

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: P1210005

Luminaire Tested: **ARCH1-50-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5827 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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

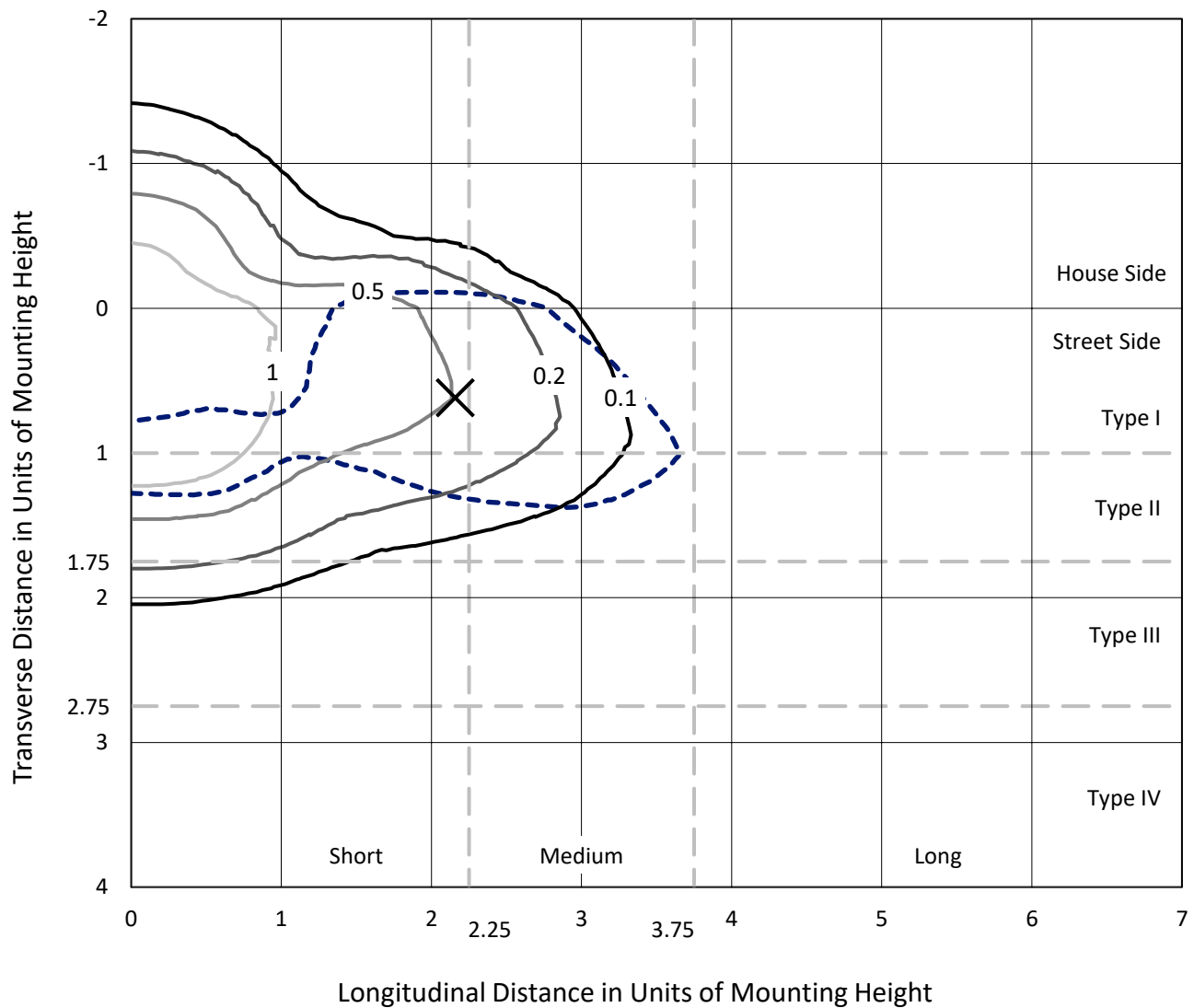


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Iso-Footcandle Lines of Horizontal Illumination

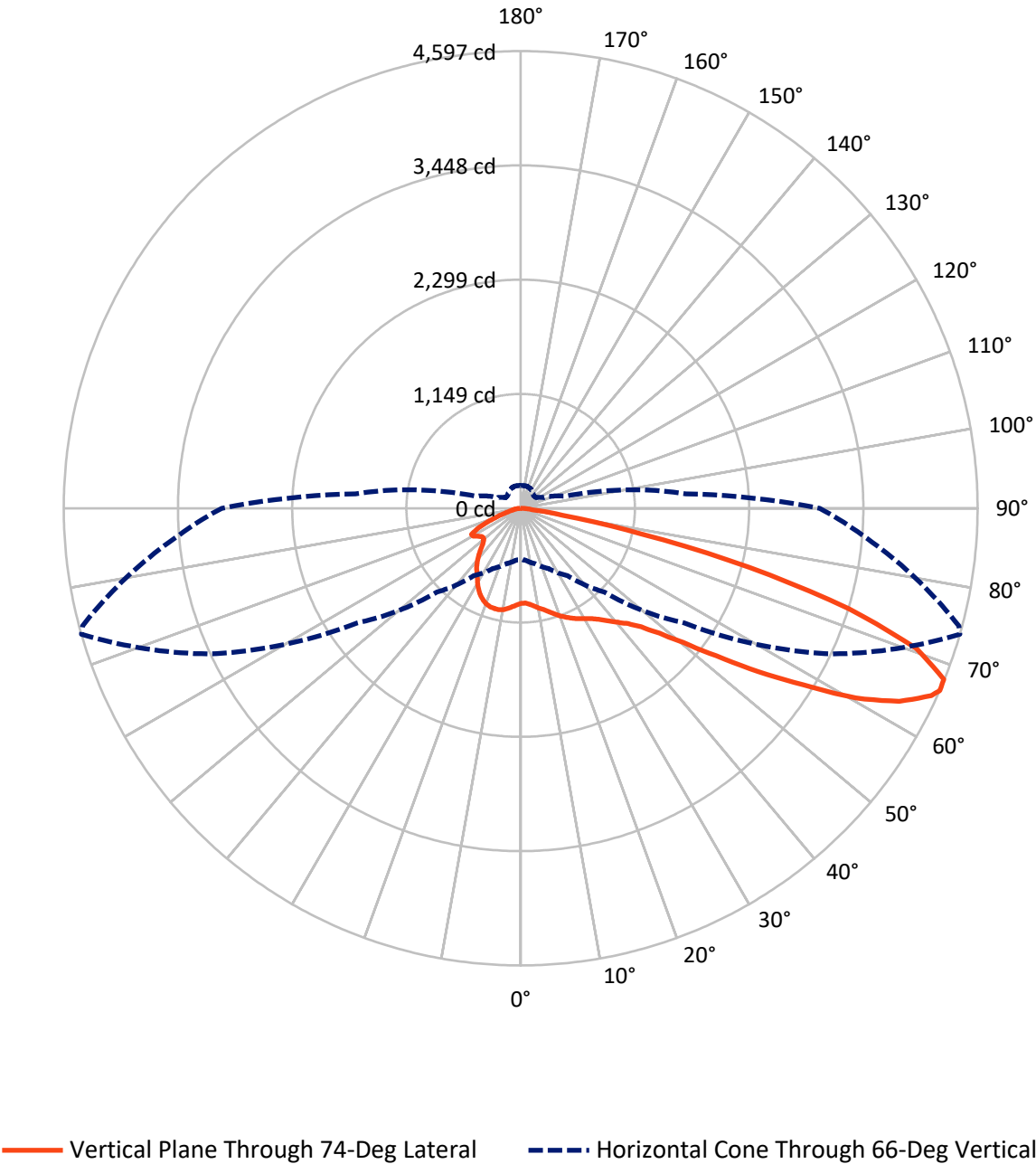
✕ Max cd
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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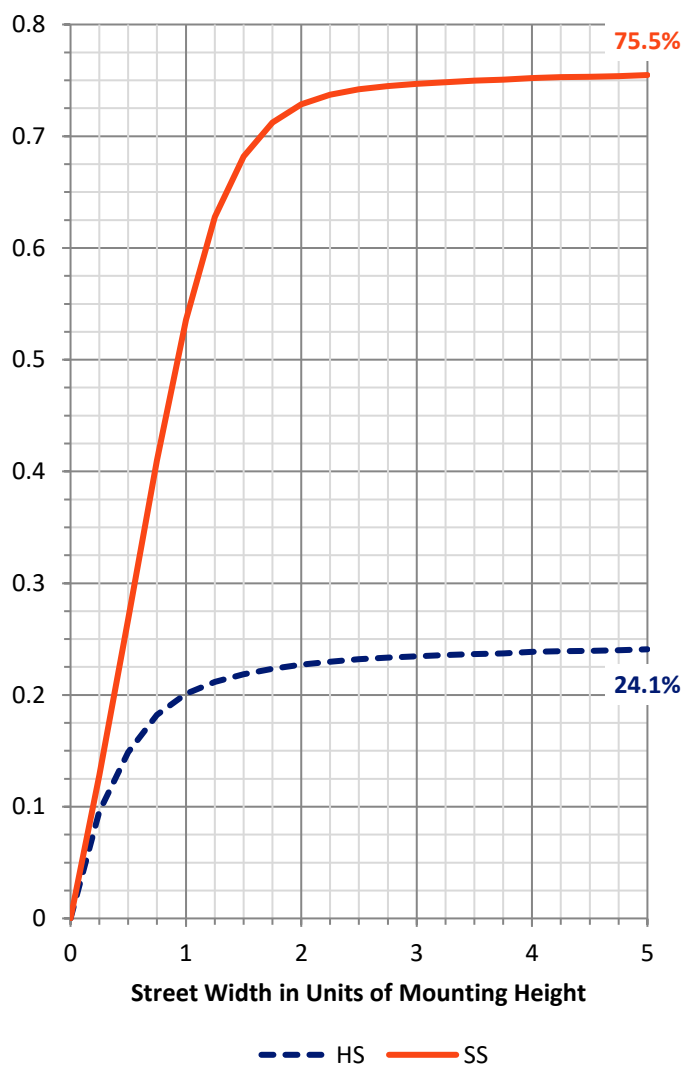
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1419.0	0.0	1419.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	4408.0	0.0	4408.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	5827.0	0.0	5827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.6
10°-20°	280.2	4.8
20°-30°	525.8	9.0
30°-40°	808.8	13.9
40°-50°	1088.0	18.7
50°-60°	1286.7	22.1
60°-70°	1190.2	20.4
70°-80°	500.7	8.6
80°-90°	55.4	1.0
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°	5827.0	100.0
0°-180°	5827.0	100.0

Coefficient of Utilization



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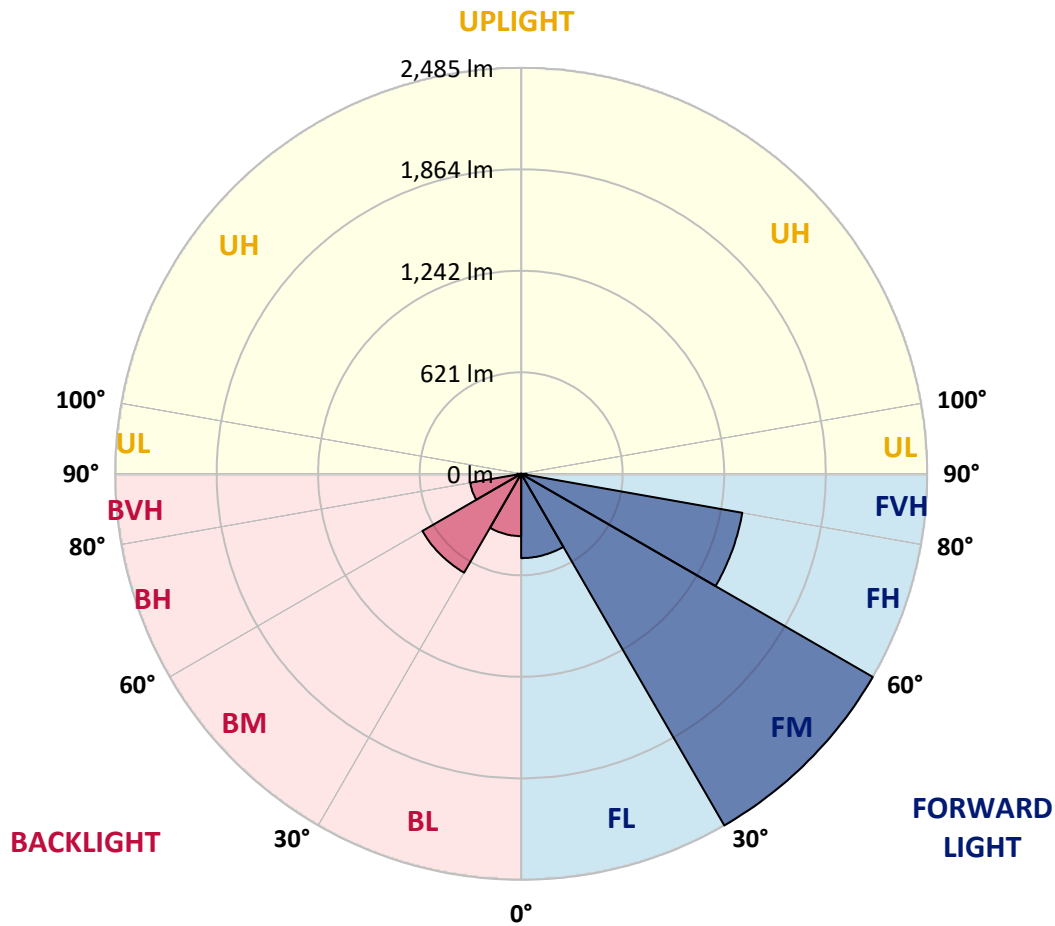
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	515.8	8.9			
FM	(30°-60°)	2484.9	42.6			
FH	(60°-80°)	1374.2	23.6			G1/1800
FVH	(80°-90°)	33.1	0.6			G1/100
BL	(0°-30°)	381.4	6.5	B1/500		
BM	(30°-60°)	698.6	12.0	B1/1000		
BH	(60°-80°)	316.8	5.4	B1/500		G1/500
BVH	(80°-90°)	22.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	952.2	950.7	953.7	958.2	960.5	956.7	955.2	954.5	954.5	952.2	956.0
5°	907.3	906.5	913.3	921.5	937.2	948.5	963.5	972.5	969.5	965.0	968.0
7.5°	848.8	847.3	855.5	871.3	893.0	917.7	954.5	983.0	994.2	992.7	992.0
10°	871.3	869.8	869.0	864.5	872.0	896.0	934.2	984.5	1022.7	1023.5	1024.2
12.5°	949.2	953.0	949.2	935.0	918.5	909.5	932.0	988.2	1046.7	1051.2	1070.0
15°	1055.7	1052.0	1044.5	1028.0	1002.5	975.5	959.0	1005.5	1081.2	1085.0	1126.2
17.5°	1149.4	1152.4	1147.9	1132.2	1102.2	1067.0	1016.7	1035.5	1117.9	1128.4	1186.2
20°	1251.4	1263.4	1257.4	1237.9	1213.2	1160.7	1097.7	1079.0	1158.4	1165.9	1248.4
22.5°	1369.1	1381.9	1370.6	1351.9	1331.6	1267.2	1186.2	1132.2	1192.2	1207.9	1308.4
25°	1510.1	1522.1	1511.6	1482.3	1456.9	1378.1	1281.4	1192.2	1225.2	1242.4	1357.1
27.5°	1621.8	1630.8	1640.6	1623.3	1584.3	1502.6	1380.4	1254.4	1258.2	1276.2	1402.1
30°	1721.5	1744.0	1752.3	1754.5	1721.5	1630.1	1481.6	1318.9	1286.6	1305.4	1447.1
32.5°	1858.0	1891.7	1878.2	1891.7	1872.2	1750.0	1586.6	1385.6	1323.4	1340.6	1489.8
35°	2057.4	2084.4	2049.2	2038.7	2007.2	1871.5	1687.8	1454.6	1372.1	1390.9	1530.3
37.5°	2271.9	2302.6	2251.6	2209.6	2149.7	1991.5	1774.8	1545.3	1439.6	1454.6	1567.8
40°	2459.3	2484.8	2440.6	2385.1	2284.6	2097.2	1849.7	1609.1	1507.1	1525.8	1611.3
42.5°	2632.5	2649.0	2599.5	2546.3	2412.1	2192.4	1930.7	1676.5	1585.8	1603.8	1646.6
45°	2808.0	2820.7	2751.7	2676.0	2518.6	2279.4	2019.9	1771.0	1701.3	1725.3	1703.5
47.5°	2839.5	2843.2	2831.2	2780.2	2602.5	2362.6	2130.2	1897.7	1877.5	1903.7	1801.8
50°	2621.3	2655.0	2729.3	2779.5	2636.3	2432.3	2240.4	2079.2	2120.4	2154.2	2005.7
52.5°	2197.6	2229.9	2401.6	2592.0	2555.3	2448.1	2358.9	2309.4	2463.1	2503.6	2283.1
55°	1750.8	1779.3	1960.7	2235.1	2293.6	2376.1	2485.6	2603.3	2900.2	2927.2	2587.5
57.5°	1441.9	1457.6	1587.3	1851.2	1945.0	2145.9	2553.8	2952.7	3344.8	3386.1	2852.2
60°	1182.4	1199.7	1296.4	1513.8	1638.3	1816.8	2499.8	3297.6	3875.7	3875.7	3191.9
62.5°	890.0	905.0	995.0	1165.2	1374.4	1537.8	2327.4	3526.3	4276.1	4258.1	3437.8
65°	611.1	623.1	688.3	801.5	989.7	1310.6	2091.9	3529.3	4541.5	4517.5	3542.8
66°	512.9	523.4	578.8	670.3	828.5	1189.2	2008.7	3465.6	4597.0	4563.3	3498.5
67.5°	404.9	412.4	449.1	503.1	607.3	962.7	1877.5	3284.9	4591.7	4571.5	3386.1
70°	289.4	294.7	321.7	332.9	359.2	557.1	1491.3	2877.0	4223.6	4229.6	2943.7
72.5°	224.2	232.4	248.9	251.2	245.2	296.2	905.0	2400.1	3455.1	3452.8	2184.9
75°	180.7	185.2	193.4	197.9	196.4	191.2	383.1	1790.5	2378.4	2406.1	1223.7
77.5°	142.5	141.7	149.2	155.2	159.7	150.0	175.5	1049.7	1246.9	1211.7	459.6
80°	105.0	105.0	115.5	117.7	124.5	126.0	117.0	404.9	428.1	389.1	119.2
82.5°	69.0	69.0	80.2	81.7	88.5	98.2	84.7	121.5	118.5	112.5	54.0
85°	37.5	36.0	39.7	45.0	48.7	57.7	51.0	60.7	62.2	61.5	36.0
87.5°	7.5	6.7	10.5	12.0	13.5	18.0	16.5	24.7	34.5	33.7	15.7
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°	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	961.2	960.5	968.7	978.5	989.7	996.5	999.5	1004.7	1001.0	1002.5	1007.0
5°	975.5	977.7	989.7	1002.5	1007.7	1004.0	995.7	992.7	986.0	984.5	983.0
7.5°	996.5	1000.2	1012.2	1015.2	999.5	973.2	954.5	944.0	932.7	929.7	928.2
10°	1031.0	1033.2	1036.2	1005.5	966.5	931.2	908.0	898.3	890.8	884.8	886.3
12.5°	1074.5	1073.0	1049.7	986.0	930.5	894.5	878.8	872.8	867.5	863.8	863.0
15°	1129.2	1118.7	1052.0	959.0	896.8	866.8	855.5	853.3	847.3	847.3	846.5
17.5°	1184.7	1157.7	1050.5	930.5	864.5	848.0	841.3	839.8	838.3	837.5	839.8
20°	1240.2	1192.2	1038.5	895.3	842.0	832.3	830.8	831.5	830.0	832.3	830.8
22.5°	1288.9	1214.7	1016.0	857.8	826.3	825.5	821.8	823.3	828.5	829.3	831.5
25°	1326.4	1222.9	983.0	823.3	815.0	813.5	818.0	824.0	828.5	829.3	833.0
27.5°	1357.1	1218.4	941.7	796.3	795.5	803.8	817.3	819.5	820.3	820.3	817.3
30°	1380.4	1208.7	889.3	766.3	770.0	790.3	803.0	803.0	797.0	795.5	800.0
32.5°	1385.6	1195.9	832.3	735.5	741.5	765.5	781.3	776.0	769.3	769.3	772.3
35°	1390.1	1178.7	786.5	693.6	702.6	731.1	746.0	735.5	728.1	725.8	725.1
37.5°	1388.6	1171.9	745.3	640.3	652.3	680.1	689.8	680.1	668.8	663.6	670.3
40°	1390.1	1167.4	693.6	581.8	593.8	610.3	623.1	615.6	605.1	591.6	598.3
42.5°	1399.1	1173.4	636.6	524.9	524.9	533.9	555.6	550.3	524.9	519.6	525.6
45°	1447.1	1205.7	579.6	467.9	459.6	465.6	488.1	465.6	449.9	449.9	455.1
47.5°	1563.3	1265.7	529.4	417.6	398.1	410.1	416.1	395.1	383.1	380.1	385.4
50°	1800.3	1385.6	499.4	376.4	352.4	361.4	357.7	356.9	344.9	346.4	349.4
52.5°	2160.2	1619.6	490.4	356.2	326.2	328.4	324.7	326.2	323.9	331.4	333.7
55°	2552.3	1866.2	501.6	359.2	308.2	292.4	293.9	301.4	310.4	322.4	324.7
57.5°	2845.5	1990.0	530.9	379.4	285.7	261.7	265.4	279.7	296.9	306.7	311.9
60°	3063.7	1975.0	573.6	384.6	258.7	233.9	240.7	261.7	276.7	284.9	290.2
62.5°	3134.9	1881.2	584.1	346.4	223.4	207.7	224.2	245.9	252.7	261.7	265.4
65°	3076.4	1748.5	507.6	281.2	196.4	188.2	212.2	228.7	237.7	242.2	242.9
66°	3007.4	1669.0	466.4	255.7	186.7	182.2	207.7	221.2	230.2	229.4	230.2
67.5°	2856.0	1502.6	399.6	219.7	172.5	173.2	200.2	209.2	212.2	209.9	209.9
70°	2340.9	1058.0	286.4	166.5	151.5	162.0	180.0	182.2	188.9	185.9	185.9
72.5°	1443.4	519.6	191.9	127.5	135.0	151.5	150.7	158.2	174.0	178.5	181.5
75°	709.3	210.7	126.7	108.0	120.7	126.7	125.2	144.0	166.5	185.9	192.7
77.5°	269.2	105.0	88.5	94.5	97.5	95.2	99.7	130.5	166.5	201.7	208.4
80°	83.2	72.7	69.7	78.0	73.5	69.7	75.0	108.0	141.0	153.0	153.0
82.5°	50.2	57.0	54.0	53.2	49.5	50.2	54.0	77.2	108.7	114.0	114.0
85°	35.2	37.5	30.7	29.2	28.5	27.7	27.7	45.0	64.5	63.7	66.0
87.5°	13.5	15.0	11.2	11.2	10.5	7.5	6.0	7.5	7.5	5.2	3.7
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)