

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: P1209947

Luminaire Tested: **ARCH1-30-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209947
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: ARCH1-30-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4433 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - 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



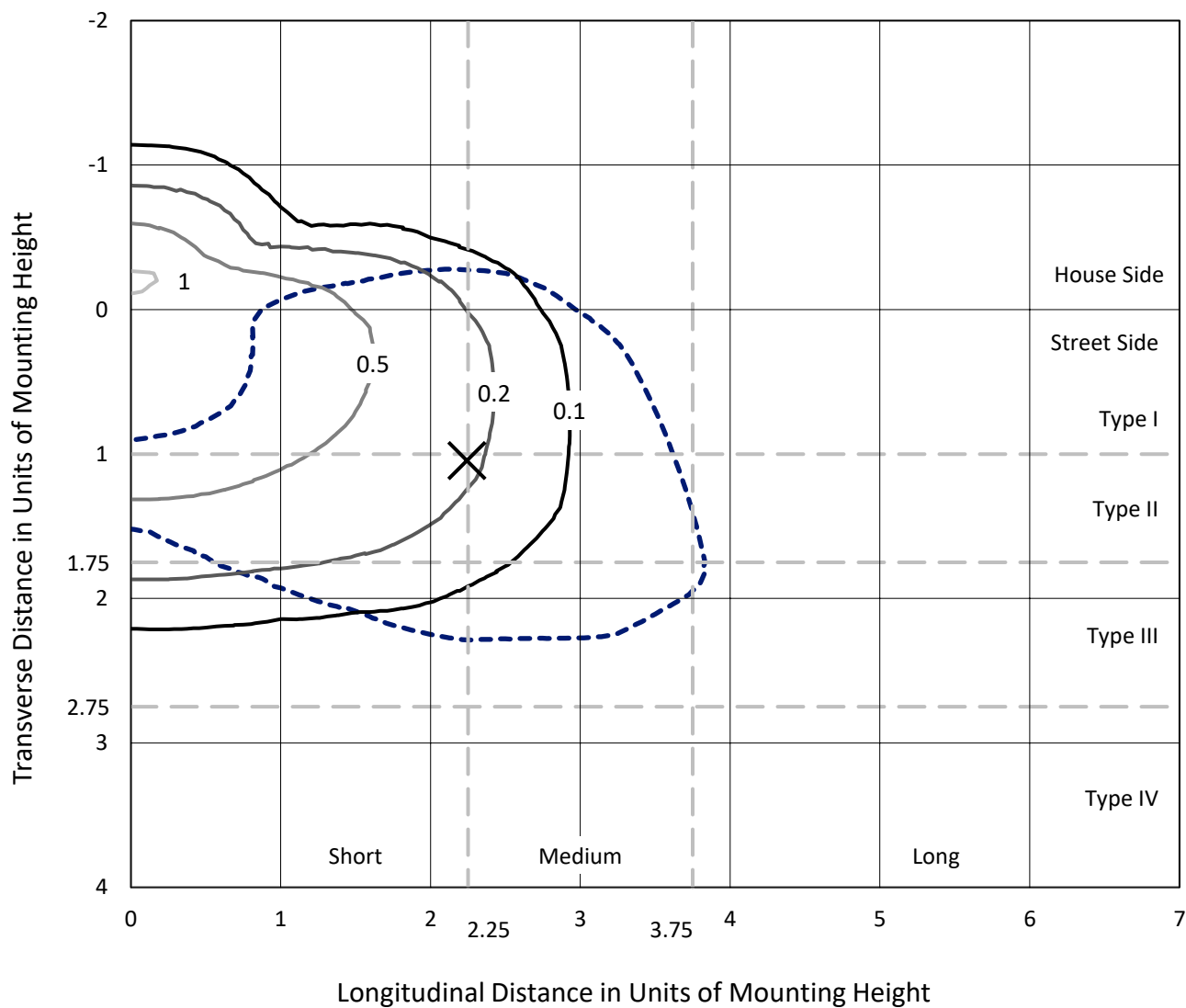
REPORT NUMBER: P1209947

CATALOG NUMBER: ARCH1-30-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

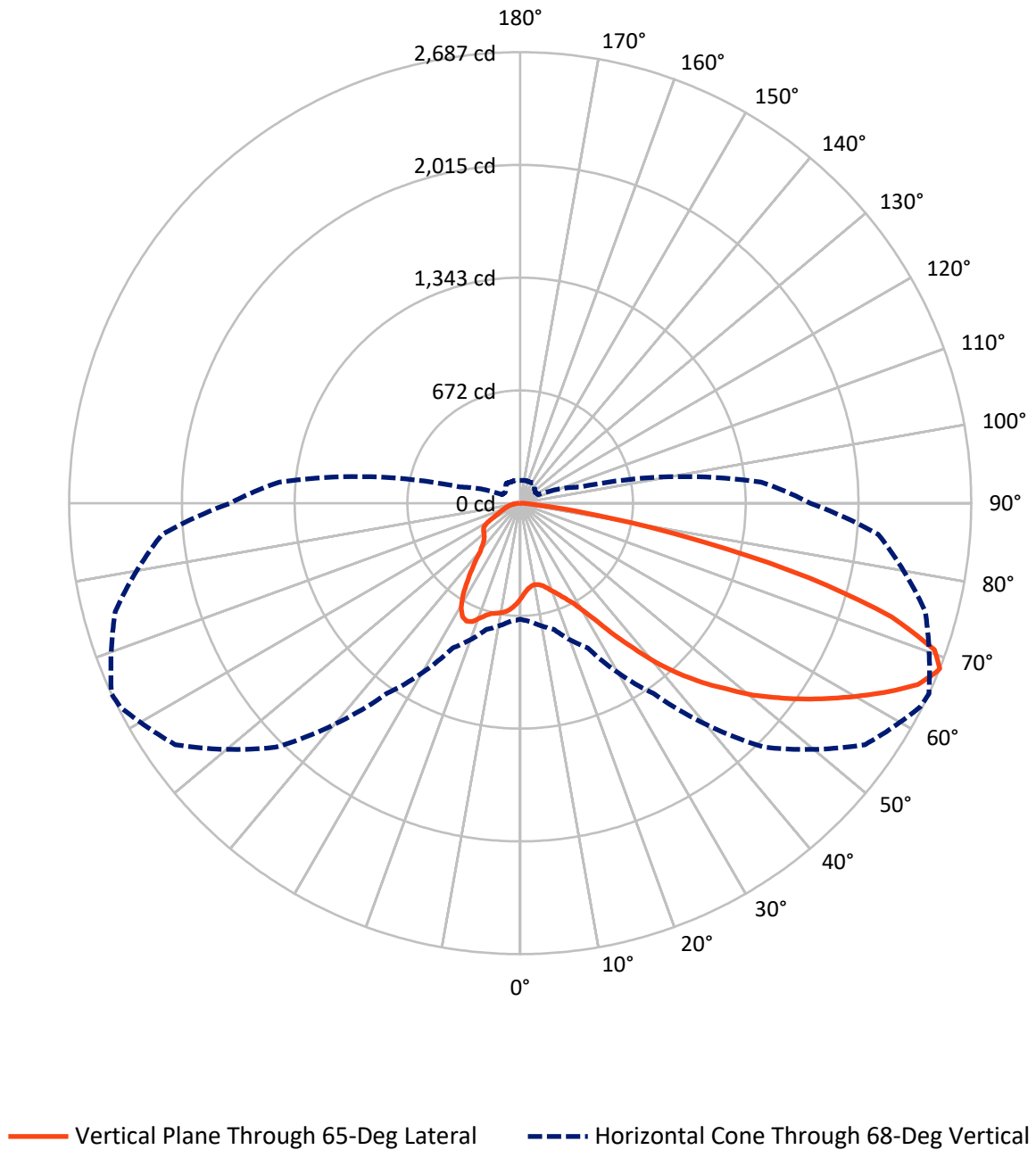


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

REPORT NUMBER: P1209947

CATALOG NUMBER: ARCH1-30-727-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1209947

CATALOG NUMBER: ARCH1-30-727-U-T3RE

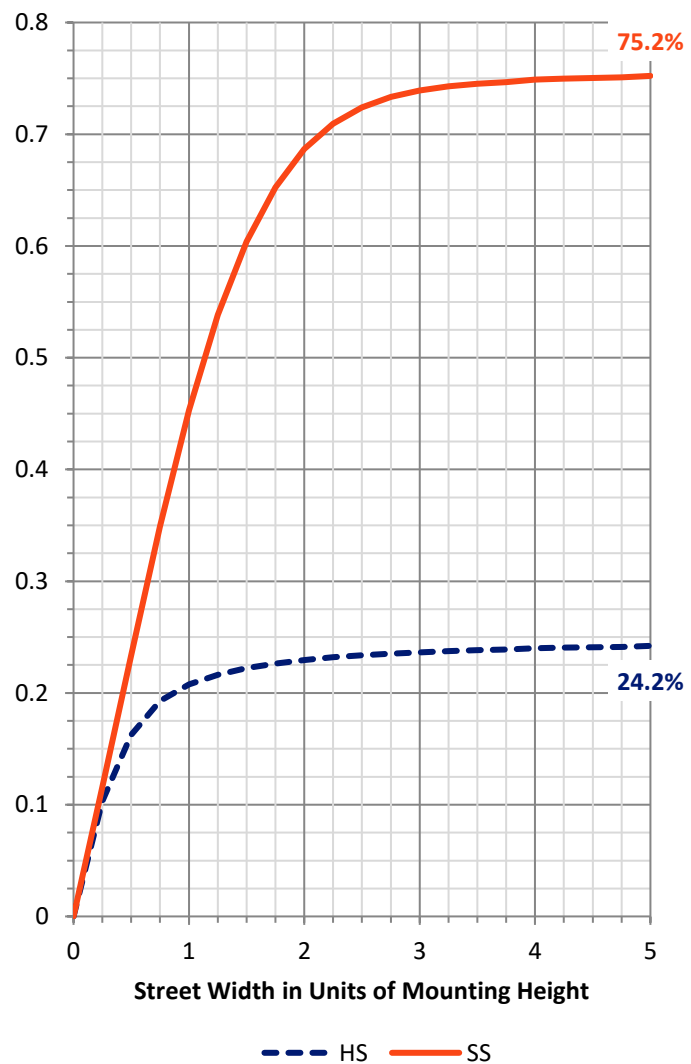
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.8	0.0	1086.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	3346.2	0.0	3346.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	4433.0	0.0	4433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.2
10°-20°	176.3	4.0
20°-30°	319.0	7.2
30°-40°	501.9	11.3
40°-50°	747.5	16.9
50°-60°	980.6	22.1
60°-70°	1072.3	24.2
70°-80°	530.6	12.0
80°-90°	50.6	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°	4433.0	100.0
0°-180°	4433.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209947

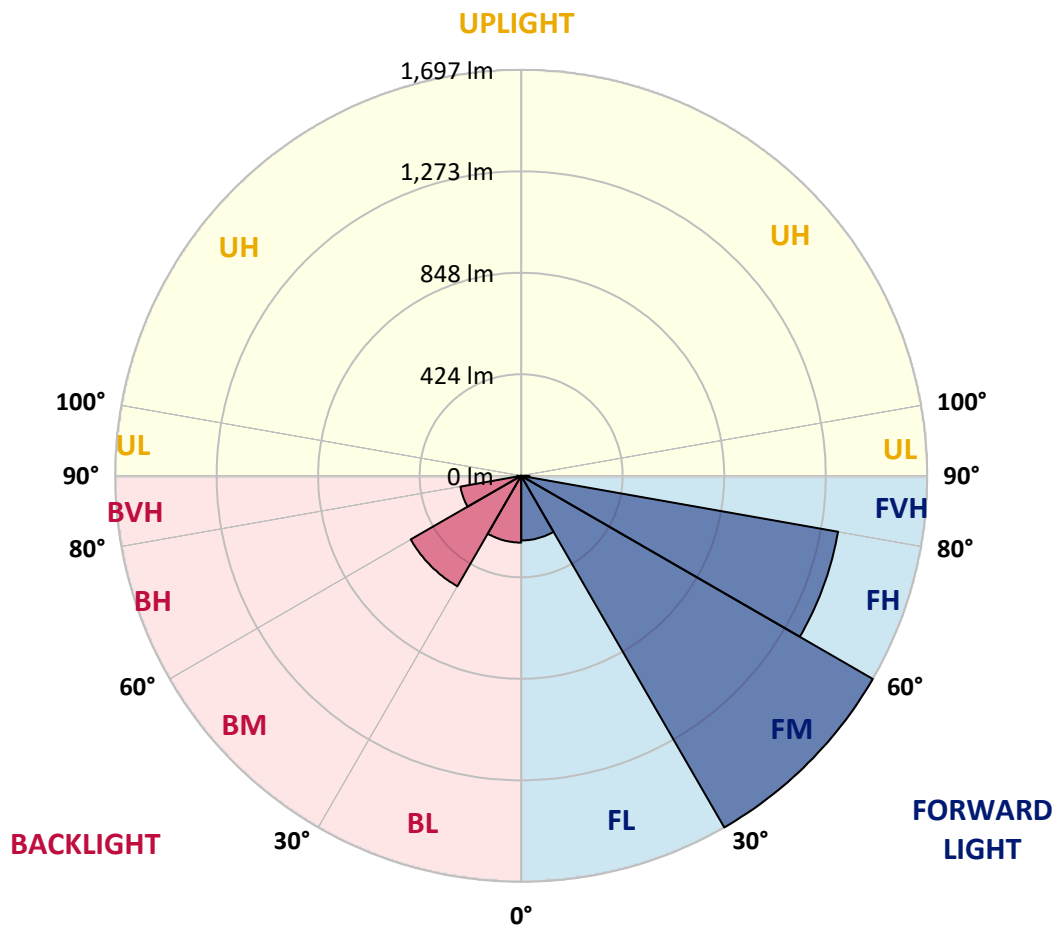
CATALOG NUMBER: ARCH1-30-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.2	6.1			
FM	(30°-60°)	1696.9	38.3			
FH	(60°-80°)	1345.0	30.3			G1/1800
FVH	(80°-90°)	34.0	0.8			G1/100
BL	(0°-30°)	279.2	6.3	B1/500		
BM	(30°-60°)	533.1	12.0	B1/1000		
BH	(60°-80°)	258.0	5.8	B1/500		G1/500
BVH	(80°-90°)	16.6	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 III Short



REPORT NUMBER: P1209947

CATALOG NUMBER: ARCH1-30-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	494.5	493.3	496.2	499.0	505.3	512.8	523.0	531.6	532.8	548.8	561.3
5°	465.3	463.6	466.4	469.9	472.7	481.9	492.7	505.3	510.5	533.9	560.8
7.5°	468.2	467.6	468.7	467.6	467.6	471.6	479.0	491.6	497.3	525.3	563.6
10°	484.7	485.9	486.5	483.0	479.6	477.9	480.2	488.7	492.7	525.9	576.2
12.5°	512.2	513.9	514.5	508.2	503.6	496.2	492.2	495.6	498.5	531.6	593.9
15°	549.3	550.5	546.5	542.5	531.0	521.9	512.2	509.3	510.5	543.6	613.9
17.5°	592.8	591.1	591.1	581.3	566.5	552.2	536.2	533.9	533.9	563.1	642.5
20°	640.2	641.9	636.8	623.6	608.8	586.5	570.5	560.2	561.3	585.3	677.4
22.5°	708.8	711.7	698.0	679.1	656.2	630.5	607.6	591.1	591.6	614.5	713.4
25°	782.6	783.7	775.1	750.0	719.1	682.5	652.2	631.1	630.5	647.1	759.7
27.5°	858.0	863.2	846.0	822.0	793.4	747.7	707.7	679.1	674.5	696.8	817.4
30°	935.8	942.0	925.5	902.0	866.6	827.7	780.3	747.1	744.3	774.0	894.6
32.5°	1014.1	1015.8	1002.6	983.2	951.2	914.6	876.3	839.7	836.9	885.5	994.6
35°	1078.1	1083.2	1074.1	1069.5	1046.1	1012.4	975.2	954.0	961.5	1023.8	1124.4
37.5°	1155.3	1160.4	1150.1	1149.0	1141.5	1112.4	1086.7	1088.4	1095.8	1180.4	1261.0
40°	1266.7	1272.4	1246.1	1234.7	1234.7	1206.1	1197.6	1238.1	1247.9	1334.8	1403.3
42.5°	1361.0	1370.2	1354.8	1347.3	1325.0	1305.0	1315.3	1372.5	1389.1	1482.2	1527.4
45°	1406.8	1413.6	1431.9	1453.7	1431.9	1397.1	1435.9	1500.5	1524.0	1618.3	1651.4
47.5°	1431.4	1437.6	1458.8	1517.1	1532.0	1502.8	1557.7	1638.3	1654.3	1753.2	1769.8
50°	1434.8	1454.8	1482.2	1540.5	1608.6	1612.6	1680.0	1778.3	1797.2	1885.8	1873.8
52.5°	1406.8	1414.8	1471.4	1569.7	1645.1	1713.7	1813.2	1912.7	1926.4	2010.4	1965.8
55°	1361.0	1372.5	1429.1	1562.8	1680.6	1809.8	1948.7	2044.7	2060.1	2131.6	2051.0
57.5°	1319.9	1325.6	1386.2	1542.8	1716.0	1905.8	2069.3	2182.5	2192.8	2237.9	2113.9
60°	1274.2	1280.4	1341.0	1500.0	1742.3	1978.4	2195.1	2321.4	2330.5	2350.0	2187.0
62.5°	1155.8	1172.4	1248.4	1429.1	1735.5	2061.3	2329.4	2458.6	2470.0	2448.9	2244.8
65°	938.6	962.1	1055.2	1268.4	1671.4	2115.0	2439.1	2584.9	2604.3	2523.2	2260.2
67.5°	728.8	745.4	820.3	1006.6	1446.8	2088.2	2510.0	2671.8	2677.5	2511.2	2174.5
68°	691.1	707.7	779.1	951.8	1384.5	2056.1	2508.3	2674.1	2686.7	2498.0	2141.3
70°	528.8	547.6	615.6	754.0	1115.8	1852.6	2403.7	2619.2	2617.5	2339.1	1935.5
72.5°	330.4	341.3	388.1	475.6	738.0	1409.6	2040.1	2309.9	2314.5	1907.0	1484.5
75°	209.8	209.8	207.5	230.4	378.4	803.1	1516.5	1778.3	1781.8	1335.3	935.8
77.5°	182.3	177.2	152.6	129.2	150.9	312.1	897.5	1148.4	1129.5	719.1	444.2
80°	153.8	145.2	125.2	104.0	97.2	97.7	344.7	583.1	557.9	258.9	147.5
82.5°	110.9	103.5	94.3	81.7	74.9	58.3	72.0	168.6	164.6	74.9	48.0
85°	60.0	54.3	53.2	53.7	45.2	36.0	30.3	37.2	37.2	32.6	27.4
87.5°	21.2	15.4	18.3	20.6	17.7	14.9	12.0	14.3	14.9	14.3	13.1
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: P1209947

CATALOG NUMBER: ARCH1-30-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	568.8	574.5	588.2	600.2	608.8	616.2	620.2	621.9	625.9	626.5	625.4
5°	573.3	588.2	608.8	626.5	636.2	640.2	641.4	641.9	640.2	641.4	640.2
7.5°	585.3	604.2	633.4	648.8	650.5	644.2	644.8	642.5	644.8	647.1	647.1
10°	603.6	627.6	655.1	660.8	653.4	649.9	656.8	670.5	675.1	681.4	681.4
12.5°	627.6	656.2	675.7	670.5	663.7	675.1	695.1	708.8	713.4	715.7	714.0
15°	655.1	686.0	695.7	678.5	691.1	715.7	722.5	714.5	703.1	698.0	700.8
17.5°	690.0	715.7	710.0	698.5	727.1	730.5	708.2	682.5	664.2	657.4	661.9
20°	726.5	748.8	722.5	727.7	745.4	708.8	666.5	633.4	617.4	614.5	619.1
22.5°	765.4	779.7	735.1	761.4	735.1	660.8	609.9	592.8	588.8	593.4	597.4
25°	809.4	807.7	756.8	771.7	696.8	601.9	571.6	570.5	570.5	573.3	579.1
27.5°	859.2	832.3	778.6	758.0	630.5	553.3	547.6	548.2	546.5	547.0	549.9
30°	916.9	865.4	802.6	712.8	556.2	516.8	514.5	512.8	508.7	507.6	508.7
32.5°	989.5	900.3	827.1	638.5	491.0	479.0	477.9	468.7	459.0	457.9	461.9
35°	1081.5	963.8	839.7	545.3	437.3	436.7	432.7	418.4	405.9	405.9	403.0
37.5°	1186.7	1045.5	844.9	454.4	392.7	395.6	384.1	365.8	356.1	350.4	352.1
40°	1294.2	1138.7	844.3	375.0	353.8	354.4	345.8	323.5	299.5	285.2	288.7
42.5°	1397.6	1223.3	829.4	332.7	322.4	320.7	313.8	283.5	263.5	252.1	252.7
45°	1480.5	1310.7	806.6	307.5	293.8	296.7	281.2	262.9	244.7	234.4	233.8
47.5°	1563.4	1377.1	770.0	292.1	272.7	267.5	261.2	248.7	234.9	223.5	224.1
50°	1638.9	1433.6	735.7	281.8	253.2	240.1	241.2	233.8	221.8	211.5	210.9
52.5°	1692.0	1470.8	716.8	276.1	229.8	215.5	219.5	215.5	204.1	196.6	196.1
55°	1745.2	1499.4	723.1	268.7	204.1	192.6	199.5	198.4	192.1	189.8	190.4
57.5°	1788.1	1521.1	745.4	254.9	179.5	172.6	184.1	180.6	176.1	176.6	176.6
60°	1829.8	1549.1	771.7	223.5	158.3	158.9	169.8	163.5	160.6	165.8	166.3
62.5°	1873.2	1579.4	750.0	177.8	140.0	144.1	156.6	151.5	152.6	160.1	162.3
65°	1868.1	1576.6	611.1	145.8	124.0	132.0	150.9	149.2	149.8	152.6	153.8
67.5°	1762.9	1475.9	420.1	124.0	112.6	122.3	146.3	139.5	140.0	138.3	138.9
68°	1727.5	1440.5	370.4	120.6	110.3	120.0	144.1	137.8	138.3	136.6	136.0
70°	1534.2	1233.6	234.4	106.3	102.3	113.8	132.6	130.3	129.8	128.6	128.6
72.5°	1169.6	910.6	123.5	92.0	93.2	104.0	118.3	122.9	120.0	120.6	124.0
75°	774.6	547.6	85.7	78.9	81.7	89.2	105.2	114.3	111.5	113.2	111.5
77.5°	409.9	295.0	68.6	66.9	66.9	72.0	86.9	101.2	101.2	100.0	98.3
80°	134.3	104.0	54.9	52.6	53.7	56.6	69.7	82.9	84.6	82.3	81.2
82.5°	45.2	48.0	41.2	38.3	39.4	41.7	52.6	63.5	64.0	59.4	58.3
85°	28.0	32.0	25.7	25.2	25.2	25.7	32.0	34.9	32.0	28.6	29.7
87.5°	13.1	16.0	12.0	10.3	8.6	7.4	5.7	2.3	2.3	1.1	1.1
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)