103.5	105.1	112.5	116.6
77.5°	922.3	649.6	289.9	105.9	78.0	80.5	84.6	85.4	90.3	92.0	93.6
80°	430.3	292.4	120.7	59.1	51.7	56.7	64.9	65.7	67.3	69.8	70.6
82.5°	140.4	87.9	55.8	32.0	29.6	32.0	41.9	50.1	50.9	55.8	55.8
85°	14.8	9.0	12.3	13.1	11.5	14.0	18.9	18.1	8.2	4.9	4.9
87.5°	4.1	3.3	4.1	4.1	3.3	3.3	2.5	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)