

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: P1210015

Luminaire Tested: **ARCH1-50-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210015
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: ARCH1-50-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6602 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

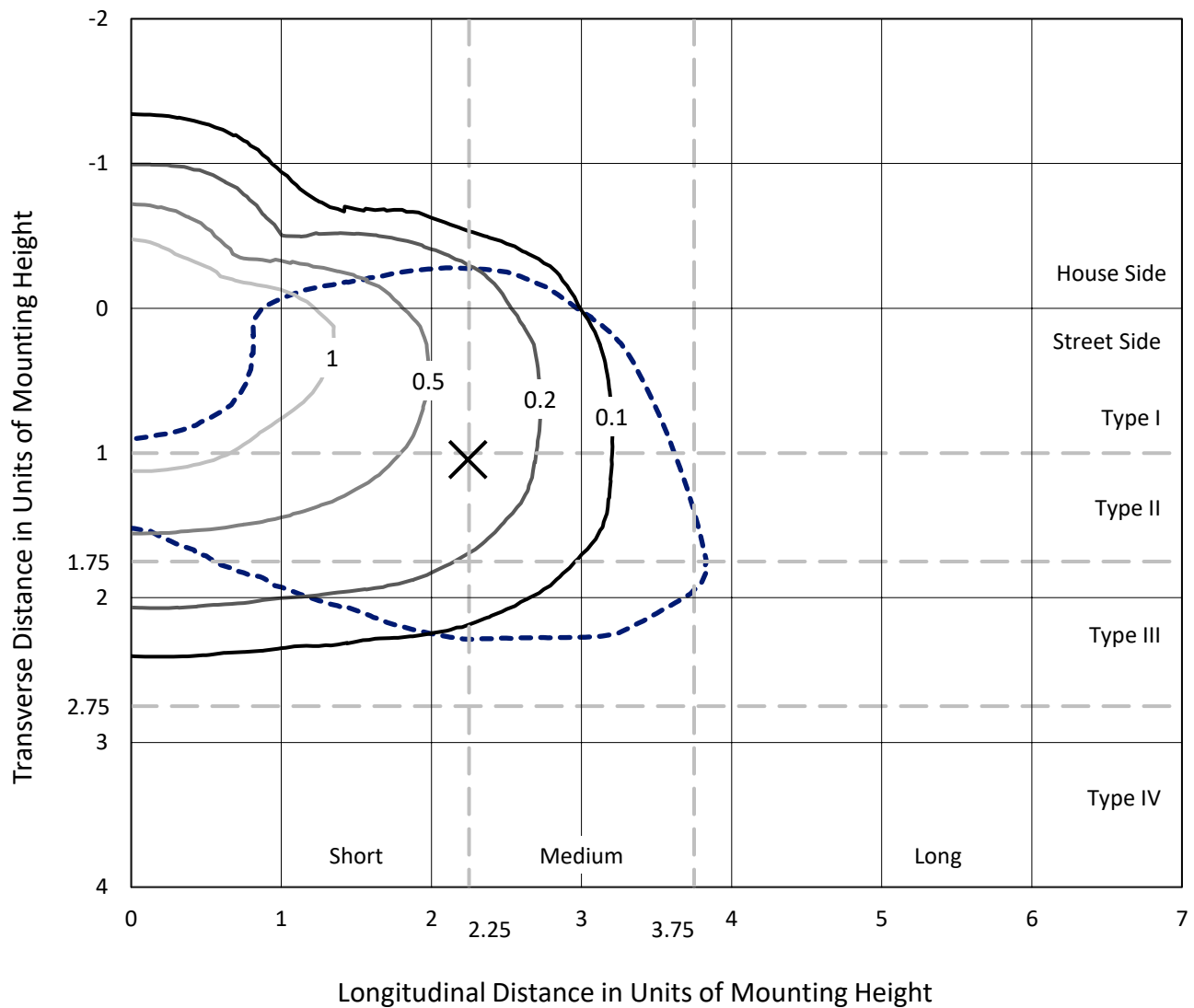


REPORT NUMBER: P1210015

CATALOG NUMBER: ARCH1-50-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

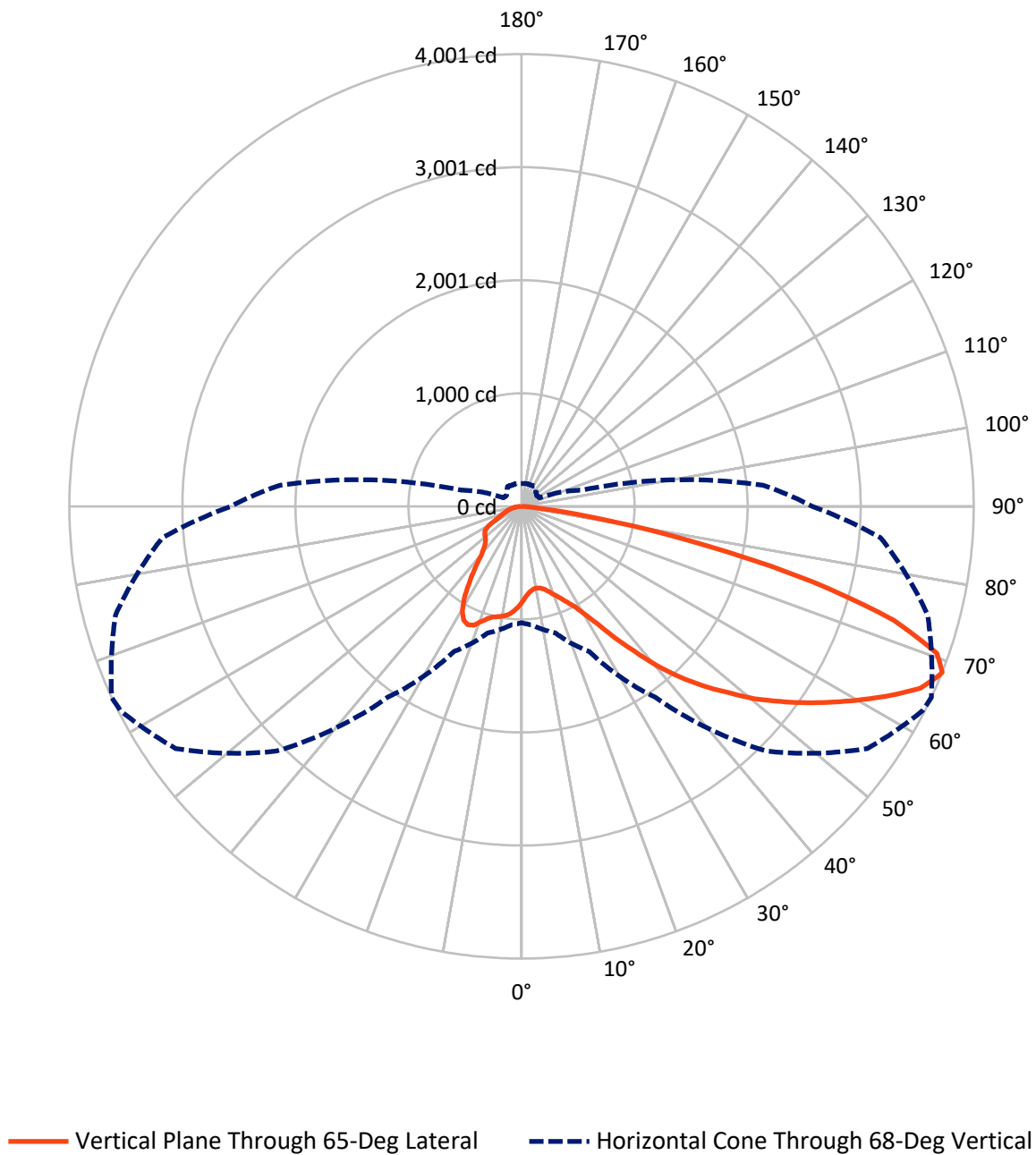


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

REPORT NUMBER: P1210015

CATALOG NUMBER: ARCH1-50-730-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210015

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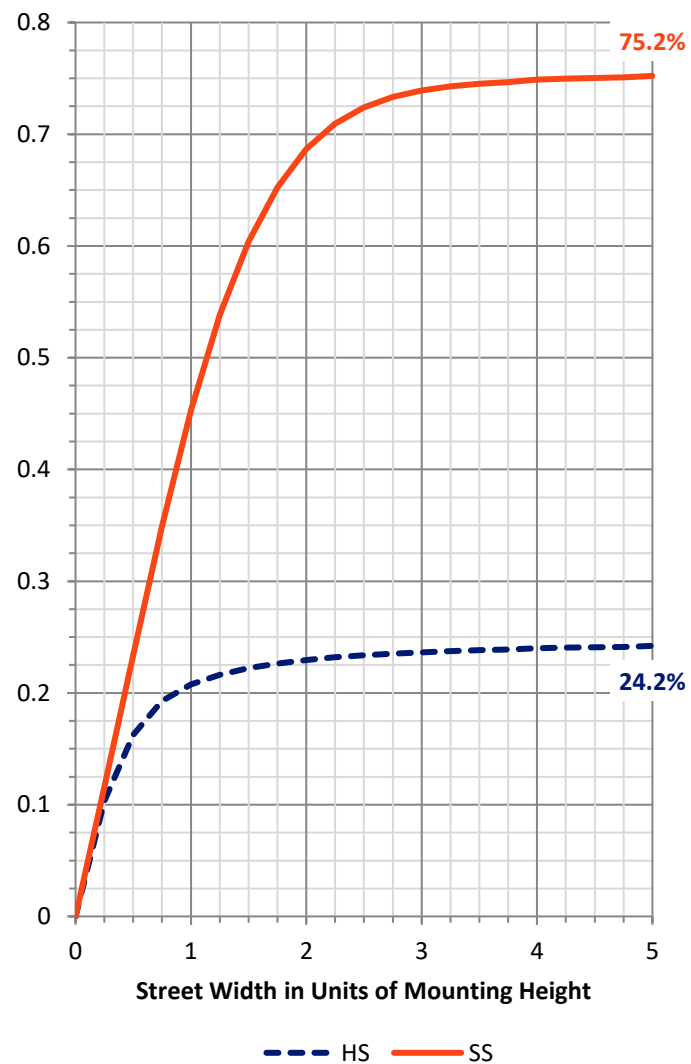
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1618.6	0.0	1618.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4983.4	0.0	4983.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	6602.0	0.0	6602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.2
10°-20°	262.5	4.0
20°-30°	475.1	7.2
30°-40°	747.5	11.3
40°-50°	1113.3	16.9
50°-60°	1460.4	22.1
60°-70°	1597.0	24.2
70°-80°	790.2	12.0
80°-90°	75.4	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°	6602.0	100.0
0°-180°	6602.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210015

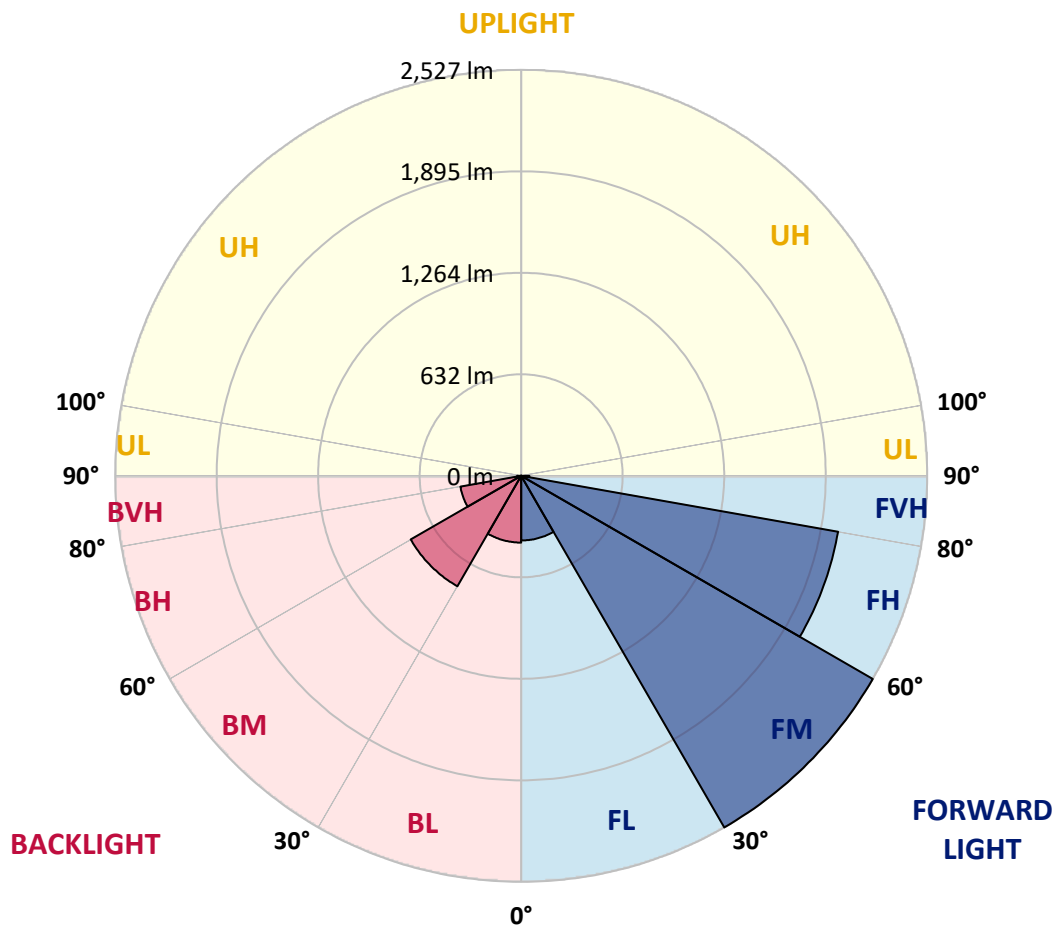
CATALOG NUMBER: ARCH1-50-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.5	6.1			
FM	(30°-60°)	2527.2	38.3			
FH	(60°-80°)	2003.1	30.3			G2/5000
FVH	(80°-90°)	50.7	0.8			G1/100
BL	(0°-30°)	415.8	6.3	B1/500		
BM	(30°-60°)	793.9	12.0	B1/1000		
BH	(60°-80°)	384.2	5.8	B1/500		G1/500
BVH	(80°-90°)	24.7	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



REPORT NUMBER: P1210015

CATALOG NUMBER: ARCH1-50-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7
2.5°	736.4	734.7	738.9	743.2	752.6	763.6	779.0	791.7	793.4	817.3	836.0
5°	693.0	690.4	694.7	699.8	704.0	717.7	733.8	752.6	760.2	795.1	835.1
7.5°	697.2	696.4	698.1	696.4	696.4	702.3	713.4	732.1	740.6	782.4	839.4
10°	721.9	723.6	724.5	719.4	714.3	711.7	715.1	727.9	733.8	783.2	858.1
12.5°	762.8	765.3	766.2	756.8	750.0	738.9	733.0	738.1	742.3	791.7	884.5
15°	818.1	819.8	813.9	807.9	790.9	777.3	762.8	758.5	760.2	809.6	914.3
17.5°	882.8	880.3	880.3	865.8	843.7	822.4	798.5	795.1	795.1	838.5	956.9
20°	953.5	956.0	948.4	928.8	906.7	873.5	849.6	834.3	836.0	871.7	1008.8
22.5°	1055.6	1059.9	1039.5	1011.4	977.3	939.0	905.0	880.3	881.1	915.2	1062.4
25°	1165.5	1167.2	1154.4	1116.9	1071.0	1016.5	971.4	939.9	939.0	963.7	1131.4
27.5°	1277.8	1285.5	1259.9	1224.2	1181.6	1113.5	1053.9	1011.4	1004.6	1037.8	1217.4
30°	1393.6	1403.0	1378.3	1343.4	1290.6	1232.7	1162.0	1112.7	1108.4	1152.7	1332.3
32.5°	1510.2	1512.8	1493.2	1464.3	1416.6	1362.1	1305.1	1250.6	1246.3	1318.7	1481.3
35°	1605.6	1613.2	1599.6	1592.8	1557.9	1507.7	1452.3	1420.8	1431.9	1524.7	1674.5
37.5°	1720.5	1728.2	1712.9	1711.1	1700.1	1656.7	1618.4	1620.9	1632.0	1758.0	1878.0
40°	1886.5	1895.0	1855.9	1838.8	1838.8	1796.3	1783.5	1844.0	1858.4	1987.8	2090.0
42.5°	2027.0	2040.6	2017.6	2006.6	1973.4	1943.6	1958.9	2044.0	2068.7	2207.5	2274.7
45°	2095.1	2105.3	2132.5	2164.9	2132.5	2080.6	2138.5	2234.7	2269.6	2410.1	2459.5
47.5°	2131.7	2141.1	2172.6	2259.4	2281.5	2238.1	2319.8	2439.9	2463.7	2611.0	2635.7
50°	2136.8	2166.6	2207.5	2294.3	2395.6	2401.6	2502.0	2648.4	2676.5	2808.5	2790.6
52.5°	2095.1	2107.0	2191.3	2337.7	2450.1	2552.2	2700.4	2848.5	2868.9	2994.1	2927.7
55°	2027.0	2044.0	2128.3	2327.5	2502.9	2695.3	2902.1	3045.2	3068.1	3174.6	3054.5
57.5°	1965.7	1974.2	2064.4	2297.7	2555.7	2838.3	3081.8	3250.3	3265.7	3332.9	3148.2
60°	1897.6	1907.0	1997.2	2233.9	2594.8	2946.4	3269.1	3457.2	3470.8	3499.8	3257.1
62.5°	1721.4	1746.1	1859.3	2128.3	2584.6	3069.8	3469.1	3661.5	3678.5	3647.0	3343.1
65°	1397.9	1432.8	1571.5	1889.1	2489.3	3149.9	3632.6	3849.7	3878.6	3757.7	3366.1
67.5°	1085.4	1110.1	1221.6	1499.2	2154.7	3109.9	3738.1	3979.1	3987.6	3739.8	3238.4
68°	1029.2	1053.9	1160.3	1417.4	2061.9	3062.2	3735.6	3982.5	4001.2	3720.3	3189.0
70°	787.5	815.6	916.9	1122.9	1661.8	2759.1	3579.8	3900.7	3898.2	3483.6	2882.6
72.5°	492.1	508.2	578.0	708.3	1099.1	2099.3	3038.4	3440.2	3447.0	2840.0	2210.9
75°	312.4	312.4	309.0	343.1	563.6	1196.1	2258.5	2648.4	2653.6	1988.7	1393.6
77.5°	271.6	263.9	227.3	192.4	224.7	464.8	1336.6	1710.3	1682.2	1071.0	661.5
80°	229.0	216.2	186.4	154.9	144.7	145.6	513.3	868.3	830.9	385.6	219.6
82.5°	165.2	154.1	140.5	121.7	111.5	86.8	107.3	251.1	245.2	111.5	71.5
85°	89.4	80.9	79.2	80.0	67.3	53.6	45.1	55.3	55.3	48.5	40.9
87.5°	31.5	23.0	27.2	30.6	26.4	22.1	17.9	21.3	22.1	21.3	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210015

CATALOG NUMBER: ARCH1-50-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7	843.7
2.5°	847.1	855.6	876.0	893.9	906.7	917.7	923.7	926.2	932.2	933.0	931.3
5°	853.9	876.0	906.7	933.0	947.5	953.5	955.2	956.0	953.5	955.2	953.5
7.5°	871.7	899.8	943.3	966.2	968.8	959.4	960.3	956.9	960.3	963.7	963.7
10°	899.0	934.7	975.6	984.1	973.1	967.9	978.2	998.6	1005.4	1014.8	1014.8
12.5°	934.7	977.3	1006.3	998.6	988.4	1005.4	1035.2	1055.6	1062.4	1065.8	1063.3
15°	975.6	1021.6	1036.1	1010.5	1029.2	1065.8	1076.1	1064.1	1047.1	1039.5	1043.7
17.5°	1027.5	1065.8	1057.3	1040.3	1082.9	1088.0	1054.8	1016.5	989.2	979.0	985.8
20°	1082.0	1115.2	1076.1	1083.7	1110.1	1055.6	992.6	943.3	919.4	915.2	922.0
22.5°	1139.9	1161.2	1094.8	1134.0	1094.8	984.1	908.4	882.8	876.9	883.7	889.6
25°	1205.5	1202.9	1127.1	1149.3	1037.8	896.4	851.3	849.6	849.6	853.9	862.4
27.5°	1279.5	1239.5	1159.5	1128.8	939.0	824.1	815.6	816.4	813.9	814.7	819.0
30°	1365.5	1288.9	1195.2	1061.6	828.3	769.6	766.2	763.6	757.7	756.0	757.7
32.5°	1473.6	1340.8	1231.9	950.9	731.3	713.4	711.7	698.1	683.6	681.9	687.9
35°	1610.7	1435.3	1250.6	812.2	651.3	650.4	644.4	623.2	604.4	604.4	600.2
37.5°	1767.3	1557.1	1258.2	676.8	584.9	589.1	572.1	544.8	530.4	521.9	524.4
40°	1927.4	1695.8	1257.4	558.5	527.0	527.8	515.0	481.8	446.1	424.8	429.9
42.5°	2081.5	1821.8	1235.3	495.5	480.1	477.6	467.4	422.3	392.5	375.4	376.3
45°	2204.9	1952.1	1201.2	458.0	437.6	441.8	418.8	391.6	364.4	349.0	348.2
47.5°	2328.4	2050.8	1146.7	435.0	406.1	398.4	389.1	370.3	349.9	332.9	333.7
50°	2440.7	2135.1	1095.6	419.7	377.1	357.6	359.3	348.2	330.3	315.0	314.1
52.5°	2519.9	2190.4	1067.6	411.2	342.2	320.9	326.9	320.9	303.9	292.9	292.0
55°	2599.1	2233.0	1076.9	400.1	303.9	286.9	297.1	295.4	286.0	282.6	283.5
57.5°	2662.9	2265.4	1110.1	379.7	267.3	257.1	274.1	269.0	262.2	263.1	263.1
60°	2725.1	2307.1	1149.3	332.9	235.8	236.7	252.8	243.5	239.2	246.9	247.7
62.5°	2789.8	2352.2	1116.9	264.8	208.6	214.5	233.3	225.6	227.3	238.4	241.8
65°	2782.1	2347.9	910.1	217.1	184.7	196.7	224.7	222.2	223.0	227.3	229.0
67.5°	2625.5	2198.1	625.7	184.7	167.7	182.2	217.9	207.7	208.6	206.0	206.9
68°	2572.7	2145.3	551.7	179.6	164.3	178.8	214.5	205.2	206.0	203.5	202.6
70°	2284.9	1837.1	349.0	158.3	152.4	169.4	197.5	194.1	193.2	191.5	191.5
72.5°	1741.8	1356.1	183.9	137.1	138.8	154.9	176.2	183.0	178.8	179.6	184.7
75°	1153.5	815.6	127.7	117.5	121.7	132.8	156.6	170.3	166.0	168.6	166.0
77.5°	610.4	439.3	102.2	99.6	99.6	107.3	129.4	150.7	150.7	149.0	146.4
80°	200.1	154.9	81.7	78.3	80.0	84.3	103.9	123.4	126.0	122.6	120.9
82.5°	67.3	71.5	61.3	57.0	58.7	62.1	78.3	94.5	95.3	88.5	86.8
85°	41.7	47.7	38.3	37.5	37.5	38.3	47.7	51.9	47.7	42.6	44.3
87.5°	19.6	23.8	17.9	15.3	12.8	11.1	8.5	3.4	3.4	1.7	1.7
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)