

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: P799110

Luminaire Tested: **ARCH1-60-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4750 lumens
Efficiency: N/A
Efficacy: 79.2 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): 60
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



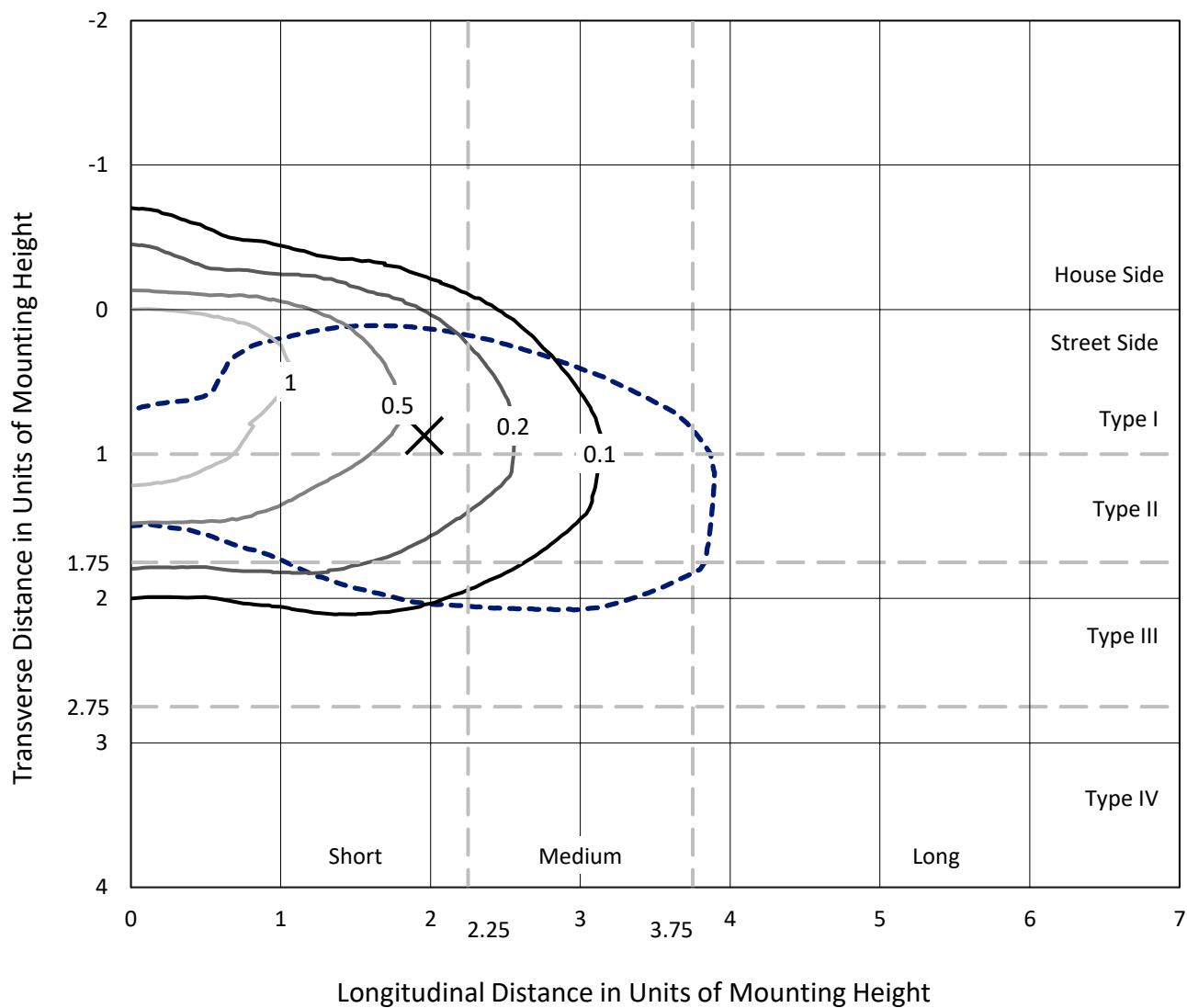
REPORT NUMBER: P799110

CATALOG NUMBER: ARCH1-60-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

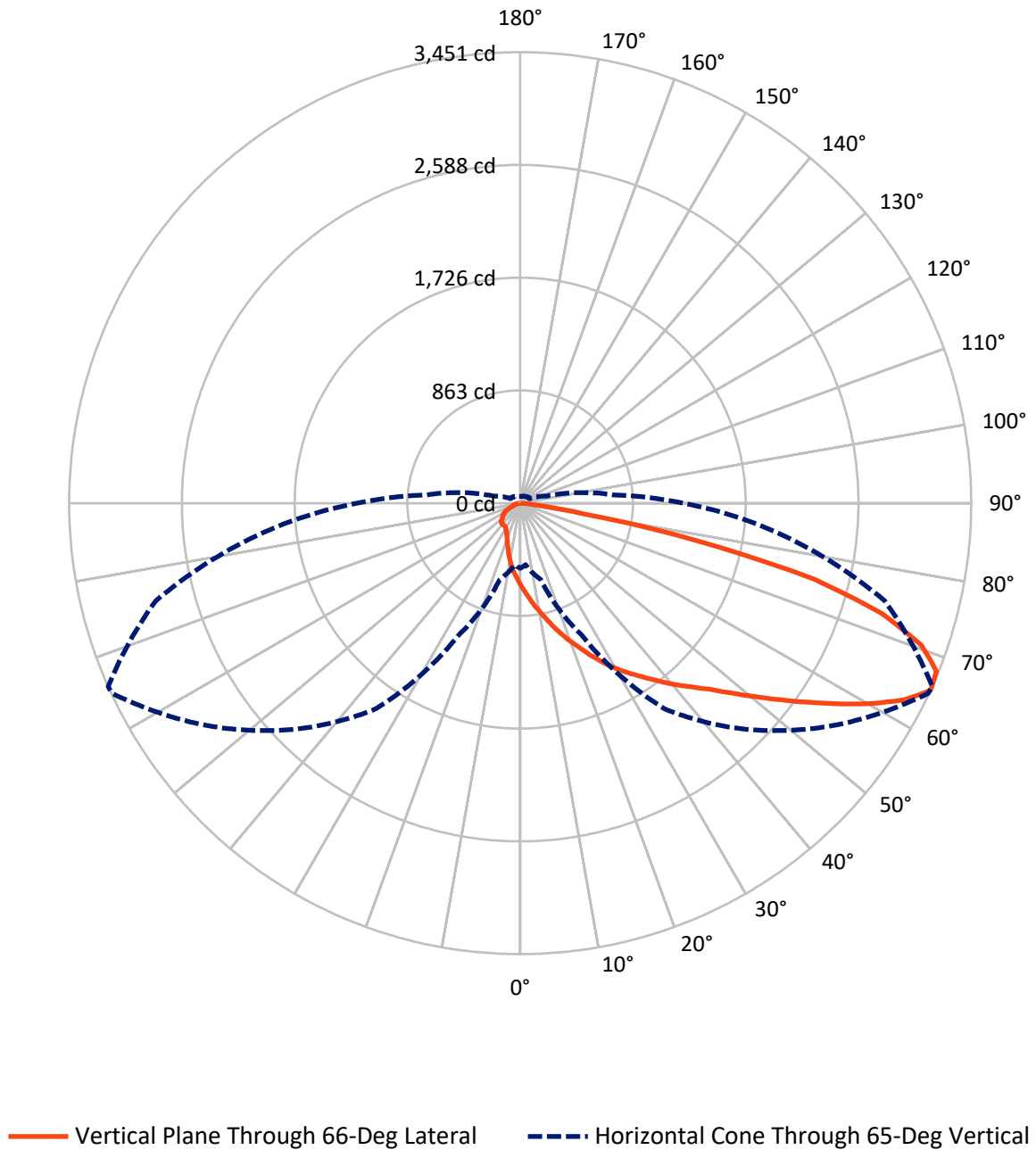


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

REPORT NUMBER: P799110

CATALOG NUMBER: ARCH1-60-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799110

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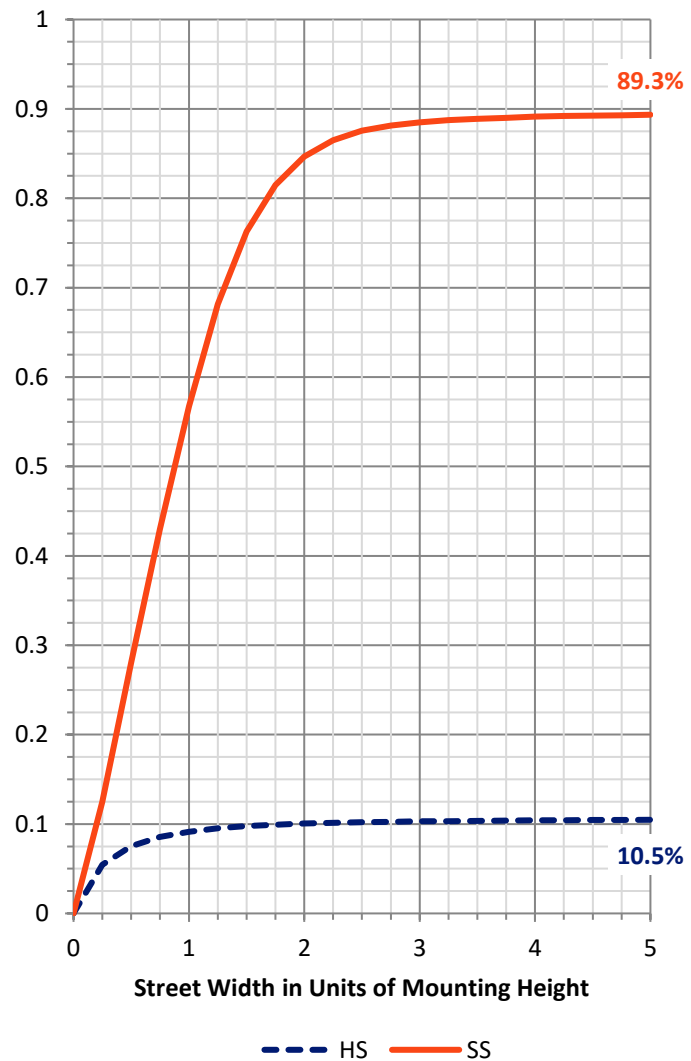
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.4	0.0	502.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4247.6	0.0	4247.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	4750.0	0.0	4750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.3
10°-20°	202.2	4.3
20°-30°	365.9	7.7
30°-40°	572.2	12.0
40°-50°	868.0	18.3
50°-60°	1102.8	23.2
60°-70°	1030.4	21.7
70°-80°	512.1	10.8
80°-90°	34.4	0.7
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°	4750.0	100.0
0°-180°	4750.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799110

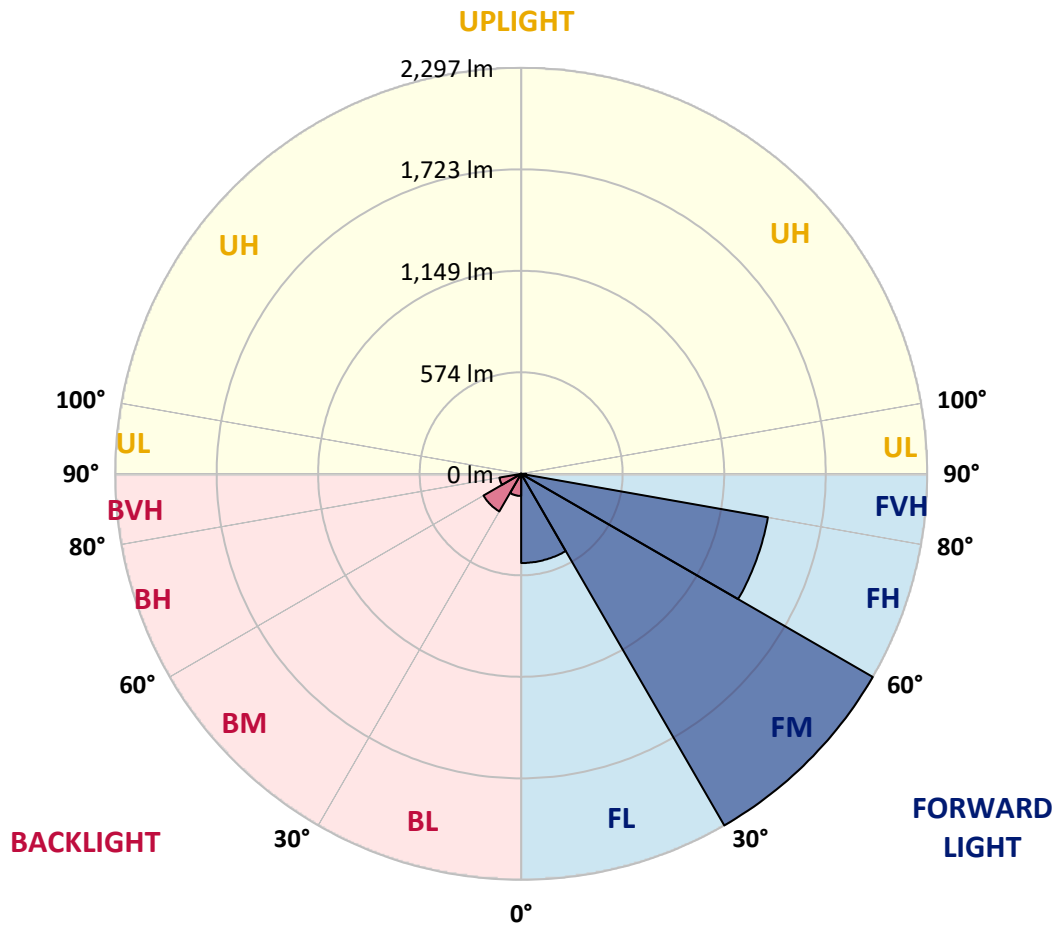
CATALOG NUMBER: ARCH1-60-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.7	10.6			
FM	(30°-60°)	2297.2	48.4			
FH	(60°-80°)	1417.4	29.8			G1/1800
FVH	(80°-90°)	28.3	0.6			G1/100
BL	(0°-30°)	125.5	2.6	B1/500		
BM	(30°-60°)	245.7	5.2	B1/1000		
BH	(60°-80°)	125.1	2.6	B1/500		G1/500
BVH	(80°-90°)	6.1	0.1			G0/10
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: P799110

CATALOG NUMBER: ARCH1-60-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	734.2	740.2	743.2	744.2	721.3	711.3	701.4	678.4	673.5	660.5	643.6
5°	863.8	871.7	869.7	865.7	837.8	806.0	780.1	737.2	730.3	699.4	661.5
7.5°	991.3	998.2	996.3	981.3	950.4	905.6	862.8	800.0	790.0	740.2	679.4
10°	1097.9	1103.8	1102.9	1087.9	1051.0	996.3	944.4	860.8	848.8	778.1	694.4
12.5°	1185.5	1193.5	1192.5	1182.6	1149.7	1089.9	1031.1	930.5	915.6	823.9	715.3
15°	1254.3	1264.2	1264.2	1260.3	1237.3	1187.5	1120.8	1007.2	989.3	876.7	741.2
17.5°	1296.1	1304.1	1311.1	1318.0	1302.1	1264.2	1203.5	1083.9	1065.0	928.5	768.1
20°	1318.0	1326.0	1331.0	1345.9	1348.9	1330.0	1282.2	1159.6	1139.7	987.3	799.0
22.5°	1353.9	1360.9	1361.9	1374.8	1380.8	1385.8	1355.9	1234.4	1218.4	1052.0	833.9
25°	1413.7	1421.7	1418.7	1424.6	1425.6	1431.6	1428.6	1320.0	1304.1	1125.8	875.7
27.5°	1490.4	1500.4	1498.4	1492.4	1483.4	1478.4	1491.4	1406.7	1391.8	1199.5	918.5
30°	1573.1	1585.0	1582.1	1570.1	1546.2	1525.3	1543.2	1488.4	1474.5	1275.2	966.4
32.5°	1656.8	1670.7	1669.7	1649.8	1609.0	1573.1	1600.0	1565.1	1555.2	1356.9	1018.2
35°	1711.6	1729.5	1727.5	1715.5	1662.7	1631.9	1664.7	1643.8	1636.8	1456.5	1092.9
37.5°	1800.2	1819.2	1802.2	1772.3	1711.6	1695.6	1735.5	1732.5	1727.5	1562.1	1171.6
40°	2015.4	2043.3	1998.5	1875.9	1776.3	1762.4	1819.2	1831.1	1826.1	1666.7	1242.3
42.5°	2240.6	2282.4	2212.7	2043.3	1893.9	1843.1	1910.8	1927.8	1921.8	1756.4	1306.1
45°	2377.1	2395.0	2325.3	2193.8	2102.1	1940.7	2008.4	2036.3	2031.4	1864.0	1387.8
47.5°	2488.6	2481.7	2402.0	2313.3	2330.2	2078.2	2119.0	2173.8	2169.8	1982.5	1477.4
50°	2512.6	2496.6	2464.7	2408.9	2453.8	2217.7	2235.6	2330.2	2326.3	2114.1	1568.1
52.5°	2344.2	2323.3	2409.9	2456.8	2441.8	2319.3	2364.1	2501.6	2499.6	2256.5	1654.8
55°	1923.8	1906.8	2140.0	2382.0	2428.9	2391.0	2506.6	2679.9	2690.9	2407.9	1733.5
57.5°	1513.3	1495.4	1724.5	2194.7	2381.0	2456.8	2673.0	2884.2	2898.1	2572.3	1808.2
60°	1206.5	1179.6	1354.9	1899.9	2291.4	2507.6	2833.3	3108.3	3110.3	2722.8	1854.0
62.5°	819.9	790.0	984.3	1526.3	2141.0	2515.5	2956.9	3301.6	3309.6	2835.3	1862.0
65°	498.1	473.2	604.7	1114.8	1918.8	2447.8	2958.9	3444.1	3451.0	2887.1	1814.2
67.5°	288.9	279.0	345.7	694.4	1550.2	2265.5	2834.3	3422.1	3435.1	2865.2	1705.6
70°	168.4	167.4	192.3	343.7	1093.9	1903.8	2556.4	3237.8	3256.8	2750.7	1539.2
72.5°	123.5	125.5	135.5	184.3	633.6	1370.8	2164.9	2867.2	2896.1	2526.5	1302.1
75°	97.6	98.6	107.6	125.5	332.7	775.1	1621.9	2301.3	2324.3	2127.0	1017.2
77.5°	72.7	74.7	81.7	88.7	154.4	355.7	912.6	1417.7	1379.8	1167.6	491.2
80°	52.8	57.8	60.8	63.8	81.7	137.5	274.0	494.1	490.2	510.1	232.1
82.5°	33.9	37.9	40.8	42.8	48.8	65.8	81.7	110.6	119.6	198.3	92.7
85°	14.9	16.9	18.9	22.9	20.9	22.9	33.9	21.9	18.9	29.9	16.9
87.5°	0.0	0.0	3.0	5.0	4.0	2.0	6.0	4.0	3.0	3.0	3.0
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: P799110

CATALOG NUMBER: ARCH1-60-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
2.5°	634.6	623.7	600.7	578.8	565.9	548.9	534.0	520.0	519.0	515.1	508.1
5°	642.6	621.7	578.8	538.0	507.1	474.2	446.3	424.4	416.4	410.5	402.5
7.5°	650.6	617.7	553.9	494.1	445.3	399.5	366.6	336.7	327.8	319.8	314.8
10°	653.5	610.7	525.0	445.3	381.6	332.7	297.9	276.0	268.0	264.0	261.0
12.5°	662.5	606.7	498.1	399.5	325.8	280.9	256.0	243.1	240.1	237.1	234.1
15°	674.5	606.7	471.2	354.7	281.9	246.1	231.1	222.2	220.2	219.2	217.2
17.5°	687.4	606.7	445.3	316.8	250.1	223.2	212.2	207.2	206.2	205.2	204.2
20°	705.3	607.7	417.4	283.9	227.1	206.2	197.3	191.3	190.3	189.3	189.3
22.5°	723.3	609.7	390.5	259.0	212.2	193.3	182.3	176.3	174.3	174.3	174.3
25°	746.2	615.7	365.6	238.1	199.3	181.3	167.4	162.4	161.4	161.4	160.4
27.5°	773.1	622.7	343.7	222.2	186.3	167.4	153.4	148.4	146.4	146.4	145.5
30°	802.0	629.6	325.8	210.2	173.3	153.4	140.5	134.5	132.5	133.5	132.5
32.5°	833.9	639.6	311.8	202.2	161.4	141.5	129.5	122.5	121.5	121.5	120.5
35°	887.7	667.5	309.8	198.3	151.4	132.5	120.5	113.6	112.6	112.6	111.6
37.5°	945.4	699.4	318.8	196.3	143.5	124.5	113.6	106.6	105.6	105.6	105.6
40°	994.3	723.3	328.8	196.3	138.5	117.6	107.6	101.6	101.6	101.6	101.6
42.5°	1027.1	725.3	326.8	196.3	134.5	112.6	103.6	97.6	97.6	98.6	97.6
45°	1076.0	735.2	318.8	193.3	131.5	108.6	99.6	94.6	93.6	94.6	94.6
47.5°	1133.7	753.2	310.8	181.3	130.5	104.6	96.6	90.7	89.7	90.7	89.7
50°	1188.5	769.1	306.8	165.4	128.5	100.6	92.7	86.7	85.7	86.7	85.7
52.5°	1234.4	776.1	299.9	154.4	123.5	96.6	88.7	82.7	80.7	81.7	81.7
55°	1271.2	774.1	289.9	145.5	114.6	92.7	83.7	78.7	75.7	75.7	74.7
57.5°	1305.1	775.1	280.9	136.5	104.6	86.7	79.7	73.7	69.7	68.7	67.7
60°	1318.0	770.1	265.0	124.5	94.6	81.7	74.7	67.7	63.8	62.8	61.8
62.5°	1300.1	752.2	244.1	103.6	85.7	75.7	69.7	62.8	58.8	57.8	56.8
65°	1249.3	718.3	212.2	81.7	77.7	68.7	63.8	58.8	53.8	51.8	50.8
67.5°	1162.6	669.5	172.4	65.8	68.7	62.8	59.8	53.8	47.8	45.8	44.8
70°	1039.1	604.7	129.5	55.8	60.8	55.8	53.8	47.8	42.8	40.8	39.9
72.5°	865.7	500.1	90.7	47.8	52.8	48.8	46.8	42.8	37.9	34.9	34.9
75°	654.5	358.7	59.8	40.8	43.8	41.8	38.9	35.9	32.9	30.9	29.9
77.5°	281.9	139.5	36.9	30.9	35.9	34.9	30.9	28.9	27.9	25.9	25.9
80°	121.5	56.8	22.9	22.9	25.9	24.9	23.9	21.9	21.9	20.9	19.9
82.5°	44.8	22.9	13.9	16.9	18.9	16.9	16.9	16.9	16.9	15.9	15.9
85°	11.0	7.0	7.0	10.0	11.0	10.0	11.0	10.0	10.0	10.0	9.0
87.5°	3.0	3.0	4.0	4.0	4.0	4.0	4.0	3.0	0.0	0.0	0.0
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)