

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: P799619

Luminaire Tested: **ARCH2-40-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799619
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: ARCH2-40-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6238 lumens
Efficiency: N/A
Efficacy: 141.5 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

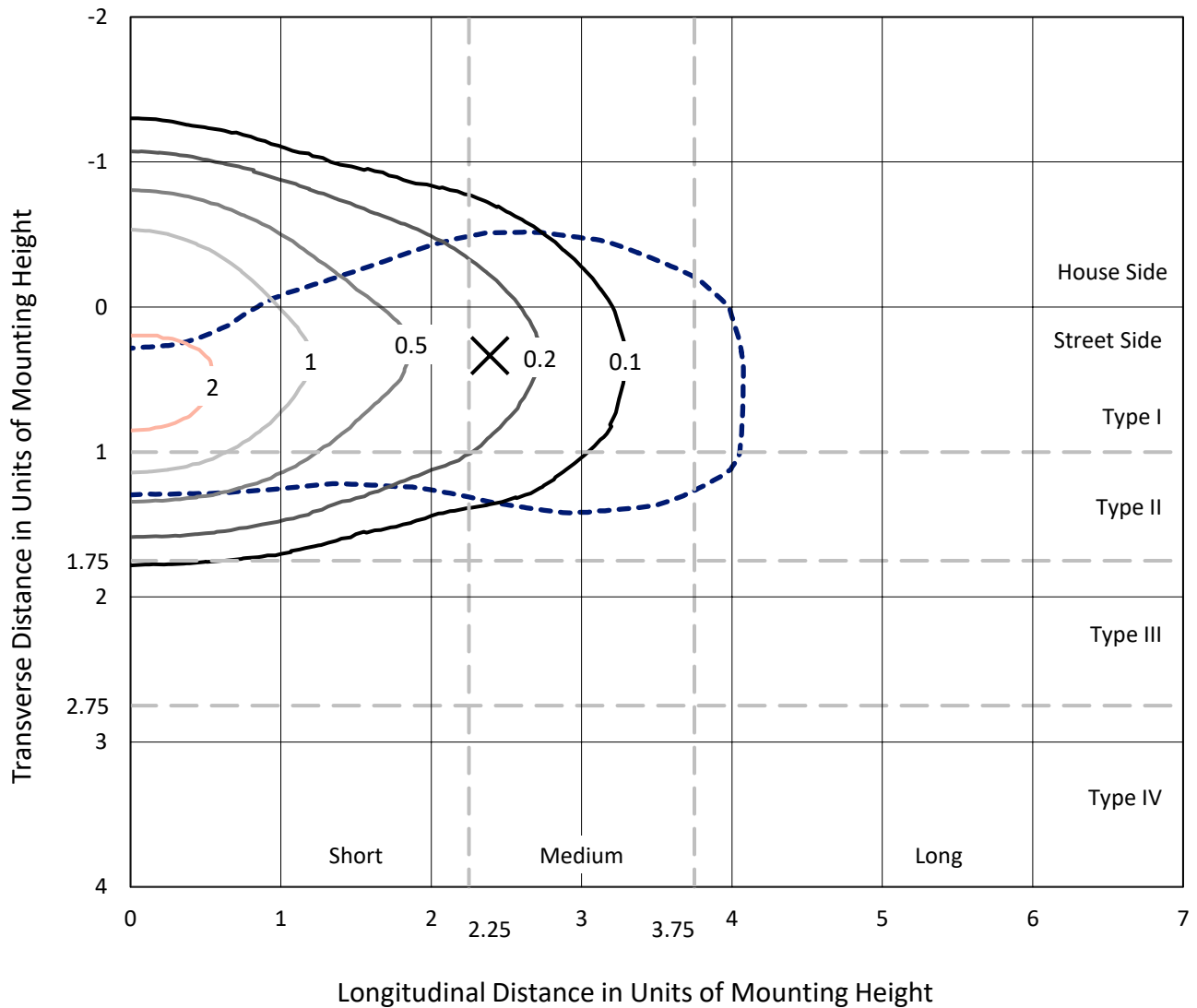
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

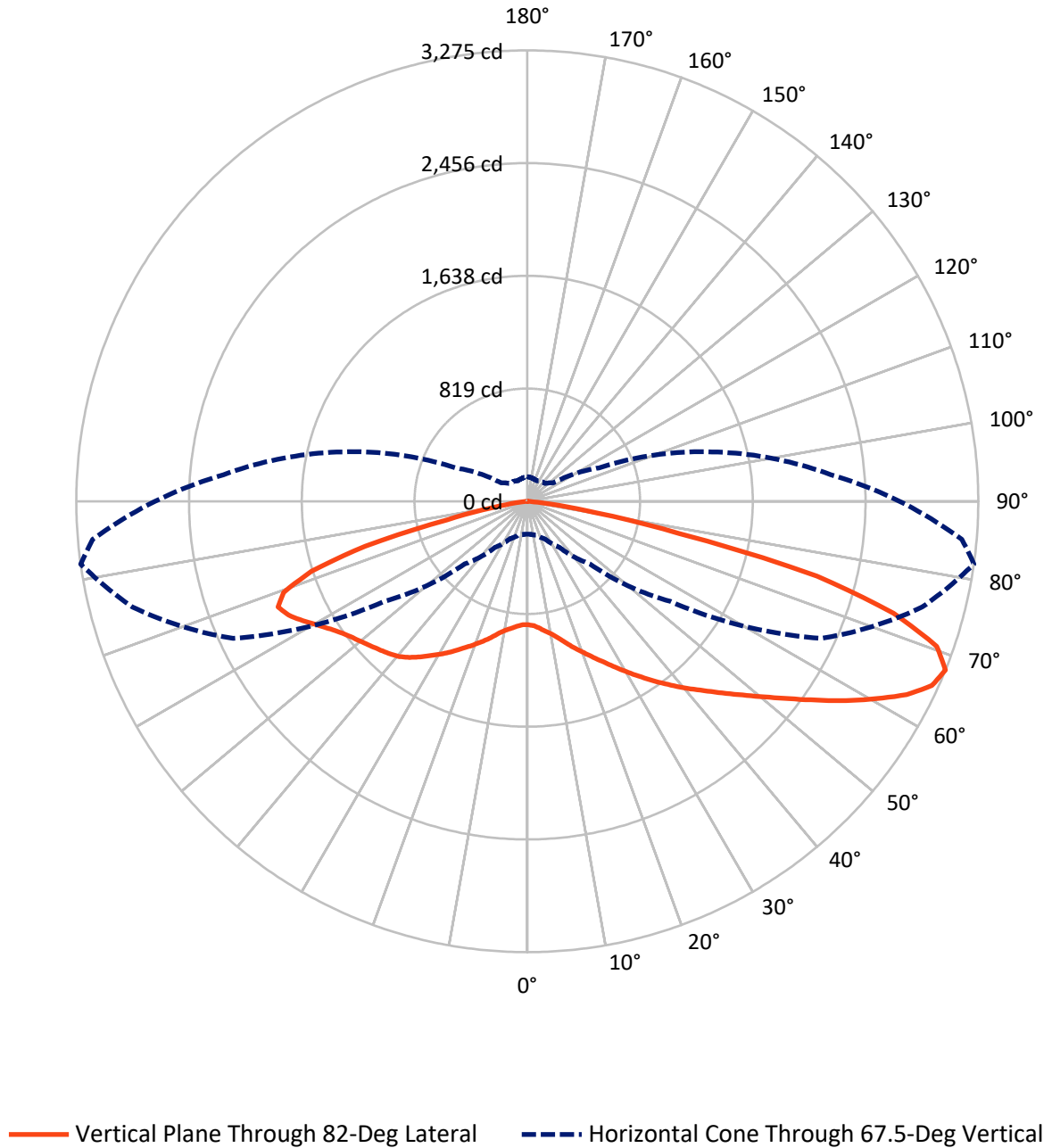
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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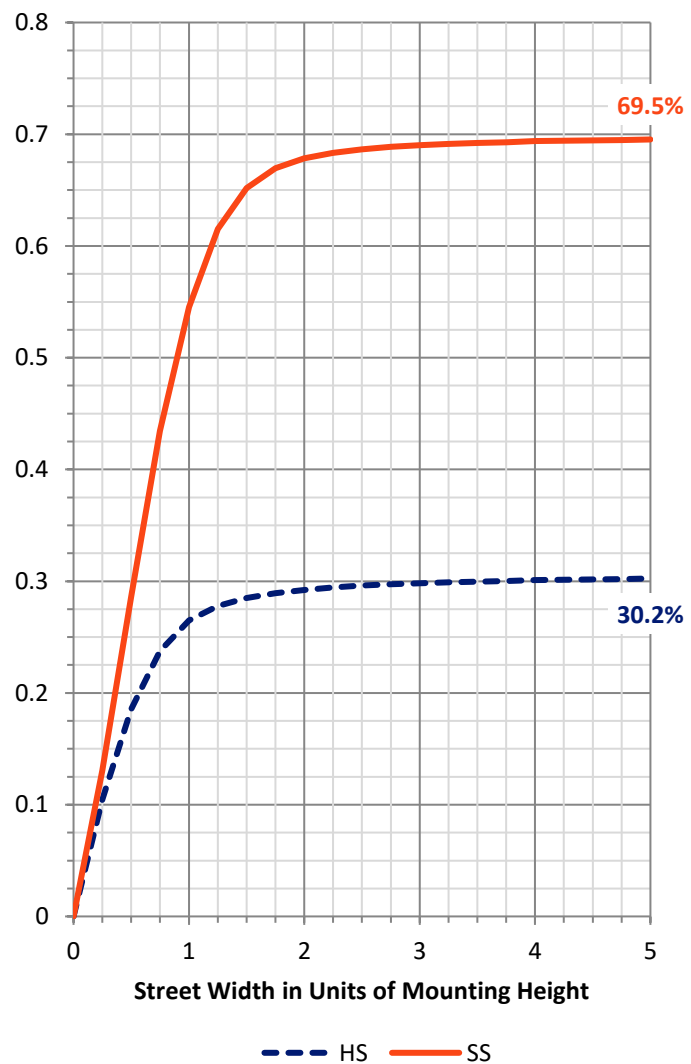
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1899.7	0.0	1899.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4338.3	0.0	4338.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	6238.0	0.0	6238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	1.5
10°-20°	333.8	5.4
20°-30°	670.9	10.8
30°-40°	1053.8	16.9
40°-50°	1283.8	20.6
50°-60°	1213.0	19.4
60°-70°	1001.7	16.1
70°-80°	545.5	8.7
80°-90°	42.9	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°	6238.0	100.0
0°-180°	6238.0	100.0

Coefficient of Utilization



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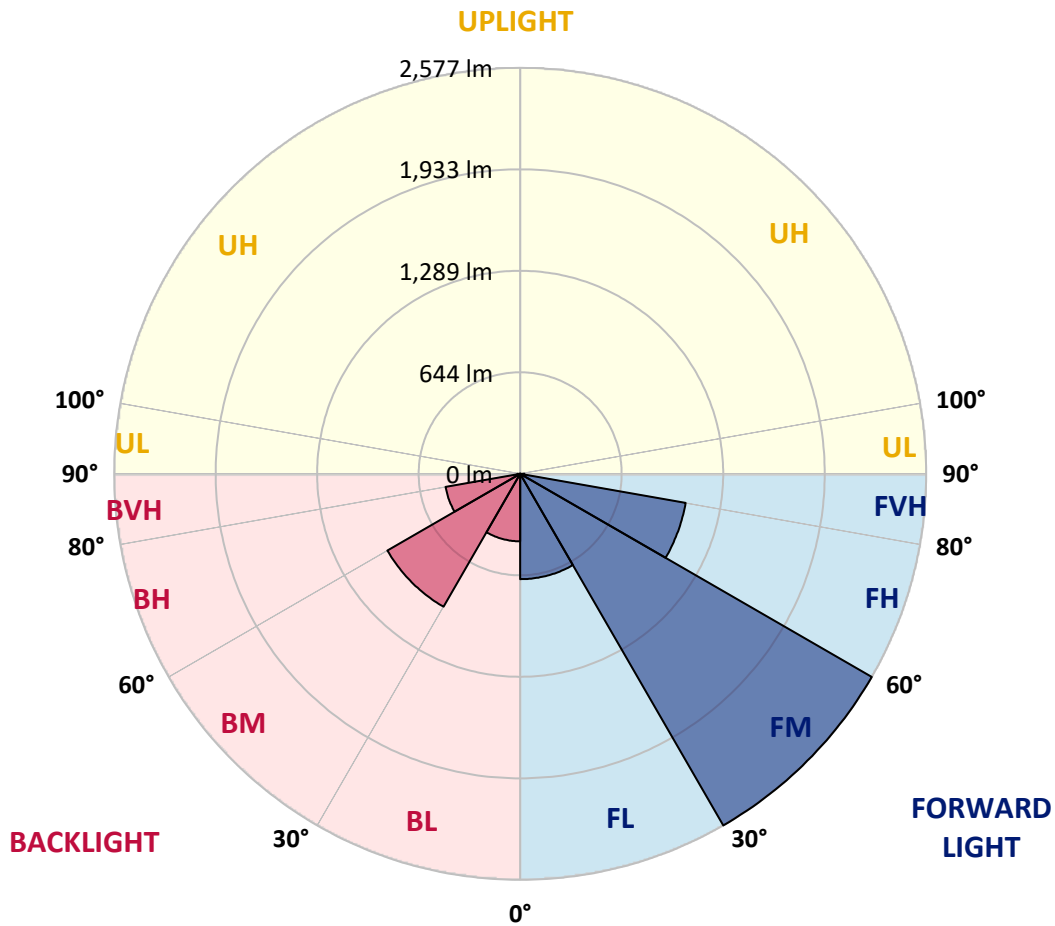
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.9	10.7			
FM (30°-60°)	2577.2	41.3			
FH (60°-80°)	1066.3	17.1			G1/1800
FVH (80°-90°)	25.8	0.4			G1/100
BL (0°-30°)	428.4	6.9	B1/500		
BM (30°-60°)	973.5	15.6	B1/1000		
BH (60°-80°)	480.8	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°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	937.5	937.5	944.7	944.7	938.4	928.4	925.7	914.8	904.9	904.9	905.8
5°	1027.1	1026.2	1031.7	1024.4	1009.0	989.1	975.5	952.0	932.0	925.7	924.8
7.5°	1136.7	1135.8	1138.5	1126.8	1097.8	1065.2	1038.0	1000.0	967.4	953.8	950.1
10°	1259.0	1258.1	1255.4	1235.5	1196.5	1145.8	1105.0	1052.5	1003.6	981.9	977.3
12.5°	1399.4	1397.6	1391.3	1362.3	1308.8	1243.6	1184.7	1116.8	1051.6	1021.7	1011.7
15°	1556.1	1553.4	1541.6	1506.3	1434.7	1352.3	1276.2	1189.3	1109.6	1070.6	1057.0
17.5°	1721.0	1721.0	1702.8	1650.3	1570.6	1468.2	1374.0	1263.5	1170.3	1122.2	1105.9
20°	1888.5	1887.6	1865.0	1801.6	1707.4	1589.6	1470.1	1348.7	1232.7	1174.8	1154.9
22.5°	2065.1	2063.3	2035.3	1962.8	1850.5	1717.3	1577.8	1432.9	1301.6	1231.8	1206.5
25°	2268.0	2265.3	2230.9	2142.1	2009.0	1858.6	1699.2	1531.7	1380.4	1295.2	1265.4
27.5°	2483.6	2480.0	2439.2	2336.0	2190.1	2009.0	1833.3	1645.8	1467.3	1365.9	1332.4
30°	2675.6	2672.9	2628.5	2522.6	2355.0	2158.4	1961.0	1759.9	1558.8	1441.1	1399.4
32.5°	2820.6	2820.6	2780.7	2676.5	2502.6	2301.6	2089.6	1867.7	1653.9	1521.7	1472.8
35°	2908.4	2911.1	2876.7	2793.4	2629.4	2436.5	2222.8	1994.5	1755.4	1607.7	1555.2
37.5°	2921.1	2930.2	2910.2	2854.1	2717.3	2548.8	2353.2	2116.8	1860.4	1694.7	1635.8
40°	2862.2	2868.6	2869.5	2847.7	2753.5	2629.4	2468.2	2246.3	1971.9	1786.2	1718.2
42.5°	2744.5	2749.0	2757.2	2763.5	2727.3	2664.8	2556.1	2366.8	2090.5	1879.5	1799.8
45°	2592.3	2591.4	2605.0	2632.2	2630.3	2644.8	2605.0	2476.4	2213.7	1985.4	1890.3
47.5°	2365.0	2360.4	2408.4	2470.0	2500.8	2568.8	2605.9	2562.4	2347.7	2102.3	1993.6
50°	2009.0	2004.5	2109.5	2254.5	2345.0	2448.3	2556.1	2614.0	2488.1	2233.6	2105.9
52.5°	1576.0	1571.5	1704.7	1958.3	2155.7	2306.1	2455.5	2625.8	2621.3	2380.4	2232.7
55°	1172.1	1168.4	1298.0	1572.4	1892.1	2141.2	2332.3	2595.0	2746.3	2548.8	2386.7
57.5°	826.1	824.2	936.6	1163.9	1553.4	1940.2	2213.7	2535.2	2861.3	2731.8	2560.6
60°	579.7	577.0	658.5	834.2	1174.8	1636.7	2095.9	2455.5	2947.4	2912.0	2745.4
62.5°	390.4	388.6	446.5	593.3	834.2	1259.9	1917.5	2402.1	2996.3	3093.2	2932.0
65°	296.2	295.3	321.5	402.2	590.6	904.9	1634.0	2395.8	3002.6	3229.1	3090.5
67.5°	239.1	240.0	254.5	300.7	408.5	643.1	1267.2	2355.9	2969.1	3275.3	3167.5
70°	195.6	195.6	202.0	232.8	301.6	433.9	884.9	2174.7	2875.8	3154.8	3076.0
72.5°	149.5	150.4	170.3	188.4	227.3	304.3	567.0	1799.8	2655.7	2781.6	2721.8
75°	118.7	117.7	129.5	154.9	176.6	217.4	347.8	1290.7	2259.9	2173.8	2135.8
77.5°	85.1	84.2	93.3	115.0	134.1	154.0	207.4	651.2	1229.1	1129.5	1101.4
80°	58.0	56.2	64.3	79.7	88.8	90.6	101.4	250.0	536.2	505.4	499.1
82.5°	29.9	29.9	34.4	45.3	46.2	47.1	45.3	80.6	177.5	165.8	158.5
85°	11.8	11.8	12.7	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°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	904.0	900.3	888.6	885.8	884.0	881.3	882.2	875.9	873.2	874.1	870.4
5°	920.3	913.9	899.4	893.1	891.3	888.6	891.3	886.7	882.2	884.0	882.2
7.5°	942.9	933.8	915.7	909.4	908.5	905.8	909.4	905.8	902.1	904.0	900.3
10°	966.5	954.7	934.8	928.4	928.4	927.5	931.1	925.7	922.1	923.0	921.2
12.5°	1000.9	985.5	963.7	958.3	955.6	958.3	959.2	952.0	945.6	946.5	943.8
15°	1042.5	1025.3	1001.8	993.6	991.8	990.9	987.3	978.2	970.1	969.2	966.5
17.5°	1087.8	1066.1	1038.0	1029.9	1021.7	1019.0	1009.9	998.2	985.5	985.5	981.9
20°	1131.3	1106.8	1073.3	1061.6	1049.8	1038.9	1023.5	1004.5	988.2	985.5	981.9
22.5°	1178.4	1149.4	1110.5	1093.3	1072.4	1050.7	1024.4	999.1	978.2	973.7	971.0
25°	1230.9	1194.7	1148.5	1123.2	1089.6	1056.1	1017.2	984.6	960.1	952.9	951.1
27.5°	1288.9	1245.4	1189.3	1152.1	1103.2	1050.7	1000.9	961.9	932.0	923.0	920.3
30°	1347.8	1296.2	1226.4	1172.1	1103.2	1033.5	971.0	925.7	891.3	878.6	876.8
32.5°	1406.7	1348.7	1259.9	1182.9	1092.4	1004.5	932.0	878.6	839.6	824.2	827.9
35°	1477.3	1406.7	1290.7	1187.5	1074.2	969.2	887.7	825.2	785.3	771.7	774.4
37.5°	1550.7	1464.6	1315.2	1183.8	1048.9	929.3	837.8	777.1	727.3	703.8	706.5
40°	1614.1	1517.2	1332.4	1171.2	1016.3	884.0	788.9	709.2	640.4	617.7	615.0
42.5°	1673.9	1556.1	1341.4	1152.1	979.1	831.5	719.2	616.8	548.0	519.9	520.8
45°	1736.4	1594.1	1337.8	1126.8	932.9	769.9	629.5	526.3	465.6	440.2	441.1
47.5°	1807.9	1634.9	1334.2	1099.6	876.8	690.2	543.5	446.5	394.0	375.9	374.1
50°	1884.0	1680.2	1329.7	1066.1	814.3	601.4	458.3	372.3	327.9	316.1	313.4
52.5°	1970.0	1729.1	1326.9	1026.2	739.1	507.2	382.2	307.1	277.2	269.0	268.1
55°	2073.3	1786.2	1330.6	978.2	648.5	418.5	317.9	264.5	244.6	240.0	239.1
57.5°	2199.2	1859.5	1341.4	922.1	553.4	341.5	270.8	238.2	225.5	221.9	221.9
60°	2336.0	1942.9	1361.4	858.7	458.3	281.7	240.0	217.4	211.9	216.5	216.5
62.5°	2483.6	2040.7	1396.7	781.7	369.6	238.2	215.6	200.2	196.6	205.6	206.5
65°	2620.4	2135.8	1419.3	689.3	293.5	206.5	196.6	183.0	184.8	193.8	192.9
67.5°	2704.6	2214.6	1387.6	573.4	232.8	183.0	176.6	164.8	169.4	176.6	177.5
70°	2653.0	2170.2	1230.9	433.0	182.1	159.4	154.9	147.6	151.3	160.3	163.9
72.5°	2400.3	1943.8	957.4	292.6	146.7	134.1	135.9	132.2	136.8	144.9	153.1
75°	1948.3	1469.2	642.2	187.5	115.9	114.1	116.8	114.1	115.9	124.1	128.6
77.5°	1017.2	716.5	319.7	116.8	86.0	88.8	93.3	94.2	99.6	101.4	103.3
80°	474.6	322.5	133.1	65.2	57.1	62.5	71.6	72.5	74.3	77.0	77.9
82.5°	154.9	96.9	61.6	35.3	32.6	35.3	46.2	55.3	56.2	61.6	61.6
85°	16.3	10.0	13.6	14.5	12.7	15.4	20.8	19.9	9.1	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)