

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: P799091

Luminaire Tested: **ARCH1-60-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799091
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: ARCH1-60-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6221 lumens
Efficiency: N/A
Efficacy: 103.7 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

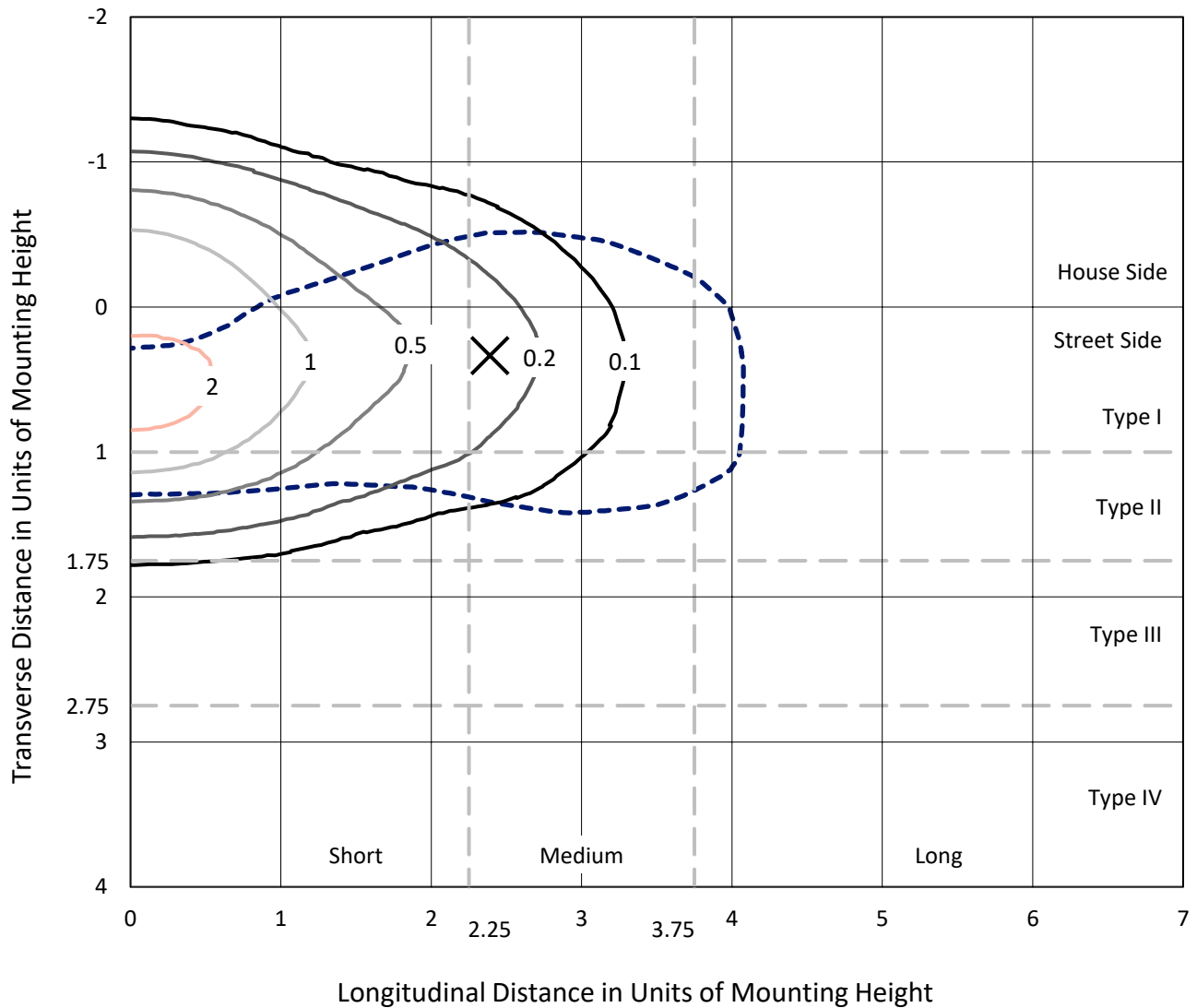
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

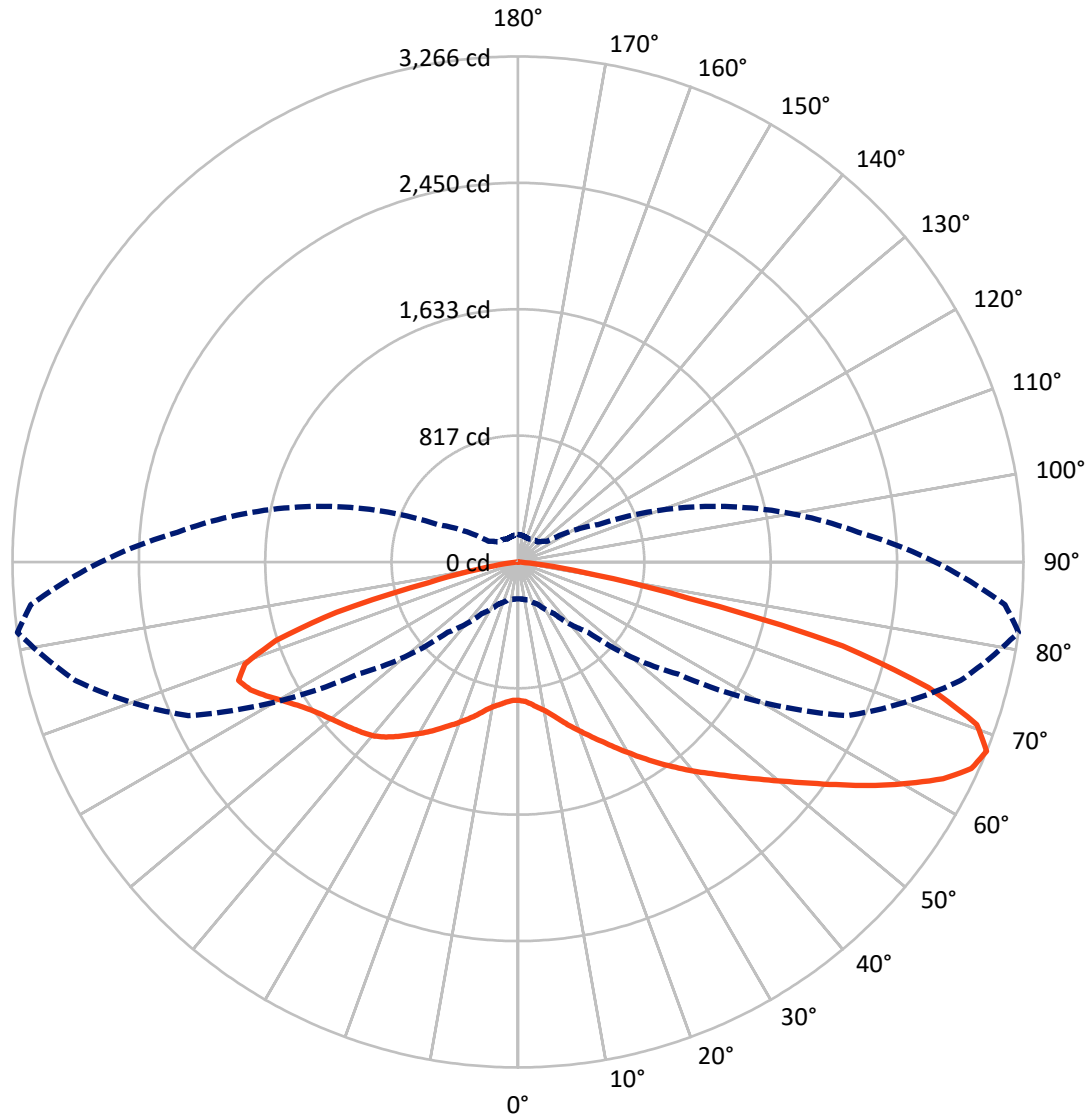
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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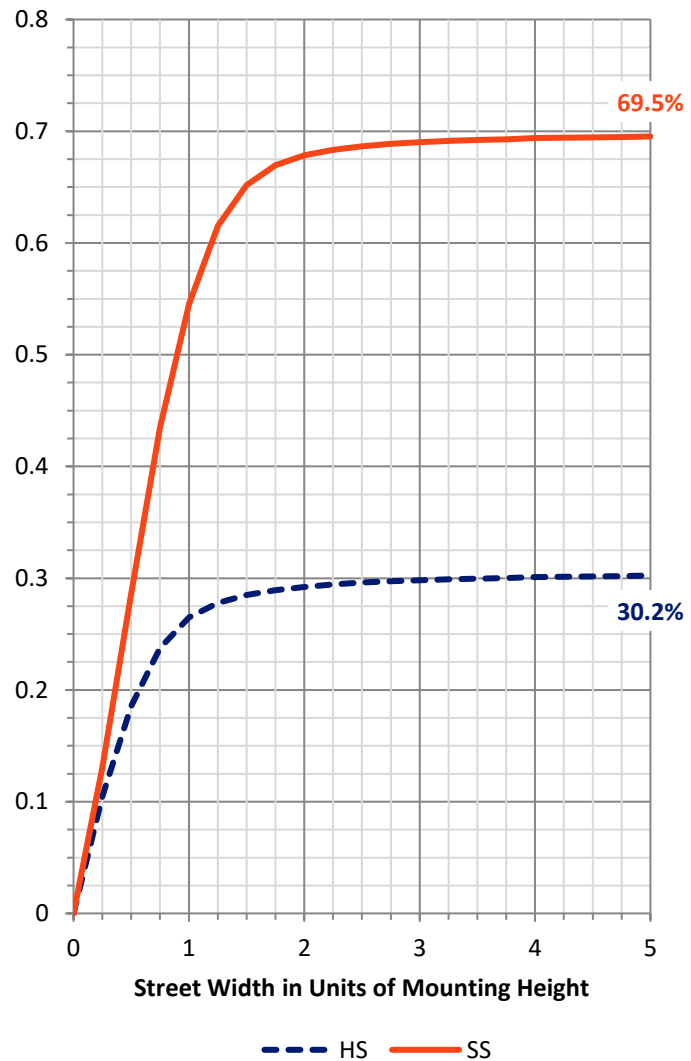
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.6	0.0	1894.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4326.5	0.0	4326.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	6221.0	0.0	6221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.5
10°-20°	332.9	5.4
20°-30°	669.0	10.8
30°-40°	1051.0	16.9
40°-50°	1280.3	20.6
50°-60°	1209.7	19.4
60°-70°	998.9	16.1
70°-80°	544.0	8.7
80°-90°	42.8	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°	6221.0	100.0
0°-180°	6221.0	100.0

Coefficient of Utilization



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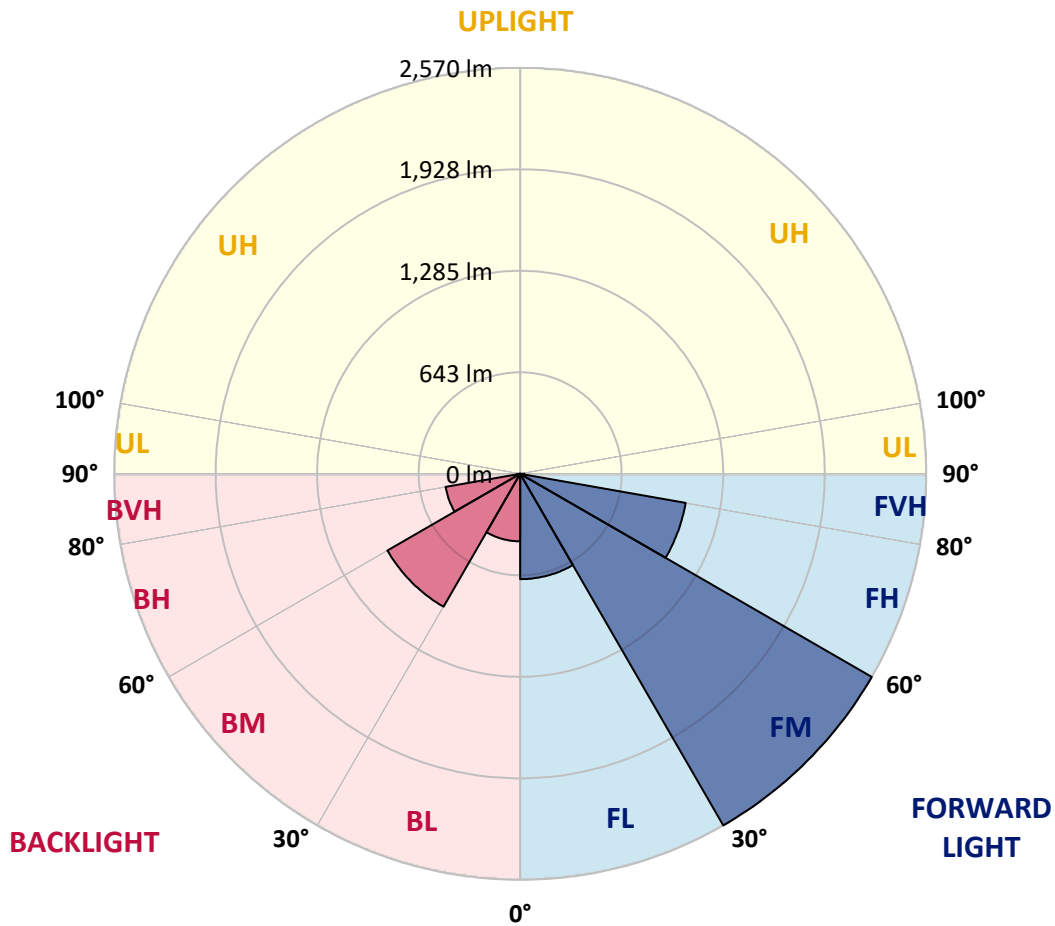
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.1	10.7			
FM (30°-60°)	2570.2	41.3			
FH (60°-80°)	1063.4	17.1			G1/1800
FVH (80°-90°)	25.8	0.4			G1/100
BL (0°-30°)	427.2	6.9	B1/500		
BM (30°-60°)	970.8	15.6	B1/1000		
BH (60°-80°)	479.5	7.7	B1/500		G1/500
BVH (80°-90°)	17.0	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°	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3
2.5°	934.9	934.9	942.1	942.1	935.8	925.9	923.2	912.3	902.4	902.4	903.3
5°	1024.3	1023.4	1028.9	1021.6	1006.3	986.4	972.9	949.4	929.5	923.2	922.3
7.5°	1133.6	1132.7	1135.4	1123.7	1094.8	1062.3	1035.2	997.2	964.7	951.2	947.6
10°	1255.6	1254.7	1252.0	1232.1	1193.3	1142.7	1102.0	1049.6	1000.9	979.2	974.7
12.5°	1395.6	1393.8	1387.5	1358.6	1305.3	1240.2	1181.5	1113.8	1048.7	1018.9	1009.0
15°	1551.9	1549.2	1537.4	1502.2	1430.8	1348.6	1272.7	1186.0	1106.5	1067.7	1054.1
17.5°	1716.3	1716.3	1698.2	1645.8	1566.3	1464.2	1370.3	1260.1	1167.1	1119.2	1102.9
20°	1883.4	1882.5	1859.9	1796.7	1702.7	1585.3	1466.1	1345.0	1229.4	1171.6	1151.7
22.5°	2059.5	2057.7	2029.7	1957.4	1845.4	1712.7	1573.5	1429.0	1298.0	1228.5	1203.2
25°	2261.9	2259.1	2224.8	2136.3	2003.5	1853.6	1694.6	1527.5	1376.6	1291.7	1261.9
27.5°	2476.8	2473.2	2432.6	2329.6	2184.2	2003.5	1828.3	1641.3	1463.3	1362.2	1328.8
30°	2668.3	2665.6	2621.4	2515.7	2348.6	2152.6	1955.6	1755.1	1554.6	1437.1	1395.6
32.5°	2812.9	2812.9	2773.1	2669.2	2495.8	2295.3	2083.9	1862.6	1649.4	1517.5	1468.8
35°	2900.5	2903.2	2868.9	2785.8	2622.3	2429.9	2216.7	1989.1	1750.6	1603.4	1551.0
37.5°	2913.1	2922.2	2902.3	2846.3	2709.9	2541.9	2346.8	2111.0	1855.4	1690.1	1631.4
40°	2854.4	2860.7	2861.6	2840.0	2746.0	2622.3	2461.5	2240.2	1966.5	1781.3	1713.6
42.5°	2737.0	2741.5	2749.6	2756.0	2719.8	2657.5	2549.1	2360.3	2084.8	1874.3	1794.9
45°	2585.2	2584.3	2597.9	2625.0	2623.2	2637.6	2597.9	2469.6	2207.7	1980.0	1885.2
47.5°	2358.5	2354.0	2401.9	2463.3	2494.0	2561.8	2598.8	2555.4	2341.3	2096.6	1988.2
50°	2003.5	1999.0	2103.8	2248.3	2338.6	2441.6	2549.1	2606.9	2481.4	2227.5	2100.2
52.5°	1571.7	1567.2	1700.0	1952.9	2149.9	2299.8	2448.8	2618.7	2614.1	2373.9	2226.6
55°	1168.9	1165.3	1294.4	1568.1	1887.0	2135.4	2326.0	2588.0	2738.8	2541.9	2380.2
57.5°	823.8	822.0	934.0	1160.7	1549.2	1934.9	2207.7	2528.3	2853.5	2724.3	2553.6
60°	578.1	575.4	656.7	831.9	1171.6	1632.3	2090.2	2448.8	2939.3	2904.1	2737.9
62.5°	389.3	387.5	445.3	591.7	831.9	1256.5	1912.3	2395.5	2988.1	3084.8	2924.0
65°	295.4	294.5	320.7	401.1	589.0	902.4	1629.6	2389.2	2994.4	3220.3	3082.1
67.5°	238.5	239.4	253.8	299.9	407.4	641.3	1263.7	2349.5	2961.0	3266.3	3158.8
70°	195.1	195.1	201.4	232.1	300.8	432.7	882.5	2168.8	2868.0	3146.2	3067.6
72.5°	149.0	149.9	169.8	187.9	226.7	303.5	565.5	1794.9	2648.5	2774.0	2714.4
75°	118.3	117.4	129.2	154.5	176.1	216.8	346.9	1287.2	2253.7	2167.9	2130.0
77.5°	84.9	84.0	93.0	114.7	133.7	153.6	206.9	649.5	1225.8	1126.4	1098.4
80°	57.8	56.0	64.1	79.5	88.5	90.3	101.2	249.3	534.8	504.0	497.7
82.5°	29.8	29.8	34.3	45.2	46.1	47.0	45.2	80.4	177.0	165.3	158.1
85°	11.7	11.7	12.6	15.4	15.4	16.3	16.3	20.8	19.0	18.1	17.2
87.5°	0.9	0.9	1.8	1.8	2.7	2.7	2.7	3.6	4.5	4.5	4.5
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°	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3	894.3
2.5°	901.5	897.9	886.1	883.4	881.6	878.9	879.8	873.5	870.8	871.7	868.1
5°	917.8	911.4	897.0	890.7	888.8	886.1	888.8	884.3	879.8	881.6	879.8
7.5°	940.3	931.3	913.2	906.9	906.0	903.3	906.9	903.3	899.7	901.5	897.9
10°	963.8	952.1	932.2	925.9	925.9	925.0	928.6	923.2	919.6	920.5	918.7
12.5°	998.1	982.8	961.1	955.7	953.0	955.7	956.6	949.4	943.0	943.9	941.2
15°	1039.7	1022.5	999.0	990.9	989.1	988.2	984.6	975.6	967.4	966.5	963.8
17.5°	1084.9	1063.2	1035.2	1027.1	1018.9	1016.2	1007.2	995.4	982.8	982.8	979.2
20°	1128.2	1103.8	1070.4	1058.7	1046.9	1036.1	1020.7	1001.8	985.5	982.8	979.2
22.5°	1175.2	1146.3	1107.4	1090.3	1069.5	1047.8	1021.6	996.3	975.6	971.0	968.3
25°	1227.6	1191.5	1145.4	1120.1	1086.7	1053.2	1014.4	981.9	957.5	950.3	948.5
27.5°	1285.4	1242.0	1186.0	1149.0	1100.2	1047.8	998.1	959.3	929.5	920.5	917.8
30°	1344.1	1292.6	1223.1	1168.9	1100.2	1030.7	968.3	923.2	888.8	876.2	874.4
32.5°	1402.8	1345.0	1256.5	1179.7	1089.4	1001.8	929.5	876.2	837.4	822.0	825.6
35°	1473.3	1402.8	1287.2	1184.2	1071.3	966.5	885.2	822.9	783.2	769.6	772.3
37.5°	1546.4	1460.6	1311.6	1180.6	1046.0	926.8	835.6	775.0	725.3	701.9	704.6
40°	1609.7	1513.0	1328.8	1168.0	1013.5	881.6	786.8	707.3	638.6	616.0	613.3
42.5°	1669.3	1551.9	1337.8	1149.0	976.5	829.2	717.2	615.1	546.5	518.5	519.4
45°	1731.6	1589.8	1334.2	1123.7	930.4	767.8	627.8	524.8	464.3	439.0	439.9
47.5°	1803.0	1630.5	1330.6	1096.6	874.4	688.3	542.0	445.3	392.9	374.9	373.1
50°	1878.9	1675.6	1326.0	1063.2	812.1	599.8	457.1	371.3	327.0	315.3	312.5
52.5°	1964.7	1724.4	1323.3	1023.4	737.1	505.8	381.2	306.2	276.4	268.3	267.4
55°	2067.7	1781.3	1326.9	975.6	646.8	417.3	317.1	263.8	243.9	239.4	238.5
57.5°	2193.2	1854.5	1337.8	919.6	551.9	340.5	270.1	237.6	224.9	221.3	221.3
60°	2329.6	1937.6	1357.7	856.3	457.1	280.9	239.4	216.8	211.4	215.9	215.9
62.5°	2476.8	2035.1	1392.9	779.5	368.5	237.6	215.0	199.6	196.0	205.0	206.0
65°	2613.2	2130.0	1415.5	687.4	292.7	206.0	196.0	182.5	184.3	193.3	192.4
67.5°	2697.2	2208.6	1383.9	571.8	232.1	182.5	176.1	164.4	168.9	176.1	177.0
70°	2645.8	2164.3	1227.6	431.8	181.6	159.0	154.5	147.2	150.9	159.9	163.5
72.5°	2393.7	1938.5	954.8	291.8	146.3	133.7	135.5	131.9	136.4	144.5	152.7
75°	1943.0	1465.2	640.4	187.0	115.6	113.8	116.5	113.8	115.6	123.8	128.3
77.5°	1014.4	714.5	318.9	116.5	85.8	88.5	93.0	93.9	99.4	101.2	103.0
80°	473.3	321.6	132.8	65.0	56.9	62.3	71.4	72.3	74.1	76.8	77.7
82.5°	154.5	96.7	61.4	35.2	32.5	35.2	46.1	55.1	56.0	61.4	61.4
85°	16.3	9.9	13.5	14.5	12.6	15.4	20.8	19.9	9.0	5.4	5.4
87.5°	4.5	3.6	4.5	4.5	3.6	3.6	2.7	0.9	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)