

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: P799108

Luminaire Tested: **ARCH1-60-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4571 lumens
Efficiency: N/A
Efficacy: 76.2 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): 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

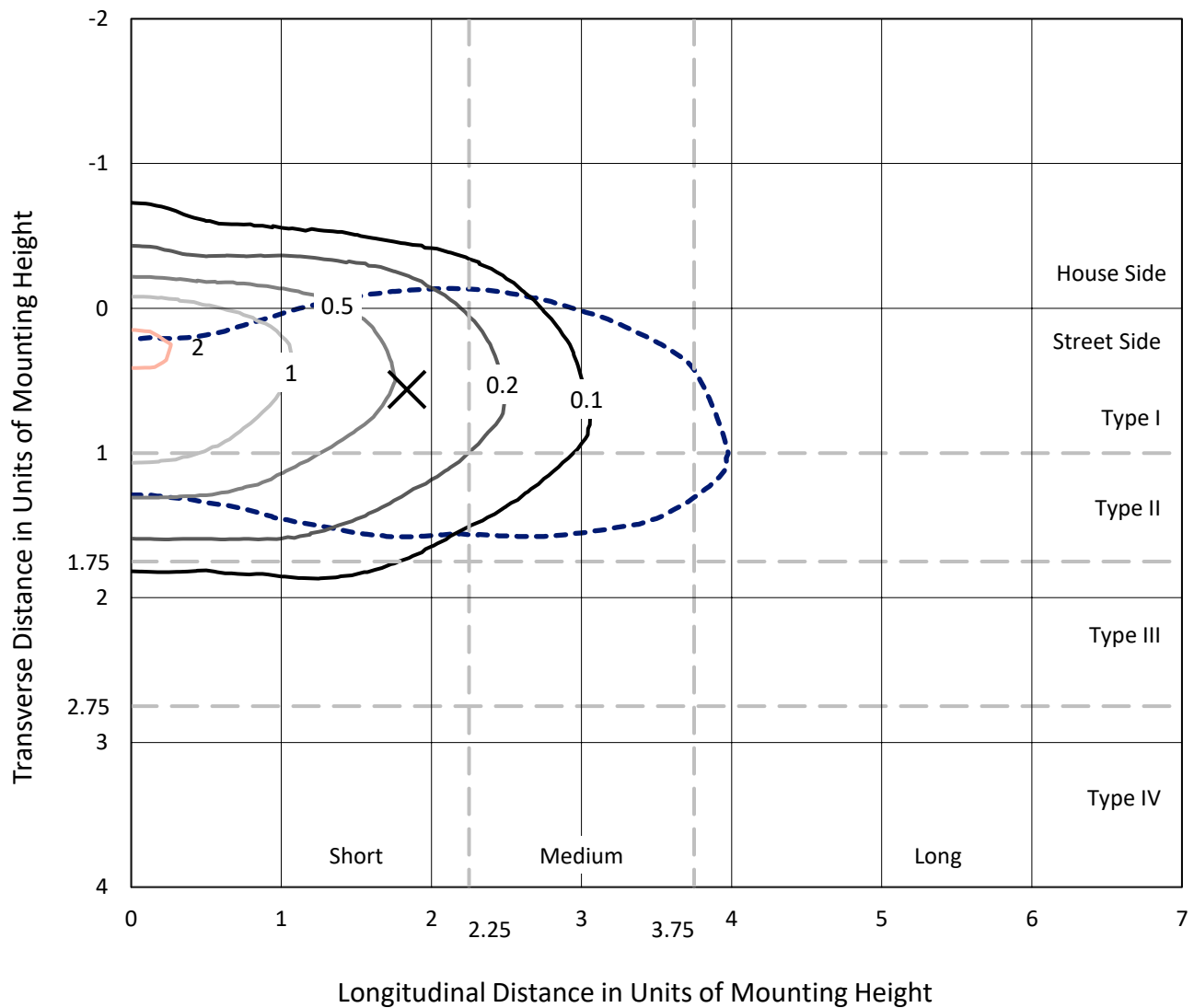


REPORT NUMBER: P799108

CATALOG NUMBER: ARCH1-60-727-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

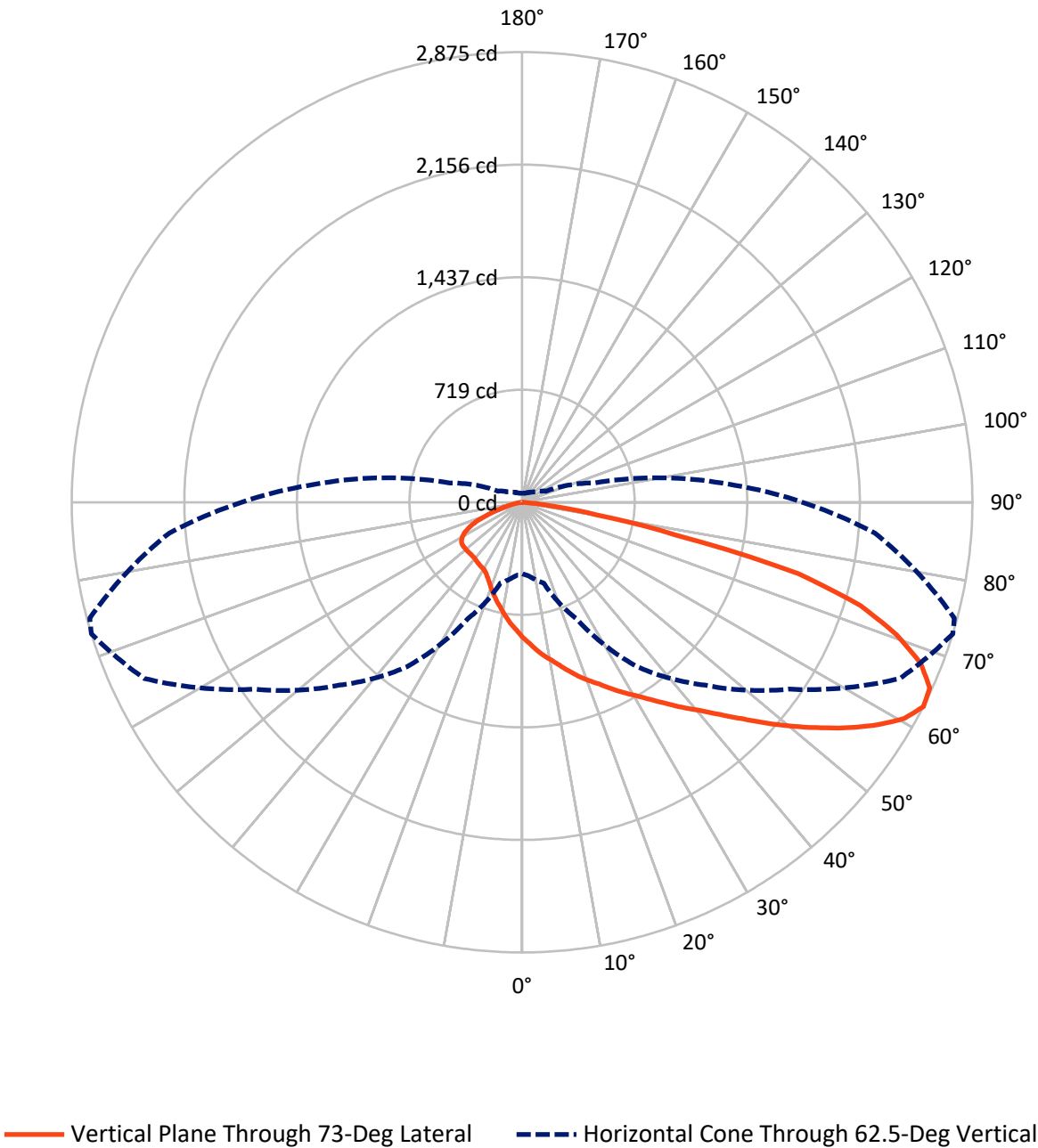
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

REPORT NUMBER: P799108
CATALOG NUMBER: ARCH1-60-727-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799108

CATALOG NUMBER: ARCH1-60-727-U-T2U-HSS

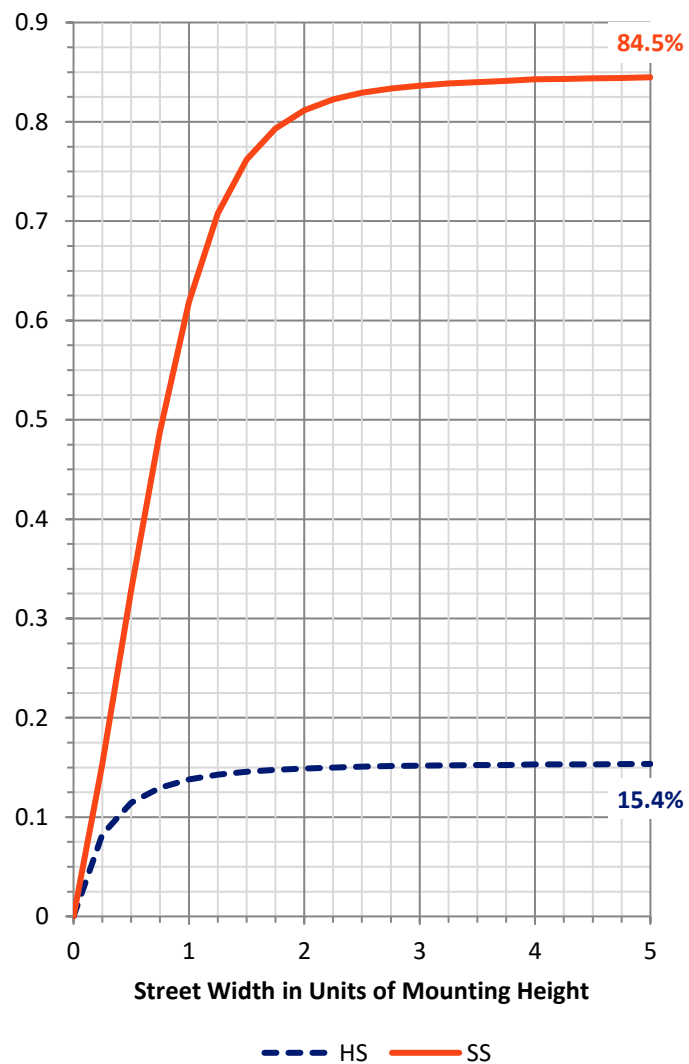
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.6	0.0	708.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3862.4	0.0	3862.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	4571.0	0.0	4571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.8
10°-20°	252.3	5.5
20°-30°	420.0	9.2
30°-40°	633.7	13.9
40°-50°	885.7	19.4
50°-60°	978.3	21.4
60°-70°	852.3	18.6
70°-80°	430.5	9.4
80°-90°	34.6	0.8
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°	4571.0	100.0
0°-180°	4571.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799108

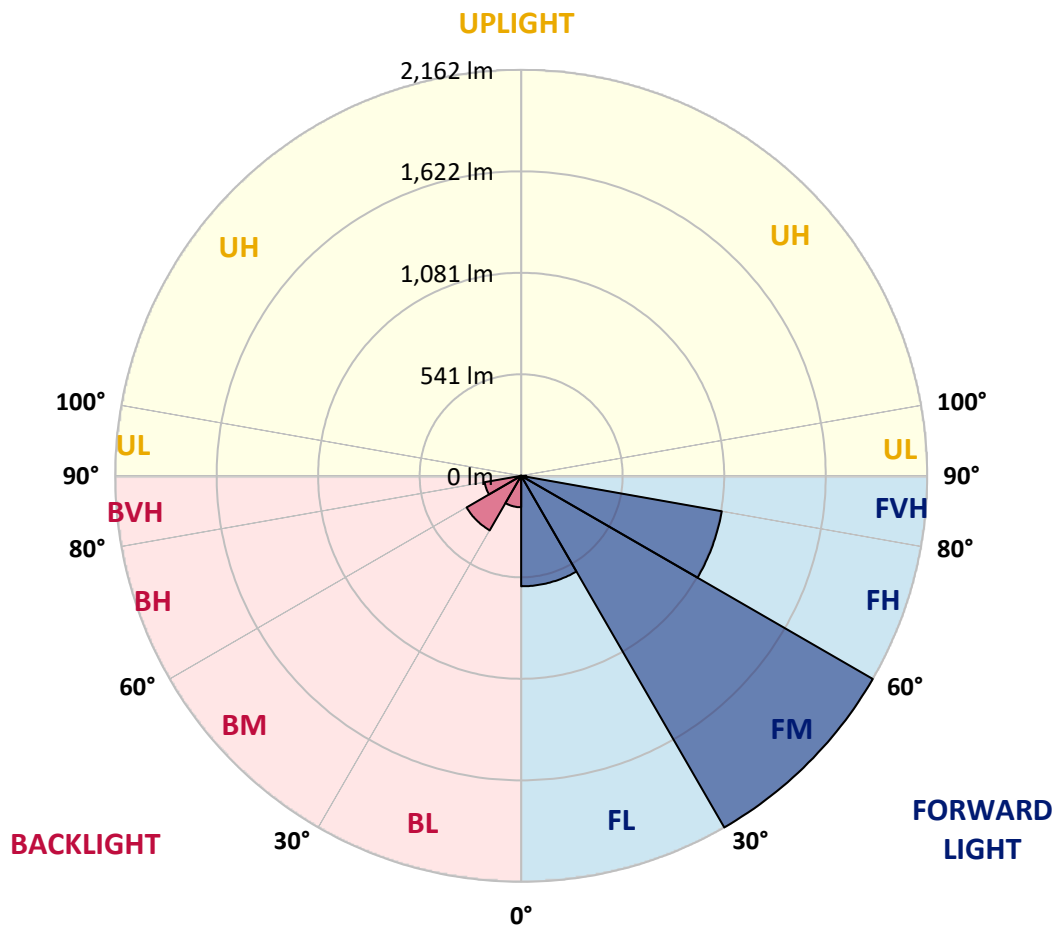
CATALOG NUMBER: ARCH1-60-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.4	12.9			
FM	(30°-60°)	2162.3	47.3			
FH	(60°-80°)	1085.0	23.7			G1/1800
FVH	(80°-90°)	26.7	0.6			G1/100
BL	(0°-30°)	167.5	3.7	B1/500		
BM	(30°-60°)	335.5	7.3	B1/1000		
BH	(60°-80°)	197.8	4.3	B1/500		G1/500
BVH	(80°-90°)	7.8	0.2			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 II Short



REPORT NUMBER: P799108

CATALOG NUMBER: ARCH1-60-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5
2.5°	985.0	996.0	990.0	994.0	974.1	961.1	946.2	917.3	901.4	899.4	880.5
5°	1129.5	1141.4	1131.5	1128.5	1093.6	1063.7	1029.9	979.1	945.2	939.2	897.4
7.5°	1273.9	1284.8	1272.9	1263.9	1217.1	1164.3	1114.5	1039.8	987.0	977.1	911.3
10°	1375.5	1385.4	1376.5	1367.5	1318.7	1264.9	1194.2	1096.6	1024.9	1009.0	920.3
12.5°	1452.2	1458.2	1454.2	1446.2	1400.4	1342.6	1274.9	1160.3	1067.7	1047.8	934.3
15°	1514.9	1524.9	1519.9	1513.9	1470.1	1412.3	1347.6	1227.1	1117.5	1092.6	955.2
17.5°	1556.8	1563.7	1564.7	1564.7	1525.9	1469.1	1406.4	1287.8	1167.3	1135.4	975.1
20°	1575.7	1583.6	1588.6	1596.6	1564.7	1515.9	1452.2	1339.6	1214.1	1178.3	994.0
22.5°	1584.6	1591.6	1604.6	1622.5	1596.6	1555.8	1497.0	1387.4	1260.9	1223.1	1015.9
25°	1591.6	1600.6	1619.5	1653.4	1635.4	1600.6	1549.8	1442.2	1316.7	1277.9	1047.8
27.5°	1610.5	1621.5	1639.4	1680.3	1658.3	1641.4	1605.6	1501.0	1375.5	1335.6	1086.6
30°	1676.3	1685.2	1684.2	1710.1	1683.2	1678.3	1653.4	1557.8	1432.3	1392.4	1132.5
32.5°	1795.8	1804.8	1782.8	1772.9	1714.1	1715.1	1705.2	1618.5	1500.0	1459.1	1185.2
35°	1924.3	1934.2	1905.4	1888.4	1789.8	1760.9	1765.9	1694.2	1575.7	1534.8	1251.0
37.5°	2038.8	2050.8	2025.9	2001.0	1901.4	1834.6	1833.6	1778.9	1662.3	1620.5	1323.7
40°	2101.6	2115.5	2130.5	2116.5	2011.9	1938.2	1906.4	1865.5	1748.0	1705.2	1402.4
42.5°	2131.5	2170.3	2197.2	2188.2	2102.6	2027.9	1990.0	1956.2	1852.6	1810.7	1496.0
45°	2047.8	2048.8	2105.6	2154.4	2138.4	2088.6	2081.7	2057.7	1972.1	1932.3	1601.6
47.5°	1943.2	1935.2	1975.1	2061.7	2106.6	2119.5	2160.3	2170.3	2108.5	2068.7	1709.1
50°	1692.2	1697.2	1826.7	1951.2	2038.8	2122.5	2216.1	2285.8	2249.0	2211.1	1822.7
52.5°	1376.5	1388.4	1536.8	1810.7	1949.2	2092.6	2249.0	2401.4	2392.4	2356.5	1936.2
55°	1103.6	1122.5	1279.9	1576.7	1834.6	2025.9	2262.9	2506.9	2540.8	2507.9	2047.8
57.5°	843.6	863.5	996.0	1300.8	1688.2	1917.3	2253.0	2599.6	2679.3	2658.3	2150.4
60°	635.5	655.4	740.0	1054.8	1505.0	1795.8	2203.2	2660.3	2803.8	2781.8	2225.1
62.5°	455.2	471.1	533.9	820.7	1281.9	1651.4	2080.7	2661.3	2874.5	2856.5	2260.9
65°	327.7	327.7	378.5	585.7	1072.7	1478.1	1895.4	2538.8	2859.5	2854.6	2236.0
67.5°	236.1	238.0	278.9	409.4	855.6	1267.9	1655.4	2320.7	2744.0	2768.9	2146.4
70°	167.3	172.3	191.2	285.9	646.4	1001.0	1398.4	2034.8	2535.8	2579.7	1973.1
72.5°	129.5	132.5	145.4	199.2	472.1	744.0	1114.5	1716.1	2257.9	2307.7	1737.0
75°	99.6	102.6	112.5	146.4	338.6	521.9	791.8	1331.7	1820.7	1909.3	1395.4
77.5°	72.7	76.7	83.7	106.6	197.2	331.7	480.1	749.0	1005.0	1046.8	731.1
80°	33.9	38.8	48.8	68.7	106.6	156.4	170.3	288.8	483.1	505.0	396.4
82.5°	18.9	23.9	27.9	41.8	53.8	55.8	57.8	72.7	182.3	201.2	166.3
85°	9.0	12.0	12.9	17.9	17.9	15.9	18.9	13.9	29.9	35.9	34.9
87.5°	0.0	1.0	2.0	5.0	4.0	3.0	3.0	3.0	3.0	4.0	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: P799108

CATALOG NUMBER: ARCH1-60-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5
2.5°	871.5	858.6	828.7	802.8	785.8	770.9	751.0	742.0	726.1	729.1	720.1
5°	876.5	852.6	799.8	751.0	715.1	683.3	648.4	628.5	606.6	604.6	597.6
7.5°	879.5	842.6	766.9	698.2	643.4	594.6	547.8	521.9	495.0	489.0	483.1
10°	876.5	827.7	733.1	643.4	570.7	510.0	457.2	424.3	396.4	389.4	383.5
12.5°	879.5	819.7	701.2	592.6	506.0	437.2	377.5	343.6	317.7	310.8	306.8
15°	886.4	814.7	674.3	546.8	448.2	371.5	312.7	283.9	262.9	256.0	254.0
17.5°	892.4	809.8	645.4	502.0	390.4	313.7	262.9	239.0	221.1	214.1	212.1
20°	900.4	802.8	616.5	459.2	339.6	267.9	223.1	202.2	188.2	183.3	182.3
22.5°	907.4	797.8	589.6	416.3	292.8	231.1	193.2	176.3	166.3	161.4	161.4
25°	925.3	799.8	566.7	376.5	258.0	202.2	170.3	157.4	149.4	146.4	146.4
27.5°	946.2	807.8	548.8	342.6	228.1	180.3	154.4	143.4	139.4	135.5	136.5
30°	976.1	823.7	536.8	314.7	206.2	163.3	141.4	133.5	129.5	128.5	128.5
32.5°	1013.9	849.6	535.9	296.8	190.2	150.4	132.5	125.5	123.5	122.5	122.5
35°	1058.8	872.5	529.9	288.8	180.3	141.4	125.5	120.5	119.5	119.5	119.5
37.5°	1112.5	910.3	525.9	277.9	175.3	136.5	120.5	116.5	116.5	116.5	116.5
40°	1168.3	941.2	519.9	267.9	173.3	133.5	117.5	112.5	112.5	112.5	112.5
42.5°	1235.0	986.0	517.9	262.9	170.3	131.5	113.5	107.6	108.6	108.6	109.6
45°	1315.7	1036.8	516.9	258.0	169.3	129.5	109.6	102.6	103.6	102.6	102.6
47.5°	1397.4	1095.6	519.9	255.0	168.3	127.5	106.6	97.6	97.6	96.6	96.6
50°	1483.1	1149.4	521.9	252.0	166.3	123.5	101.6	93.6	91.6	89.6	90.6
52.5°	1563.7	1199.2	522.9	247.0	160.4	117.5	97.6	88.6	85.7	82.7	83.7
55°	1644.4	1247.0	524.9	241.0	152.4	111.6	92.6	83.7	79.7	75.7	75.7
57.5°	1717.1	1288.8	519.9	226.1	143.4	105.6	87.6	77.7	71.7	67.7	67.7
60°	1766.9	1318.7	505.0	204.2	131.5	98.6	82.7	71.7	64.7	61.8	61.8
62.5°	1790.8	1323.7	478.1	168.3	116.5	91.6	76.7	65.7	59.8	57.8	57.8
65°	1767.9	1301.8	436.3	126.5	100.6	83.7	70.7	60.8	54.8	49.8	49.8
67.5°	1688.2	1240.0	378.5	95.6	85.7	75.7	64.7	55.8	48.8	44.8	44.8
70°	1527.9	1111.5	292.8	76.7	72.7	65.7	58.8	49.8	43.8	38.8	38.8
72.5°	1317.7	942.2	206.2	61.8	61.8	55.8	49.8	43.8	37.8	33.9	33.9
75°	1010.9	697.2	138.4	49.8	50.8	46.8	40.8	35.9	31.9	28.9	28.9
77.5°	551.8	344.6	84.7	36.9	37.8	35.9	31.9	28.9	26.9	23.9	23.9
80°	267.9	151.4	48.8	25.9	26.9	25.9	23.9	20.9	20.9	18.9	18.9
82.5°	112.5	56.8	25.9	17.9	17.9	15.9	14.9	14.9	14.9	13.9	13.9
85°	27.9	11.0	11.0	10.0	10.0	10.0	9.0	9.0	9.0	7.0	8.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	1.0	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)