

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: P1210207

Luminaire Tested: **ARCH2-50-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7793 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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

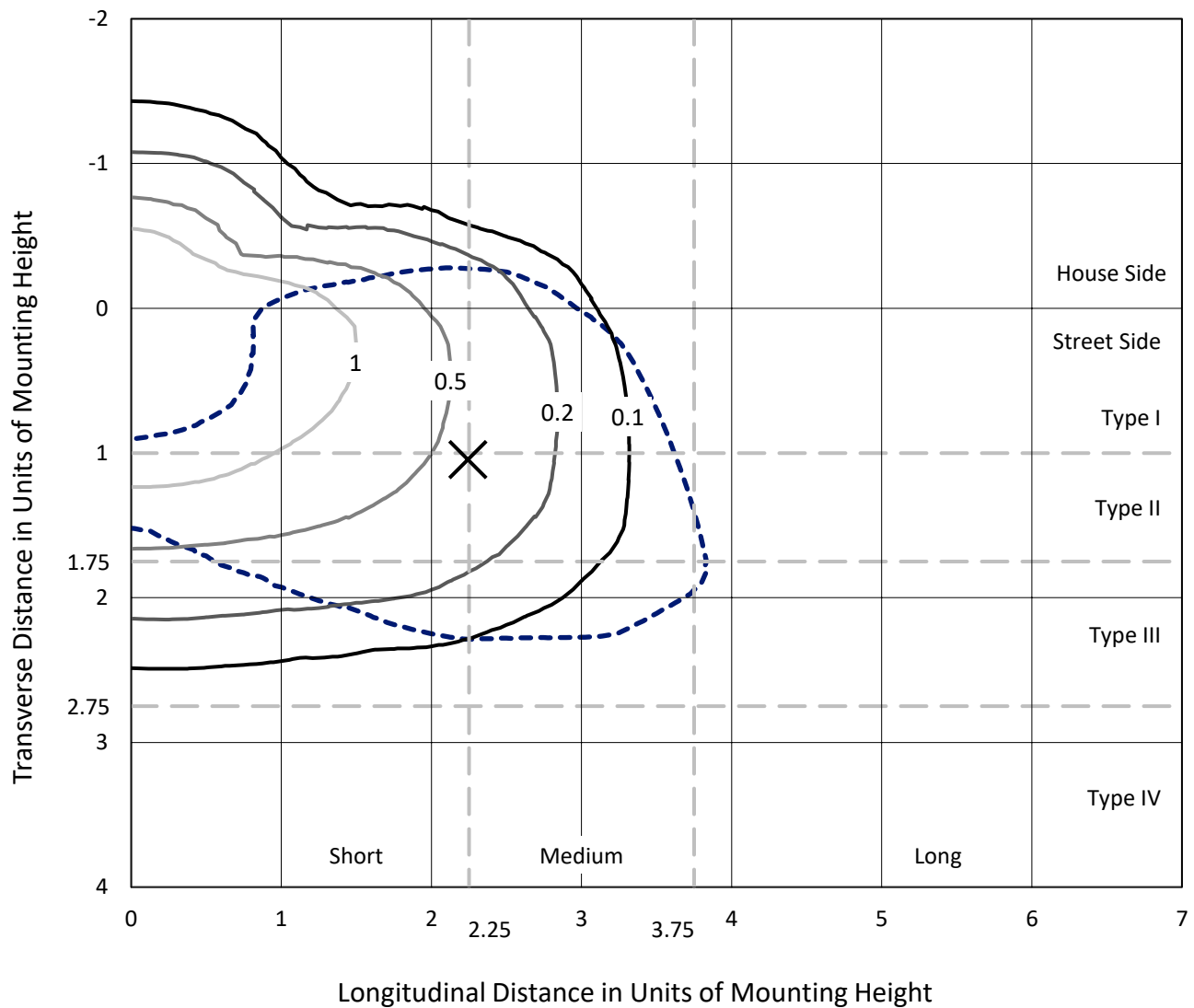


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Iso-Footcandle Lines of Horizontal Illumination

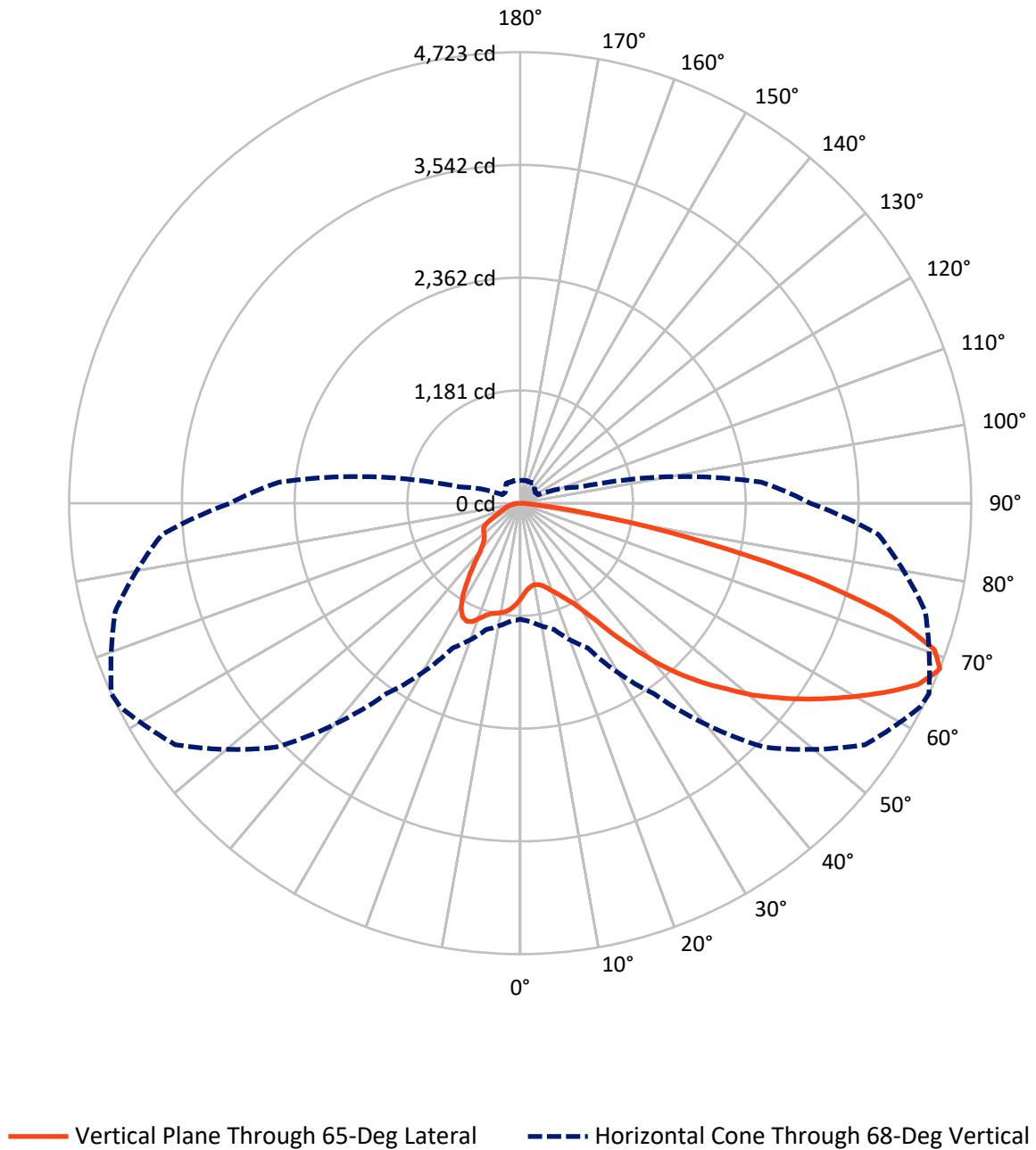
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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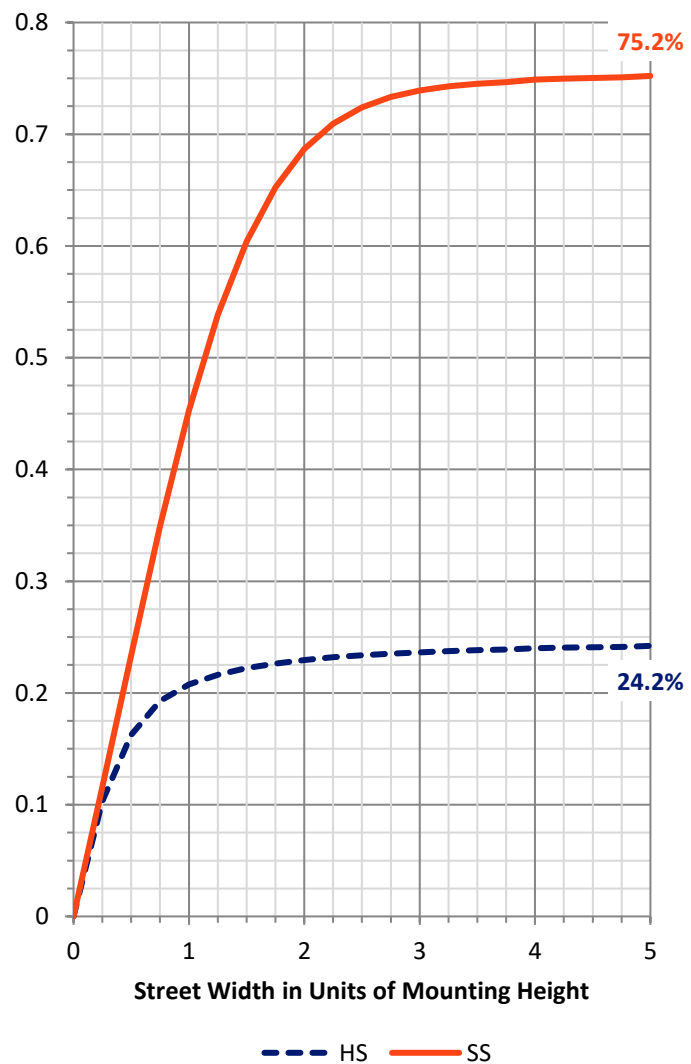
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1910.6	0.0	1910.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5882.4	0.0	5882.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	7793.0	0.0	7793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.2
10°-20°	309.9	4.0
20°-30°	560.9	7.2
30°-40°	882.3	11.3
40°-50°	1314.1	16.9
50°-60°	1723.8	22.1
60°-70°	1885.1	24.2
70°-80°	932.8	12.0
80°-90°	89.0	1.1
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°	7793.0	100.0
0°-180°	7793.0	100.0

Coefficient of Utilization



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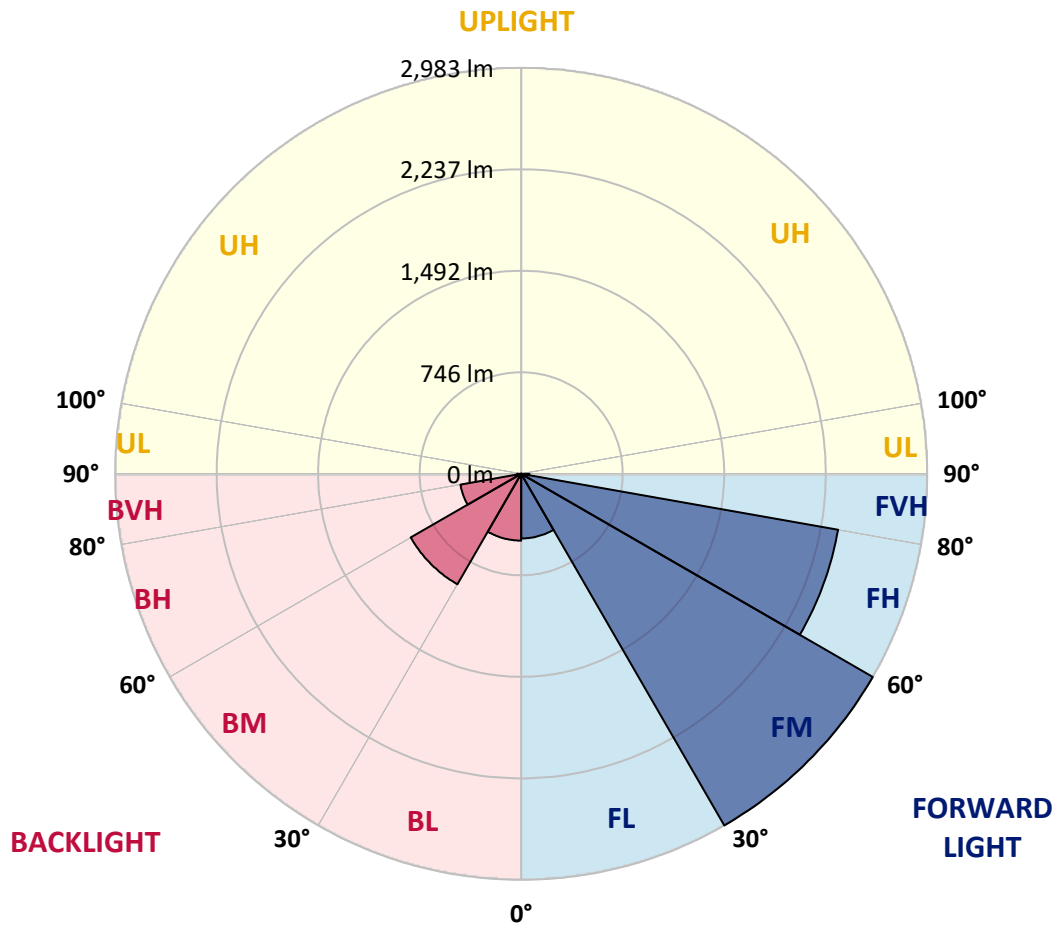
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.1	6.1			
FM	(30°-60°)	2983.1	38.3			
FH	(60°-80°)	2364.4	30.3			G2/5000
FVH	(80°-90°)	59.8	0.8			G1/100
BL	(0°-30°)	490.9	6.3	B1/500		
BM	(30°-60°)	937.1	12.0	B1/1000		
BH	(60°-80°)	453.5	5.8	B1/500		G1/500
BVH	(80°-90°)	29.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9
2.5°	869.2	867.2	872.2	877.3	888.3	901.4	919.5	934.6	936.6	964.7	986.8
5°	818.0	815.0	820.0	826.0	831.0	847.1	866.2	888.3	897.4	938.6	985.8
7.5°	823.0	822.0	824.0	822.0	822.0	829.0	842.1	864.2	874.3	923.5	990.8
10°	852.2	854.2	855.2	849.1	843.1	840.1	844.1	859.2	866.2	924.5	1012.9
12.5°	900.4	903.4	904.4	893.4	885.3	872.2	865.2	871.2	876.3	934.6	1044.1
15°	965.7	967.7	960.7	953.6	933.5	917.5	900.4	895.4	897.4	955.7	1079.3
17.5°	1042.1	1039.1	1039.1	1022.0	995.9	970.7	942.6	938.6	938.6	989.8	1129.5
20°	1125.5	1128.5	1119.5	1096.3	1070.2	1031.0	1002.9	984.8	986.8	1029.0	1190.8
22.5°	1246.1	1251.1	1227.0	1193.8	1153.6	1108.4	1068.2	1039.1	1040.1	1080.3	1254.1
25°	1375.7	1377.7	1362.6	1318.4	1264.2	1199.8	1146.6	1109.4	1108.4	1137.5	1335.5
27.5°	1508.3	1517.4	1487.2	1445.0	1394.8	1314.4	1244.1	1193.8	1185.8	1225.0	1437.0
30°	1645.0	1656.1	1626.9	1585.7	1523.4	1455.1	1371.7	1313.4	1308.4	1360.6	1572.7
32.5°	1782.7	1785.7	1762.6	1728.4	1672.1	1607.8	1540.5	1476.2	1471.2	1556.6	1748.5
35°	1895.2	1904.3	1888.2	1880.2	1839.0	1779.7	1714.4	1677.2	1690.2	1799.8	1976.6
37.5°	2030.9	2039.9	2021.8	2019.8	2006.8	1955.5	1910.3	1913.3	1926.4	2075.1	2216.8
40°	2226.8	2236.9	2190.7	2170.6	2170.6	2120.3	2105.3	2176.6	2193.7	2346.4	2467.0
42.5°	2392.7	2408.7	2381.6	2368.5	2329.3	2294.2	2312.3	2412.8	2441.9	2605.7	2685.1
45°	2473.0	2485.1	2517.3	2555.4	2517.3	2456.0	2524.3	2637.8	2679.0	2844.9	2903.1
47.5°	2516.3	2527.3	2564.5	2667.0	2693.1	2641.9	2738.3	2880.0	2908.2	3082.0	3111.2
50°	2522.3	2557.5	2605.7	2708.2	2827.8	2834.8	2953.4	3126.2	3159.4	3315.1	3294.0
52.5°	2473.0	2487.1	2586.6	2759.4	2892.1	3012.7	3187.5	3362.4	3386.5	3534.2	3455.8
55°	2392.7	2412.8	2512.2	2747.4	2954.4	3181.5	3425.7	3594.5	3621.6	3747.3	3605.6
57.5°	2320.3	2330.4	2436.9	2712.2	3016.7	3350.3	3637.7	3836.7	3854.8	3934.2	3716.1
60°	2239.9	2251.0	2357.5	2636.8	3062.9	3477.9	3858.8	4080.9	4097.0	4131.1	3844.7
62.5°	2031.9	2061.0	2194.7	2512.2	3050.9	3623.7	4094.9	4322.1	4342.1	4305.0	3946.2
65°	1650.0	1691.2	1855.0	2229.9	2938.3	3718.1	4287.9	4544.1	4578.3	4435.6	3973.4
67.5°	1281.2	1310.4	1442.0	1769.6	2543.4	3670.9	4412.5	4696.9	4706.9	4414.5	3822.6
68°	1214.9	1244.1	1369.7	1673.1	2433.9	3614.6	4409.5	4700.9	4723.0	4391.4	3764.3
70°	929.5	962.7	1082.3	1325.5	1961.6	3256.9	4225.6	4604.4	4601.4	4112.0	3402.6
72.5°	580.8	599.9	682.3	836.1	1297.3	2478.1	3586.5	4060.8	4068.8	3352.3	2609.7
75°	368.8	368.8	364.8	405.0	665.2	1411.9	2666.0	3126.2	3132.3	2347.4	1645.0
77.5°	320.6	311.5	268.3	227.1	265.3	548.7	1577.7	2018.8	1985.7	1264.2	780.8
80°	270.3	255.2	220.1	182.9	170.8	171.8	606.0	1025.0	980.8	455.2	259.3
82.5°	194.9	181.9	165.8	143.7	131.6	102.5	126.6	296.4	289.4	131.6	84.4
85°	105.5	95.5	93.5	94.5	79.4	63.3	53.3	65.3	65.3	57.3	48.2
87.5°	37.2	27.1	32.2	36.2	31.2	26.1	21.1	25.1	26.1	25.1	23.1
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°	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9	995.9
2.5°	999.9	1009.9	1034.0	1055.1	1070.2	1083.3	1090.3	1093.3	1100.4	1101.4	1099.4
5°	1007.9	1034.0	1070.2	1101.4	1118.4	1125.5	1127.5	1128.5	1125.5	1127.5	1125.5
7.5°	1029.0	1062.2	1113.4	1140.6	1143.6	1132.5	1133.5	1129.5	1133.5	1137.5	1137.5
10°	1061.2	1103.4	1151.6	1161.7	1148.6	1142.6	1154.6	1178.7	1186.8	1197.8	1197.8
12.5°	1103.4	1153.6	1187.8	1178.7	1166.7	1186.8	1222.0	1246.1	1254.1	1258.1	1255.1
15°	1151.6	1205.9	1223.0	1192.8	1214.9	1258.1	1270.2	1256.1	1236.0	1227.0	1232.0
17.5°	1212.9	1258.1	1248.1	1228.0	1278.2	1284.3	1245.1	1199.8	1167.7	1155.6	1163.7
20°	1277.2	1316.4	1270.2	1279.2	1310.4	1246.1	1171.7	1113.4	1085.3	1080.3	1088.3
22.5°	1345.6	1370.7	1292.3	1338.5	1292.3	1161.7	1072.2	1042.1	1035.0	1043.1	1050.1
25°	1422.9	1419.9	1330.5	1356.6	1225.0	1058.2	1004.9	1002.9	1002.9	1007.9	1018.0
27.5°	1510.4	1463.1	1368.7	1332.5	1108.4	972.7	962.7	963.7	960.7	961.7	966.7
30°	1611.9	1521.4	1410.9	1253.1	977.8	908.4	904.4	901.4	894.4	892.3	894.4
32.5°	1739.5	1582.7	1454.1	1122.5	863.2	842.1	840.1	824.0	806.9	804.9	812.0
35°	1901.3	1694.3	1476.2	958.7	768.7	767.7	760.7	735.6	713.5	713.5	708.5
37.5°	2086.2	1838.0	1485.2	798.9	690.4	695.4	675.3	643.1	626.0	616.0	619.0
40°	2275.1	2001.8	1484.2	659.2	622.0	623.0	608.0	568.8	526.6	501.4	507.5
42.5°	2457.0	2150.5	1458.1	584.8	566.8	563.7	551.7	498.4	463.3	443.2	444.2
45°	2602.7	2304.2	1417.9	540.6	516.5	521.5	494.4	462.3	430.1	412.0	411.0
47.5°	2748.4	2420.8	1353.6	513.5	479.3	470.3	459.2	437.1	413.0	392.9	393.9
50°	2881.0	2520.3	1293.3	495.4	445.2	422.1	424.1	411.0	389.9	371.8	370.8
52.5°	2974.5	2585.6	1260.1	485.4	404.0	378.8	385.9	378.8	358.7	345.7	344.7
55°	3067.9	2635.8	1271.2	472.3	358.7	338.6	350.7	348.7	337.6	333.6	334.6
57.5°	3143.3	2674.0	1310.4	448.2	315.5	303.5	323.6	317.5	309.5	310.5	310.5
60°	3216.7	2723.3	1356.6	392.9	278.4	279.4	298.5	287.4	282.4	291.4	292.4
62.5°	3293.0	2776.5	1318.4	312.5	246.2	253.2	275.3	266.3	268.3	281.4	285.4
65°	3284.0	2771.5	1074.2	256.2	218.1	232.1	265.3	262.3	263.3	268.3	270.3
67.5°	3099.1	2594.6	738.6	218.1	198.0	215.0	257.3	245.2	246.2	243.2	244.2
68°	3036.8	2532.3	651.2	212.0	193.9	211.0	253.2	242.2	243.2	240.2	239.2
70°	2697.1	2168.6	412.0	186.9	179.9	200.0	233.1	229.1	228.1	226.1	226.1
72.5°	2056.0	1600.8	217.1	161.8	163.8	182.9	208.0	216.1	211.0	212.0	218.1
75°	1361.6	962.7	150.7	138.7	143.7	156.8	184.9	201.0	196.0	199.0	196.0
77.5°	720.5	518.5	120.6	117.6	117.6	126.6	152.7	177.9	177.9	175.9	172.8
80°	236.2	182.9	96.5	92.5	94.5	99.5	122.6	145.7	148.7	144.7	142.7
82.5°	79.4	84.4	72.4	67.3	69.3	73.4	92.5	111.5	112.5	104.5	102.5
85°	49.2	56.3	45.2	44.2	44.2	45.2	56.3	61.3	56.3	50.2	52.3
87.5°	23.1	28.1	21.1	18.1	15.1	13.1	10.0	4.0	4.0	2.0	2.0
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)