

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: P799156

Luminaire Tested: **ARCH1-60-740-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799156
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: ARCH1-60-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 4974 lumens
Efficiency: N/A
Efficacy: 82.9 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

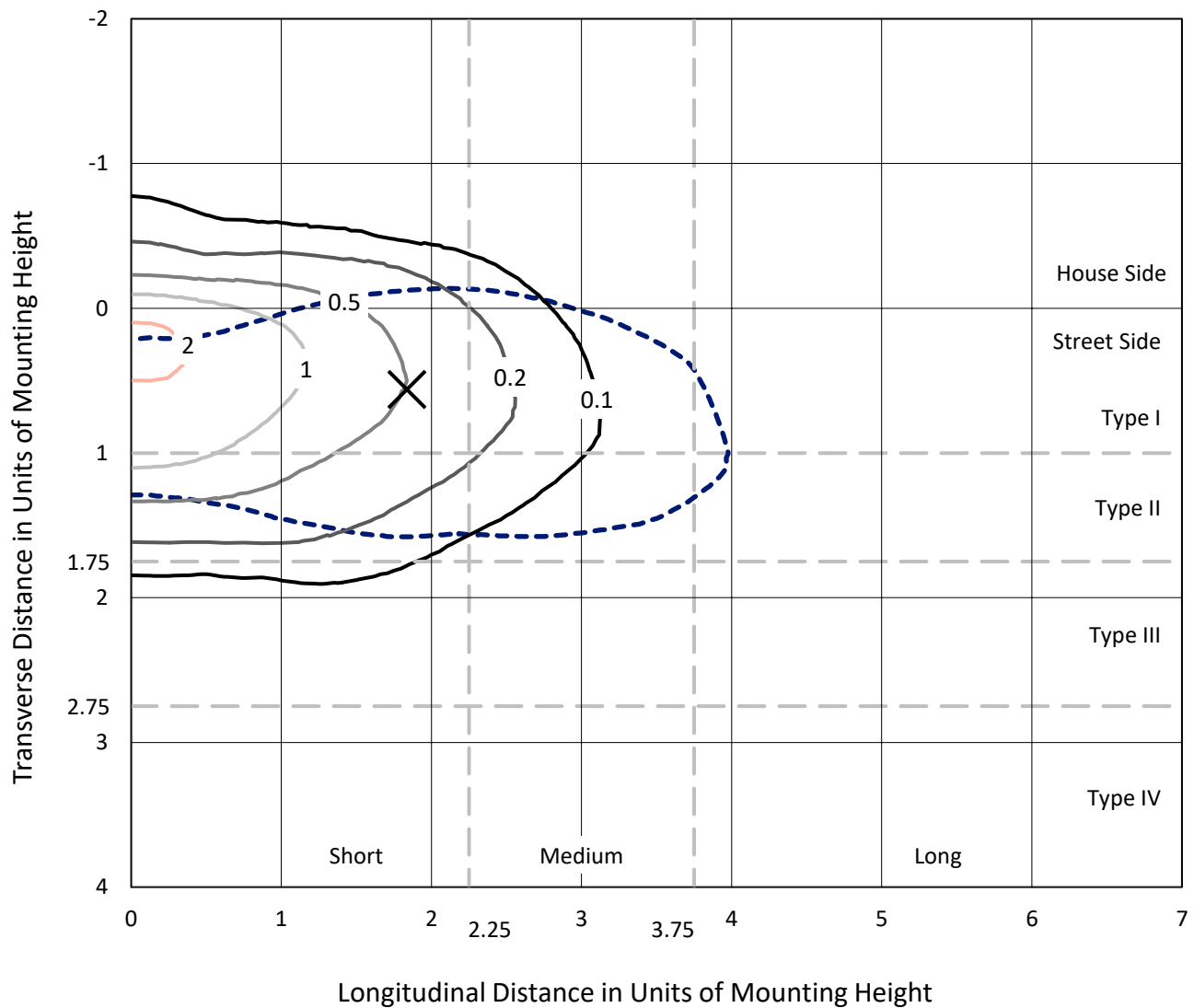


REPORT NUMBER: P799156

CATALOG NUMBER: ARCH1-60-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

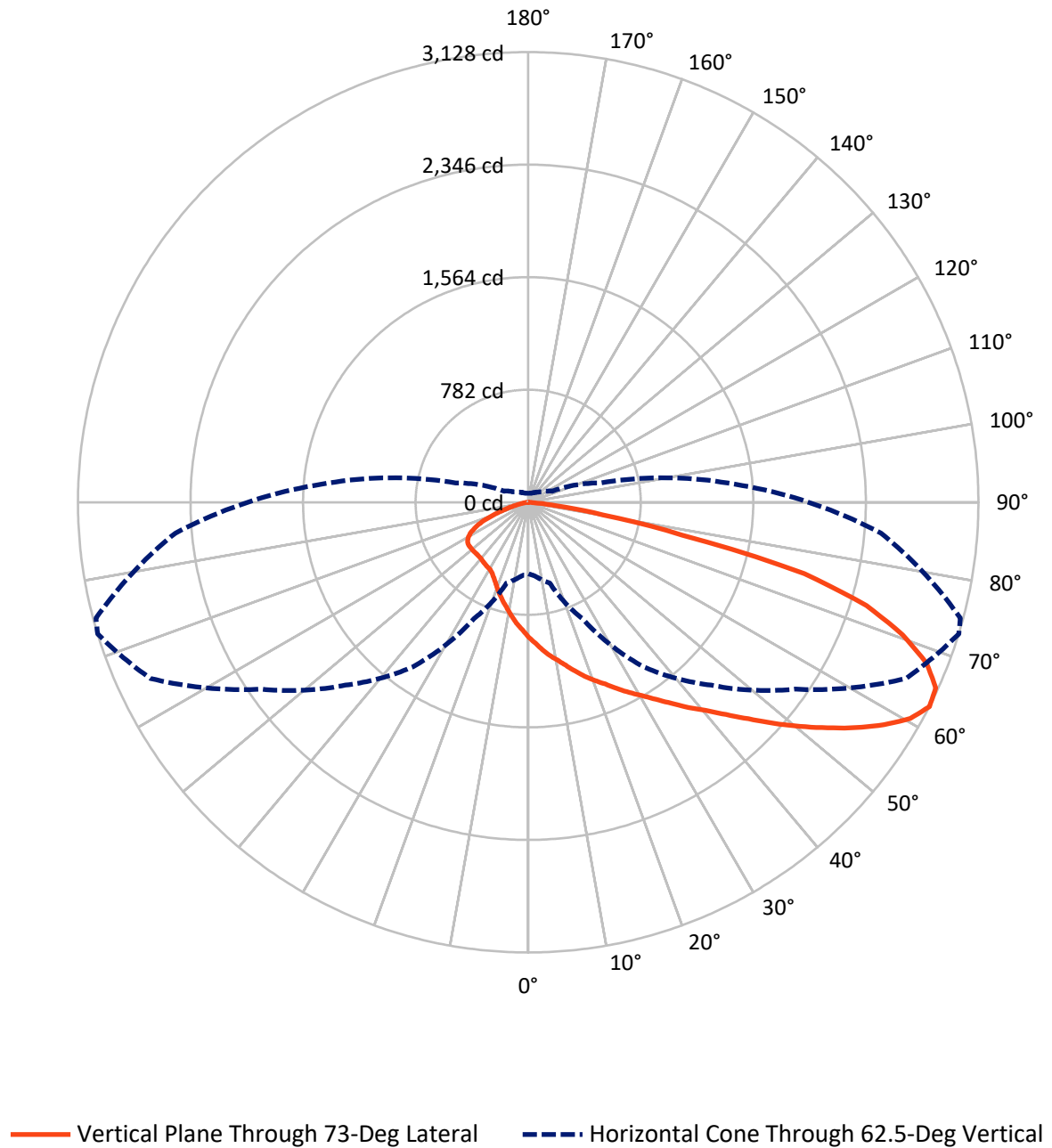


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

REPORT NUMBER: P799156

CATALOG NUMBER: ARCH1-60-740-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799156

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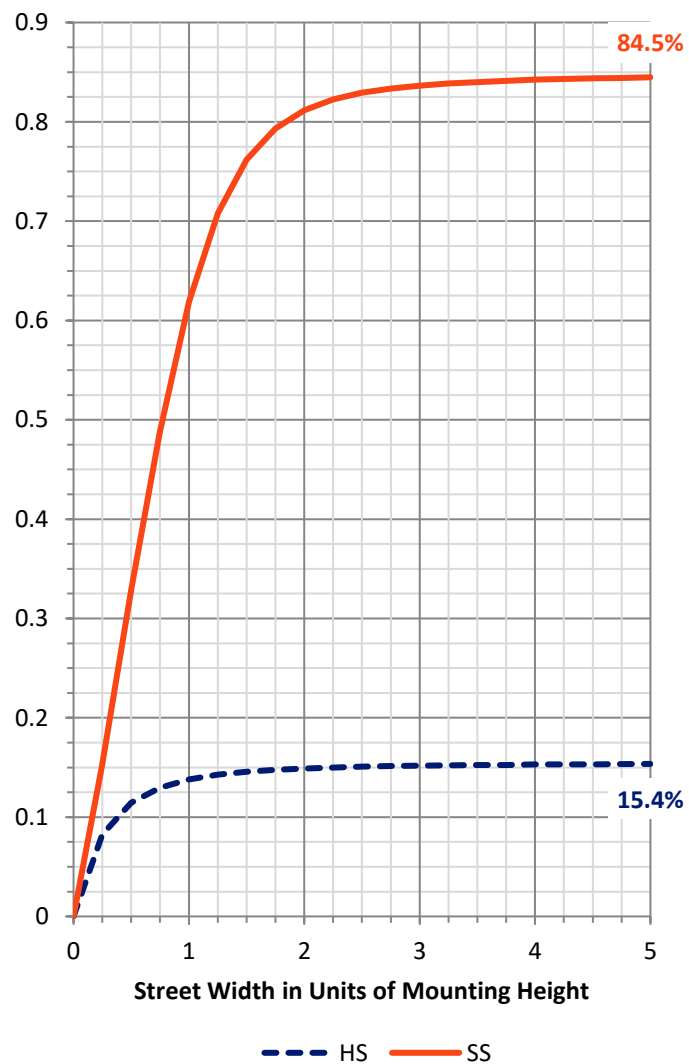
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	771.0	0.0	771.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4203.0	0.0	4203.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	4974.0	0.0	4974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.8
10°-20°	274.6	5.5
20°-30°	457.0	9.2
30°-40°	689.6	13.9
40°-50°	963.8	19.4
50°-60°	1064.6	21.4
60°-70°	927.4	18.6
70°-80°	468.5	9.4
80°-90°	37.6	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°	4974.0	100.0
0°-180°	4974.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799156

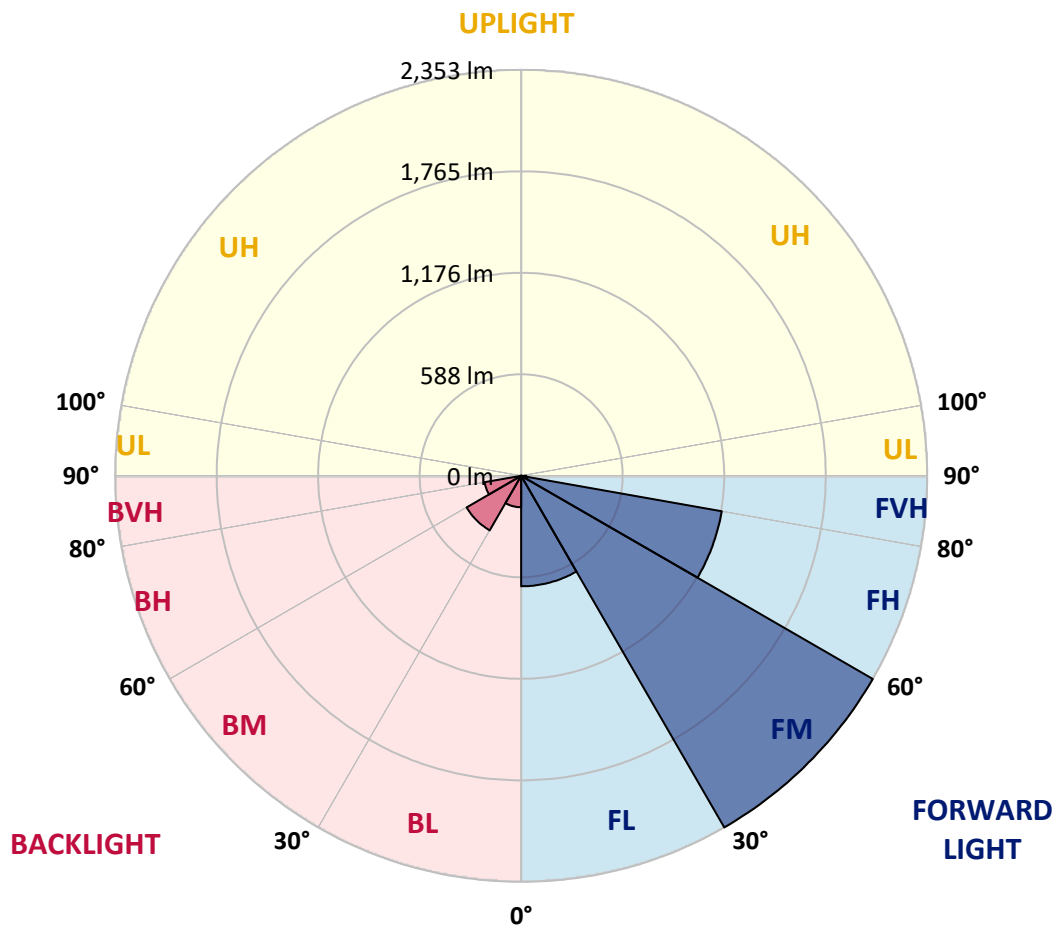
CATALOG NUMBER: ARCH1-60-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.3	12.9			
FM	(30°-60°)	2352.9	47.3			
FH	(60°-80°)	1180.7	23.7			G1/1800
FVH	(80°-90°)	29.1	0.6			G1/100
BL	(0°-30°)	182.2	3.7	B1/500		
BM	(30°-60°)	365.1	7.3	B1/1000		
BH	(60°-80°)	215.2	4.3	B1/500		G1/500
BVH	(80°-90°)	8.5	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: P799156

CATALOG NUMBER: ARCH1-60-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8
2.5°	1071.9	1083.8	1077.3	1081.6	1060.0	1045.9	1029.6	998.2	980.9	978.7	958.1
5°	1229.0	1242.1	1231.2	1228.0	1190.0	1157.5	1120.7	1065.4	1028.5	1022.0	976.5
7.5°	1386.2	1398.1	1385.1	1375.4	1324.4	1267.0	1212.8	1131.5	1074.1	1063.2	991.7
10°	1496.8	1507.6	1497.8	1488.1	1435.0	1376.4	1299.5	1193.3	1115.2	1097.9	1001.4
12.5°	1580.2	1586.7	1582.4	1573.7	1523.8	1461.0	1387.3	1262.6	1161.9	1140.2	1016.6
15°	1648.5	1659.3	1653.9	1647.4	1599.7	1536.9	1466.4	1335.3	1216.0	1188.9	1039.4
17.5°	1694.0	1701.6	1702.7	1702.7	1660.4	1598.6	1530.4	1401.4	1270.2	1235.6	1061.1
20°	1714.6	1723.3	1728.7	1737.4	1702.7	1649.6	1580.2	1457.7	1321.2	1282.2	1081.6
22.5°	1724.4	1731.9	1746.0	1765.5	1737.4	1692.9	1629.0	1509.8	1372.1	1330.9	1105.5
25°	1731.9	1741.7	1762.3	1799.1	1779.6	1741.7	1686.4	1569.4	1432.8	1390.5	1140.2
27.5°	1752.5	1764.5	1784.0	1828.4	1804.6	1786.1	1747.1	1633.3	1496.8	1453.4	1182.4
30°	1824.1	1833.8	1832.7	1860.9	1831.7	1826.2	1799.1	1695.1	1558.5	1515.2	1232.3
32.5°	1954.1	1963.9	1940.0	1929.2	1865.2	1866.3	1855.5	1761.2	1632.2	1587.8	1289.7
35°	2093.9	2104.8	2073.3	2054.9	1947.6	1916.2	1921.6	1843.6	1714.6	1670.2	1361.3
37.5°	2218.6	2231.6	2204.5	2177.4	2069.0	1996.4	1995.3	1935.7	1808.9	1763.4	1440.4
40°	2286.9	2302.0	2318.3	2303.1	2189.3	2109.1	2074.4	2030.0	1902.1	1855.5	1526.0
42.5°	2319.4	2361.6	2390.9	2381.1	2287.9	2206.7	2165.5	2128.6	2015.9	1970.4	1627.9
45°	2228.3	2229.4	2291.2	2344.3	2327.0	2272.8	2265.2	2239.2	2146.0	2102.6	1742.8
47.5°	2114.5	2105.9	2149.2	2243.5	2292.3	2306.4	2350.8	2361.6	2294.4	2251.1	1859.8
50°	1841.4	1846.8	1987.7	2123.2	2218.6	2309.6	2411.5	2487.4	2447.3	2406.1	1983.4
52.5°	1497.8	1510.8	1672.3	1970.4	2121.0	2277.1	2447.3	2613.1	2603.3	2564.3	2106.9
55°	1200.9	1221.5	1392.7	1715.7	1996.4	2204.5	2462.4	2728.0	2764.8	2729.1	2228.3
57.5°	918.0	939.7	1083.8	1415.5	1837.1	2086.3	2451.6	2828.8	2915.5	2892.7	2340.0
60°	691.5	713.2	805.3	1147.8	1637.6	1954.1	2397.4	2894.9	3050.9	3027.1	2421.2
62.5°	495.3	512.6	580.9	893.1	1394.9	1797.0	2264.1	2896.0	3127.9	3108.4	2460.3
65°	356.6	356.6	411.9	637.3	1167.3	1608.4	2062.5	2762.7	3111.6	3106.2	2433.2
67.5°	256.9	259.0	303.5	445.4	931.0	1379.7	1801.3	2525.3	2985.9	3013.0	2335.6
70°	182.1	187.5	208.1	311.1	703.4	1089.2	1521.7	2214.2	2759.4	2807.1	2147.0
72.5°	140.9	144.1	158.2	216.8	513.7	809.6	1212.8	1867.4	2457.0	2511.2	1890.2
75°	108.4	111.6	122.5	159.3	368.5	567.9	861.6	1449.1	1981.2	2077.7	1518.4
77.5°	79.1	83.5	91.0	116.0	214.6	360.9	522.4	815.0	1093.6	1139.1	795.5
80°	36.8	42.3	53.1	74.8	116.0	170.2	185.3	314.3	525.7	549.5	431.4
82.5°	20.6	26.0	30.3	45.5	58.5	60.7	62.9	79.1	198.3	218.9	181.0
85°	9.8	13.0	14.1	19.5	19.5	17.3	20.6	15.2	32.5	39.0	37.9
87.5°	0.0	1.1	2.2	5.4	4.3	3.3	3.3	3.3	3.3	4.3	3.3
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: P799156

CATALOG NUMBER: ARCH1-60-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8
2.5°	948.3	934.3	901.7	873.6	855.1	838.9	817.2	807.4	790.1	793.4	783.6
5°	953.8	927.7	870.3	817.2	778.2	743.5	705.6	683.9	660.0	657.9	650.3
7.5°	957.0	916.9	834.5	759.8	700.1	647.0	596.1	567.9	538.7	532.2	525.7
10°	953.8	900.7	797.7	700.1	621.0	554.9	497.5	461.7	431.4	423.8	417.3
12.5°	957.0	892.0	763.0	644.9	550.6	475.8	410.8	373.9	345.7	338.2	333.8
15°	964.6	886.6	733.7	595.0	487.7	404.3	340.3	308.9	286.1	278.5	276.4
17.5°	971.1	881.1	702.3	546.2	424.9	341.4	286.1	260.1	240.6	233.0	230.9
20°	979.8	873.6	670.9	499.6	369.6	291.5	242.8	220.0	204.8	199.4	198.3
22.5°	987.4	868.1	641.6	453.0	318.6	251.4	210.3	191.8	181.0	175.6	175.6
25°	1006.9	870.3	616.7	409.7	280.7	220.0	185.3	171.2	162.6	159.3	159.3
27.5°	1029.6	879.0	597.2	372.8	248.2	196.2	168.0	156.1	151.7	147.4	148.5
30°	1062.1	896.3	584.2	342.5	224.4	177.7	153.9	145.2	140.9	139.8	139.8
32.5°	1103.3	924.5	583.1	323.0	207.0	163.7	144.1	136.6	134.4	133.3	133.3
35°	1152.1	949.4	576.6	314.3	196.2	153.9	136.6	131.1	130.1	130.1	130.1
37.5°	1210.6	990.6	572.3	302.4	190.8	148.5	131.1	126.8	126.8	126.8	126.8
40°	1271.3	1024.2	565.8	291.5	188.6	145.2	127.9	122.5	122.5	122.5	122.5
42.5°	1343.9	1073.0	563.6	286.1	185.3	143.1	123.6	117.1	118.1	118.1	119.2
45°	1431.7	1128.3	562.5	280.7	184.2	140.9	119.2	111.6	112.7	111.6	111.6
47.5°	1520.6	1192.2	565.8	277.5	183.2	138.7	116.0	106.2	106.2	105.1	105.1
50°	1613.8	1250.7	567.9	274.2	181.0	134.4	110.5	101.9	99.7	97.5	98.6
52.5°	1701.6	1304.9	569.0	268.8	174.5	127.9	106.2	96.5	93.2	90.0	91.0
55°	1789.4	1356.9	571.2	262.3	165.8	121.4	100.8	91.0	86.7	82.4	82.4
57.5°	1868.5	1402.5	565.8	246.0	156.1	114.9	95.4	84.5	78.0	73.7	73.7
60°	1922.7	1435.0	549.5	222.2	143.1	107.3	90.0	78.0	70.4	67.2	67.2
62.5°	1948.7	1440.4	520.2	183.2	126.8	99.7	83.5	71.5	65.0	62.9	62.9
65°	1923.8	1416.5	474.7	137.6	109.5	91.0	77.0	66.1	59.6	54.2	54.2
67.5°	1837.1	1349.4	411.9	104.0	93.2	82.4	70.4	60.7	53.1	48.8	48.8
70°	1662.6	1209.5	318.6	83.5	79.1	71.5	63.9	54.2	47.7	42.3	42.3
72.5°	1433.9	1025.3	224.4	67.2	67.2	60.7	54.2	47.7	41.2	36.8	36.8
75°	1100.1	758.7	150.7	54.2	55.3	50.9	44.4	39.0	34.7	31.4	31.4
77.5°	600.4	375.0	92.1	40.1	41.2	39.0	34.7	31.4	29.3	26.0	26.0
80°	291.5	164.7	53.1	28.2	29.3	28.2	26.0	22.8	22.8	20.6	20.6
82.5°	122.5	61.8	28.2	19.5	19.5	17.3	16.3	16.3	16.3	15.2	15.2
85°	30.3	11.9	11.9	10.8	10.8	10.8	9.8	9.8	9.8	7.6	8.7
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	3.3	1.1	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)