

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: P1209945

Luminaire Tested: **ARCH1-30-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209945
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: ARCH1-30-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4472 lumens
Efficiency: N/A
Efficacy: 135.5 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): 33
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

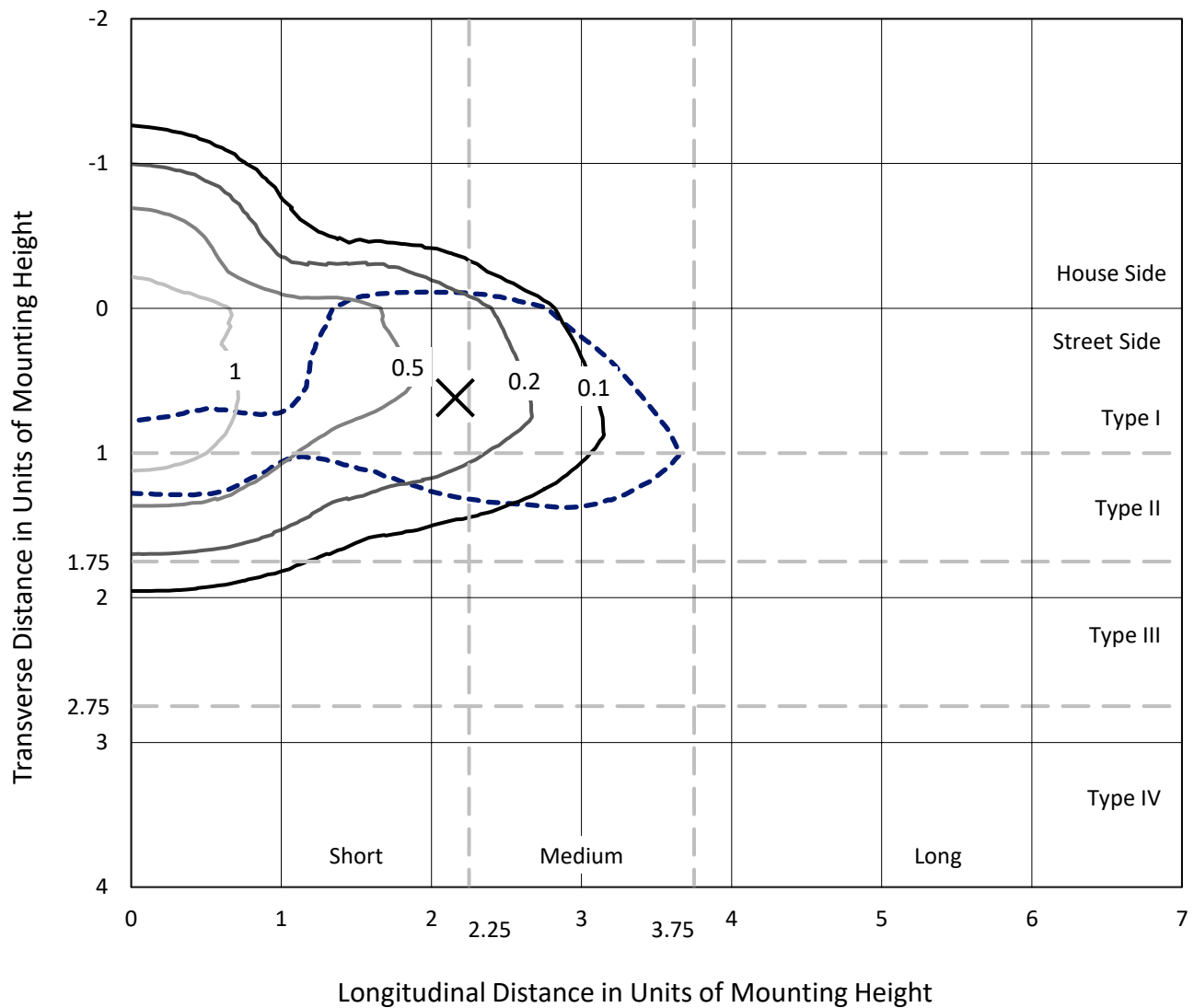


REPORT NUMBER: P1209945

CATALOG NUMBER: ARCH1-30-727-U-T2RE

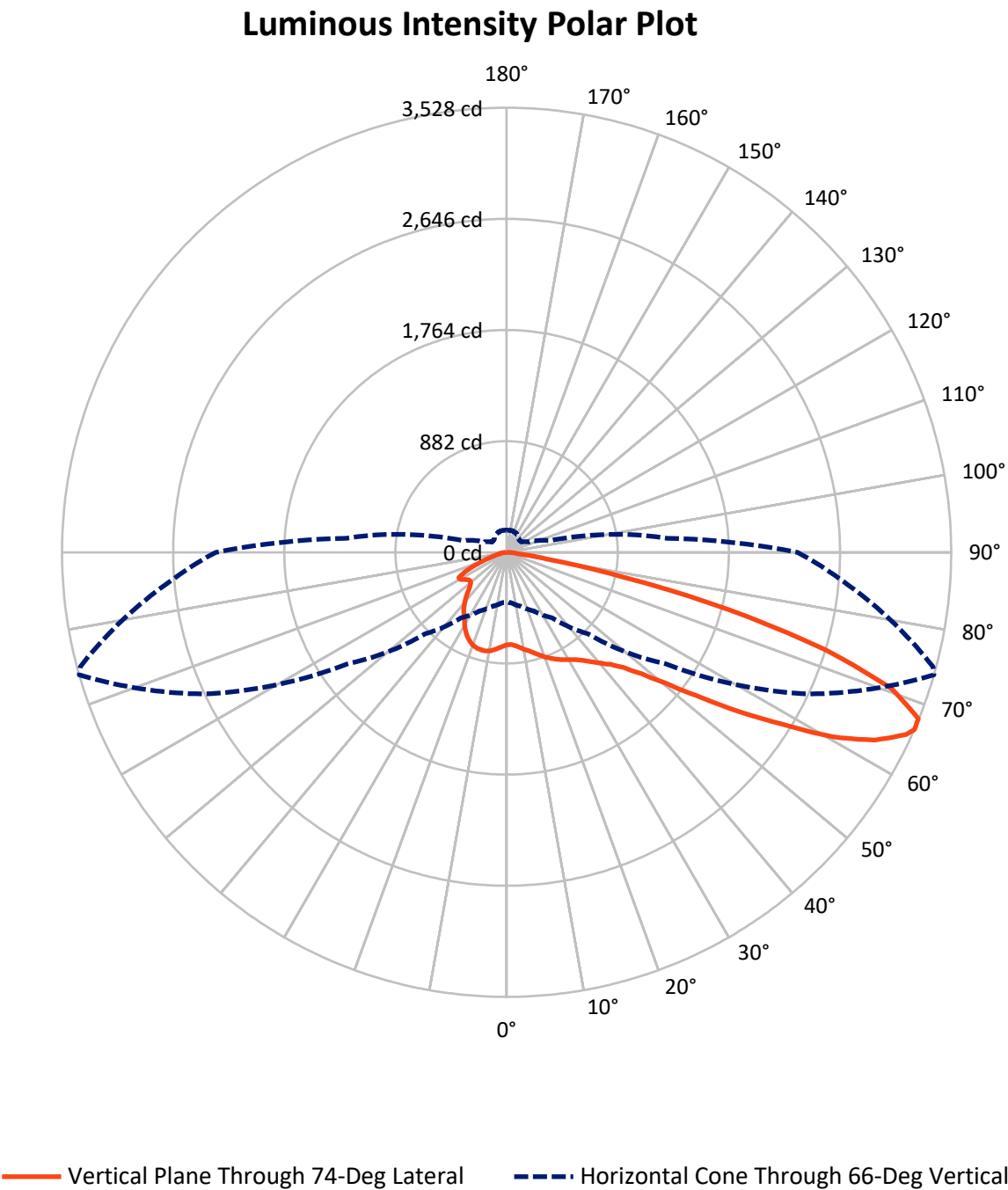
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Short - N/A

REPORT NUMBER: P1209945
CATALOG NUMBER: ARCH1-30-727-U-T2RE



REPORT NUMBER: P1209945

CATALOG NUMBER: ARCH1-30-727-U-T2RE

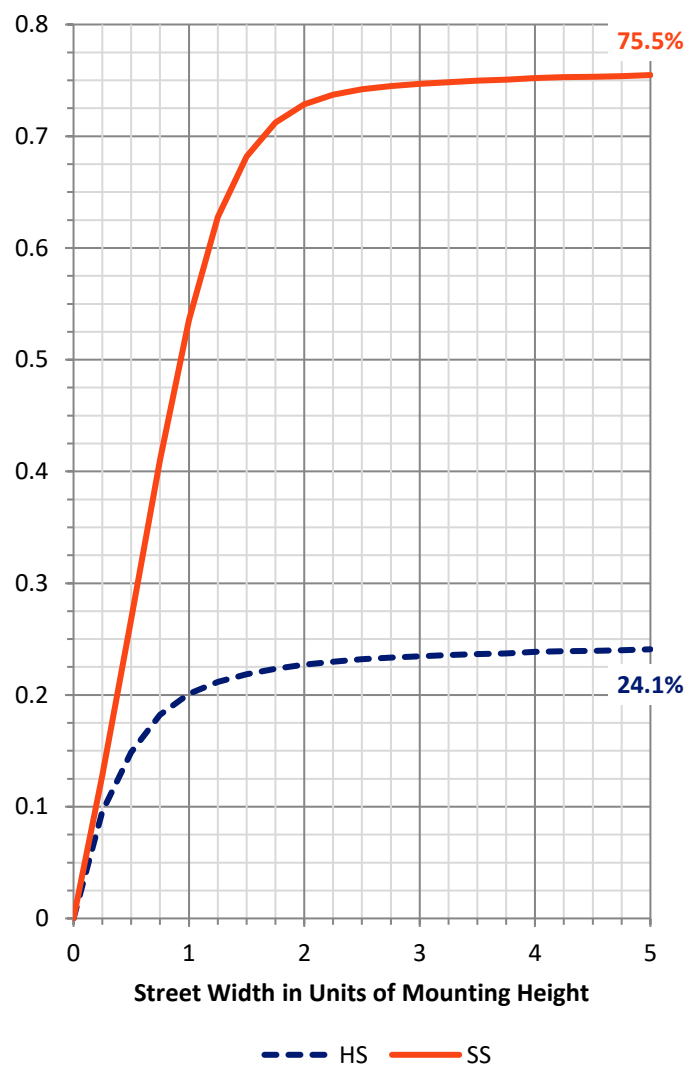
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1089.0	0.0	1089.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	3382.9	0.0	3382.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	4472.0	0.0	4472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.6
10°-20°	215.1	4.8
20°-30°	403.6	9.0
30°-40°	620.8	13.9
40°-50°	835.0	18.7
50°-60°	987.5	22.1
60°-70°	913.5	20.4
70°-80°	384.3	8.6
80°-90°	42.5	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°	4472.0	100.0
0°-180°	4472.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209945

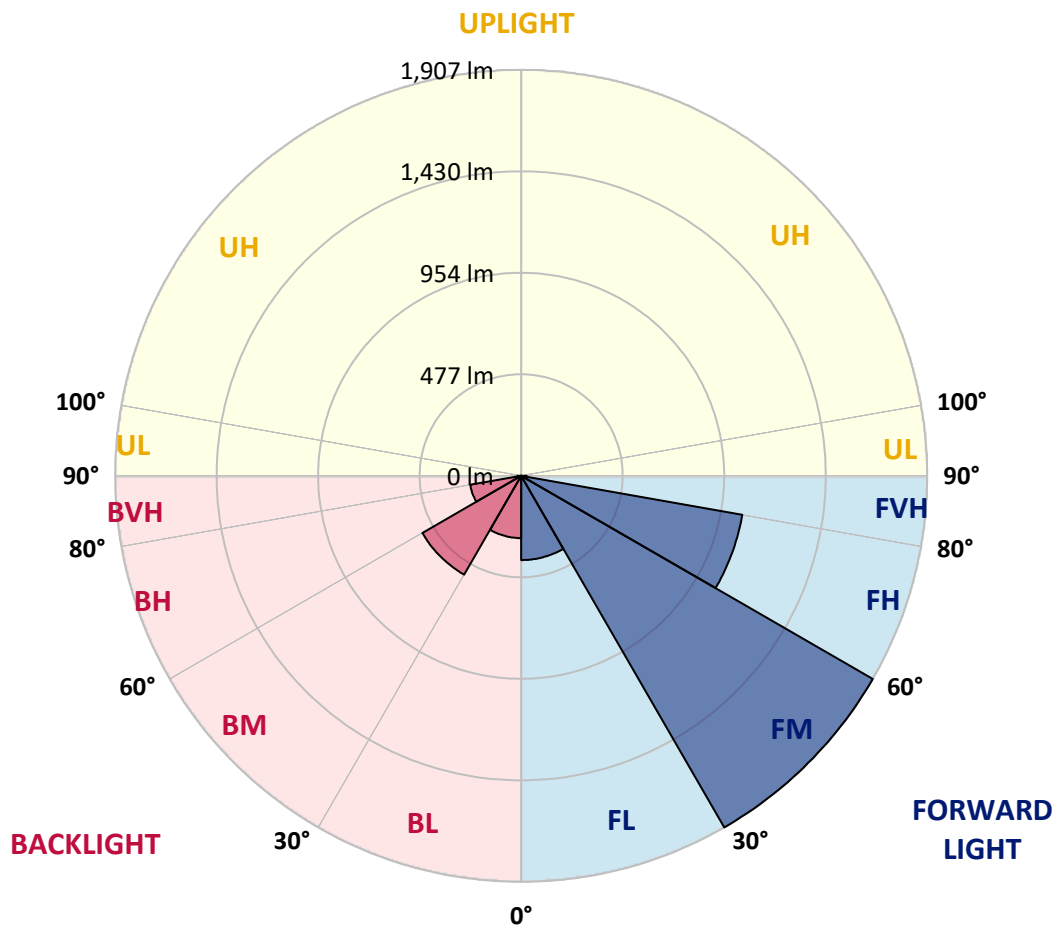
CATALOG NUMBER: ARCH1-30-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.8	8.9			
FM	(30°-60°)	1907.1	42.6			
FH	(60°-80°)	1054.6	23.6			G1/1800
FVH	(80°-90°)	25.4	0.6			G1/100
BL	(0°-30°)	292.7	6.5	B1/500		
BM	(30°-60°)	536.1	12.0	B1/1000		
BH	(60°-80°)	243.1	5.4	B1/500		G1/500
BVH	(80°-90°)	17.1	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-G1

Type II Short



REPORT NUMBER: P1209945

CATALOG NUMBER: ARCH1-30-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
2.5°	730.8	729.7	732.0	735.4	737.1	734.3	733.1	732.5	732.5	730.8	733.7
5°	696.3	695.7	700.9	707.2	719.3	727.9	739.4	746.3	744.0	740.6	742.9
7.5°	651.4	650.2	656.6	668.7	685.3	704.3	732.5	754.4	763.0	761.9	761.3
10°	668.7	667.5	666.9	663.5	669.2	687.6	717.0	755.6	784.9	785.5	786.0
12.5°	728.5	731.4	728.5	717.6	704.9	698.0	715.3	758.4	803.3	806.8	821.2
15°	810.2	807.3	801.6	788.9	769.4	748.6	736.0	771.7	829.8	832.7	864.3
17.5°	882.1	884.4	881.0	868.9	845.9	818.8	780.3	794.7	858.0	866.0	910.3
20°	960.4	969.6	965.0	950.1	931.1	890.8	842.4	828.1	889.1	894.8	958.1
22.5°	1050.8	1060.5	1051.9	1037.5	1022.0	972.5	910.3	868.9	914.9	927.0	1004.1
25°	1158.9	1168.1	1160.1	1137.6	1118.1	1057.7	983.4	914.9	940.3	953.5	1041.5
27.5°	1244.7	1251.6	1259.1	1245.8	1215.9	1153.2	1059.4	962.7	965.6	979.4	1076.1
30°	1321.2	1338.5	1344.8	1346.5	1321.2	1251.0	1137.1	1012.2	987.5	1001.8	1110.6
32.5°	1425.9	1451.8	1441.5	1451.8	1436.9	1343.1	1217.6	1063.4	1015.7	1028.9	1143.4
35°	1579.0	1599.7	1572.7	1564.6	1540.5	1436.3	1295.3	1116.4	1053.1	1067.4	1174.5
37.5°	1743.6	1767.2	1728.0	1695.8	1649.8	1528.4	1362.1	1186.0	1104.8	1116.4	1203.2
40°	1887.4	1907.0	1873.1	1830.5	1753.4	1609.5	1419.6	1234.9	1156.6	1171.0	1236.6
42.5°	2020.4	2033.0	1995.0	1954.2	1851.2	1682.6	1481.8	1286.7	1217.1	1230.9	1263.7
45°	2155.0	2164.8	2111.9	2053.7	1932.9	1749.3	1550.2	1359.2	1305.7	1324.1	1307.4
47.5°	2179.2	2182.1	2172.9	2133.7	1997.3	1813.2	1634.8	1456.4	1440.9	1461.0	1382.8
50°	2011.7	2037.6	2094.6	2133.2	2023.2	1866.7	1719.4	1595.7	1627.3	1653.2	1539.3
52.5°	1686.6	1711.4	1843.1	1989.3	1961.1	1878.8	1810.3	1772.4	1890.3	1921.4	1752.2
55°	1343.7	1365.5	1504.8	1715.4	1760.3	1823.6	1907.6	1997.9	2225.8	2246.5	1985.8
57.5°	1106.6	1118.7	1218.2	1420.8	1492.7	1646.9	1959.9	2266.1	2567.0	2598.7	2189.0
60°	907.5	920.7	994.9	1161.8	1257.3	1394.3	1918.5	2530.8	2974.4	2974.4	2449.6
62.5°	683.0	694.6	763.6	894.2	1054.8	1180.2	1786.2	2706.3	3281.7	3267.9	2638.4
65°	469.0	478.2	528.3	615.1	759.6	1005.9	1605.5	2708.6	3485.4	3467.0	2719.0
66°	393.6	401.7	444.2	514.4	635.9	912.6	1541.6	2659.7	3528.0	3502.1	2685.0
67.5°	310.7	316.5	344.7	386.1	466.1	738.9	1440.9	2521.0	3524.0	3508.5	2598.7
70°	222.1	226.1	246.9	255.5	275.6	427.6	1144.5	2208.0	3241.4	3246.1	2259.2
72.5°	172.1	178.4	191.0	192.8	188.2	227.3	694.6	1842.0	2651.6	2649.9	1676.8
75°	138.7	142.1	148.5	151.9	150.8	146.7	294.0	1374.1	1825.3	1846.6	939.1
77.5°	109.3	108.8	114.5	119.1	122.6	115.1	134.7	805.6	957.0	929.9	352.7
80°	80.6	80.6	88.6	90.3	95.5	96.7	89.8	310.7	328.6	298.7	91.5
82.5°	52.9	52.9	61.6	62.7	67.9	75.4	65.0	93.2	90.9	86.3	41.4
85°	28.8	27.6	30.5	34.5	37.4	44.3	39.1	46.6	47.8	47.2	27.6
87.5°	5.8	5.2	8.1	9.2	10.4	13.8	12.7	19.0	26.5	25.9	12.1
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: P1209945

CATALOG NUMBER: ARCH1-30-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
2.5°	737.7	737.1	743.5	750.9	759.6	764.8	767.1	771.1	768.2	769.4	772.8
5°	748.6	750.4	759.6	769.4	773.4	770.5	764.2	761.9	756.7	755.6	754.4
7.5°	764.8	767.6	776.8	779.1	767.1	746.9	732.5	724.5	715.8	713.5	712.4
10°	791.2	793.0	795.3	771.7	741.7	714.7	696.9	689.4	683.6	679.0	680.2
12.5°	824.6	823.5	805.6	756.7	714.1	686.5	674.4	669.8	665.8	662.9	662.3
15°	866.6	858.6	807.3	736.0	688.2	665.2	656.6	654.8	650.2	650.2	649.7
17.5°	909.2	888.5	806.2	714.1	663.5	650.8	645.6	644.5	643.3	642.8	644.5
20°	951.8	914.9	797.0	687.1	646.2	638.7	637.6	638.2	637.0	638.7	637.6
22.5°	989.2	932.2	779.7	658.3	634.1	633.6	630.7	631.8	635.9	636.4	638.2
25°	1018.0	938.5	754.4	631.8	625.5	624.4	627.8	632.4	635.9	636.4	639.3
27.5°	1041.5	935.1	722.8	611.1	610.5	616.9	627.2	629.0	629.5	629.5	627.2
30°	1059.4	927.6	682.5	588.1	591.0	606.5	616.3	616.3	611.7	610.5	614.0
32.5°	1063.4	917.8	638.7	564.5	569.1	587.5	599.6	595.6	590.4	590.4	592.7
35°	1066.9	904.6	603.6	532.3	539.2	561.1	572.6	564.5	558.8	557.0	556.4
37.5°	1065.7	899.4	572.0	491.4	500.6	521.9	529.4	521.9	513.3	509.3	514.4
40°	1066.9	896.0	532.3	446.5	455.7	468.4	478.2	472.4	464.4	454.0	459.2
42.5°	1073.8	900.6	488.5	402.8	402.8	409.7	426.4	422.4	402.8	398.8	403.4
45°	1110.6	925.3	444.8	359.1	352.7	357.3	374.6	357.3	345.3	345.3	349.3
47.5°	1199.8	971.3	406.3	320.5	305.6	314.8	319.4	303.3	294.0	291.7	295.8
50°	1381.6	1063.4	383.2	288.9	270.5	277.4	274.5	273.9	264.7	265.9	268.2
52.5°	1657.8	1242.9	376.3	273.3	250.3	252.0	249.2	250.3	248.6	254.3	256.1
55°	1958.8	1432.3	385.0	275.6	236.5	224.4	225.6	231.3	238.2	247.4	249.2
57.5°	2183.8	1527.2	407.4	291.2	219.2	200.8	203.7	214.6	227.9	235.4	239.4
60°	2351.2	1515.7	440.2	295.2	198.5	179.5	184.7	200.8	212.3	218.7	222.7
62.5°	2405.9	1443.8	448.3	265.9	171.5	159.4	172.1	188.7	193.9	200.8	203.7
65°	2361.0	1341.9	389.6	215.8	150.8	144.4	162.8	175.5	182.4	185.9	186.4
66°	2308.1	1280.9	357.9	196.2	143.3	139.8	159.4	169.8	176.7	176.1	176.7
67.5°	2191.8	1153.2	306.7	168.6	132.4	132.9	153.6	160.5	162.8	161.1	161.1
70°	1796.5	811.9	219.8	127.7	116.2	124.3	138.1	139.8	145.0	142.7	142.7
72.5°	1107.7	398.8	147.3	97.8	103.6	116.2	115.7	121.4	133.5	137.0	139.3
75°	544.4	161.7	97.2	82.9	92.6	97.2	96.1	110.5	127.7	142.7	147.9
77.5°	206.6	80.6	67.9	72.5	74.8	73.1	76.5	100.1	127.7	154.8	160.0
80°	63.9	55.8	53.5	59.8	56.4	53.5	57.5	82.9	108.2	117.4	117.4
82.5°	38.6	43.7	41.4	40.9	38.0	38.6	41.4	59.3	83.4	87.5	87.5
85°	27.0	28.8	23.6	22.4	21.9	21.3	21.3	34.5	49.5	48.9	50.6
87.5°	10.4	11.5	8.6	8.6	8.1	5.8	4.6	5.8	5.8	4.0	2.9
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)