

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: P799636

Luminaire Tested: **ARCH2-40-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799636
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: ARCH2-40-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

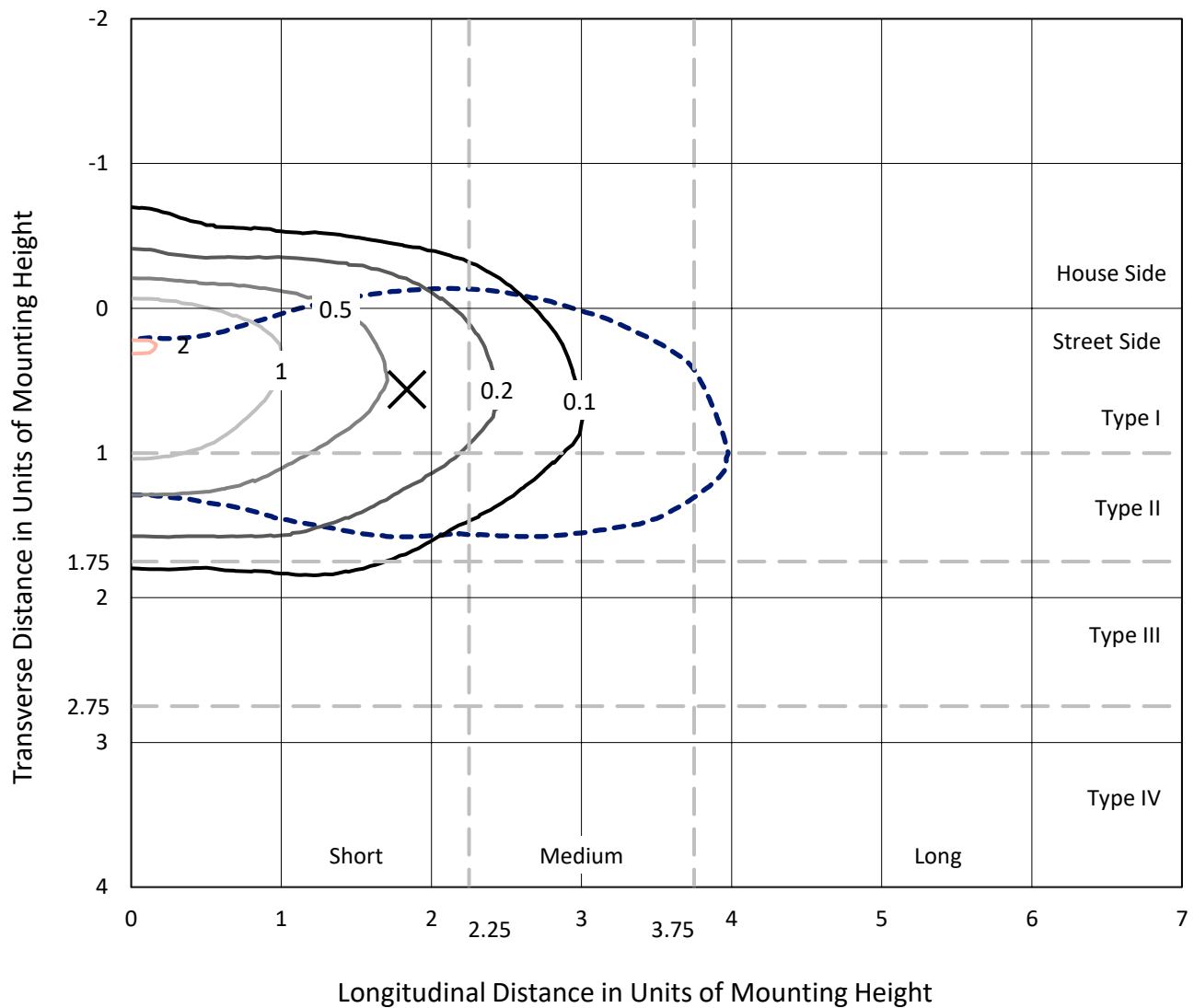
Lumens per Lamp: N/A
Luminaire Lumens: 4307 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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



Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

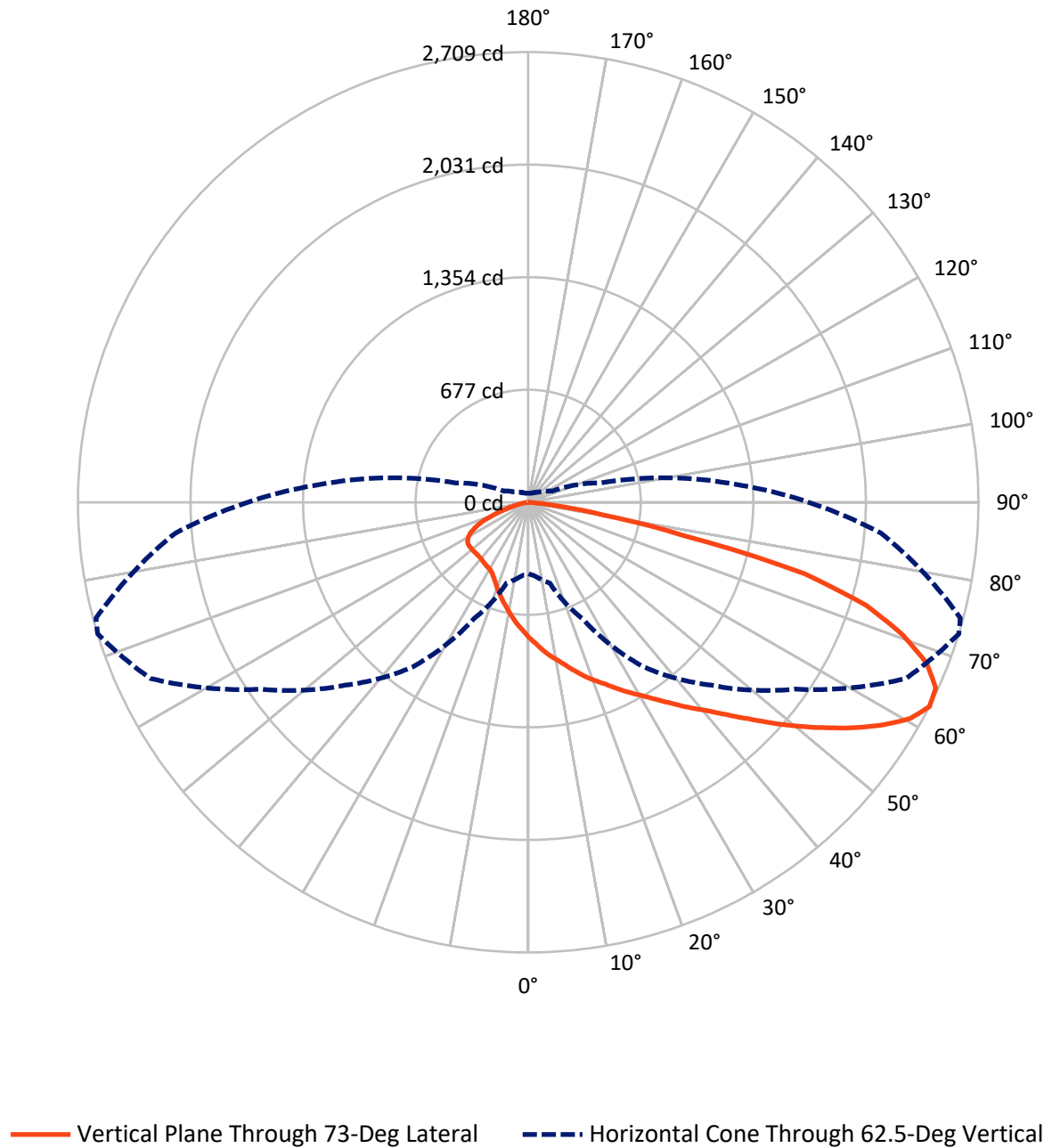


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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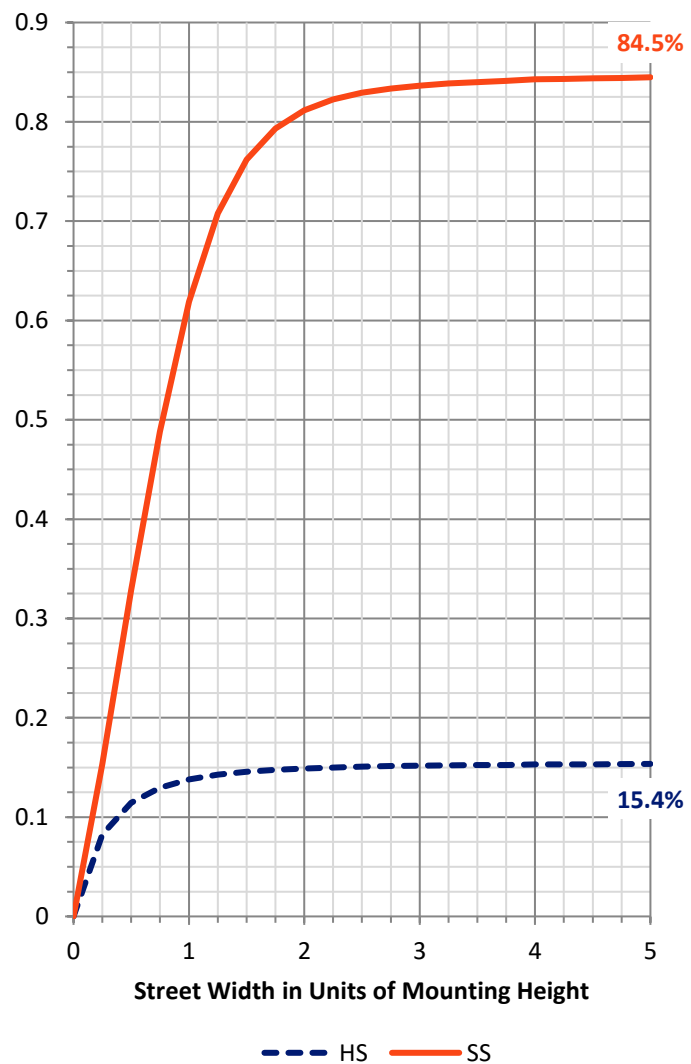
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.6	0.0	667.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3639.4	0.0	3639.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	4307.0	0.0	4307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.8
10°-20°	237.7	5.5
20°-30°	395.7	9.2
30°-40°	597.1	13.9
40°-50°	834.6	19.4
50°-60°	921.8	21.4
60°-70°	803.0	18.6
70°-80°	405.6	9.4
80°-90°	32.6	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°	4307.0	100.0
0°-180°	4307.0	100.0

Coefficient of Utilization



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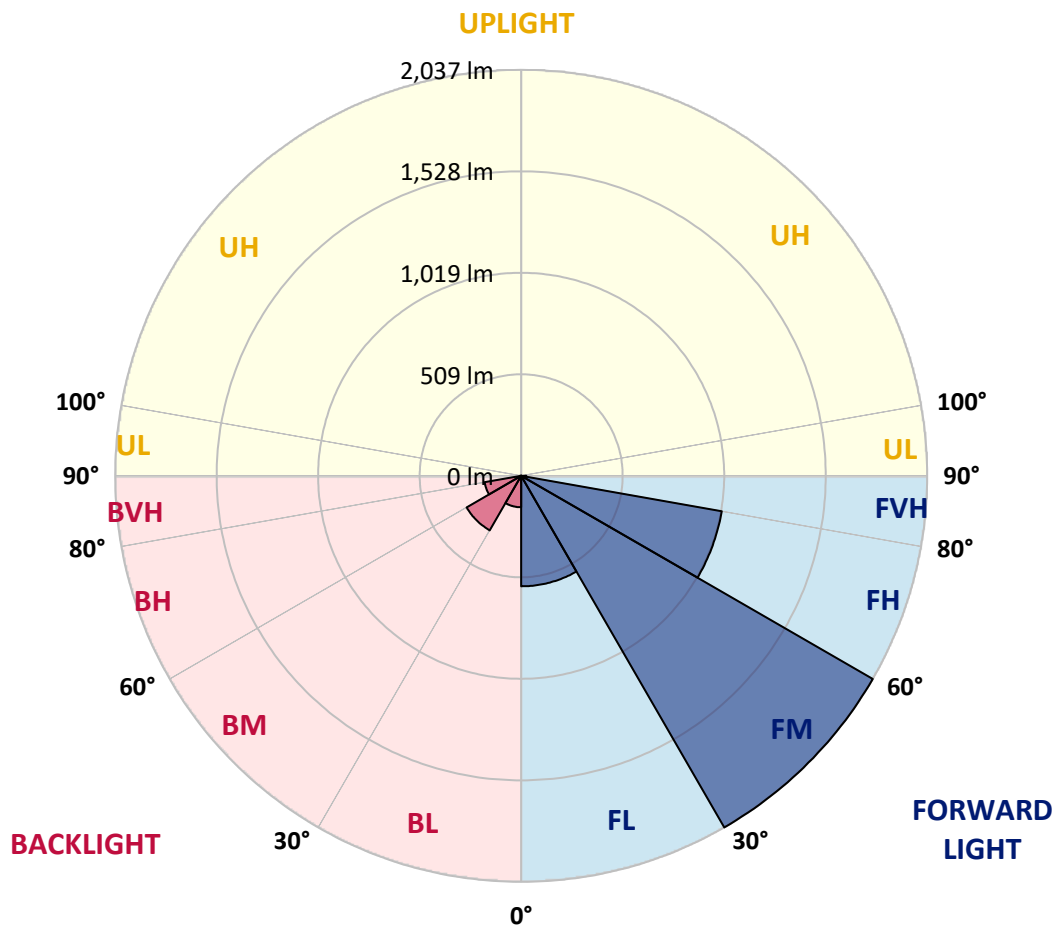
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.4	12.9			
FM	(30°-60°)	2037.4	47.3			
FH	(60°-80°)	1022.3	23.7			G1/1800
FVH	(80°-90°)	25.2	0.6			G1/100
BL	(0°-30°)	157.8	3.7	B1/500		
BM	(30°-60°)	316.1	7.3	B1/1000		
BH	(60°-80°)	186.3	4.3	B1/500		G1/500
BVH	(80°-90°)	7.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5
2.5°	928.2	938.5	932.8	936.6	917.8	905.6	891.6	864.3	849.3	847.4	829.6
5°	1064.2	1075.5	1066.1	1063.3	1030.5	1002.3	970.4	922.5	890.6	885.0	845.6
7.5°	1200.3	1210.6	1199.4	1190.9	1146.8	1097.1	1050.2	979.8	930.0	920.6	858.7
10°	1296.0	1305.4	1297.0	1288.5	1242.5	1191.9	1125.2	1033.3	965.7	950.7	867.2
12.5°	1368.3	1373.9	1370.2	1362.7	1319.5	1265.1	1201.3	1093.3	1006.1	987.3	880.3
15°	1427.4	1436.8	1432.1	1426.5	1385.2	1330.8	1269.8	1156.2	1053.0	1029.5	900.0
17.5°	1466.8	1473.4	1474.4	1474.4	1437.8	1384.3	1325.1	1213.5	1099.9	1069.9	918.8
20°	1484.7	1492.2	1496.9	1504.4	1474.4	1428.4	1368.3	1262.3	1144.0	1110.2	936.6
22.5°	1493.1	1499.7	1511.9	1528.8	1504.4	1465.9	1410.5	1307.3	1188.1	1152.5	957.3
25°	1499.7	1508.1	1526.0	1557.9	1541.0	1508.1	1460.3	1358.9	1240.7	1204.1	987.3
27.5°	1517.5	1527.8	1544.7	1583.2	1562.6	1546.6	1512.8	1414.3	1296.0	1258.5	1023.9
30°	1579.5	1587.9	1587.0	1611.4	1586.0	1581.3	1557.9	1467.8	1349.5	1312.0	1067.1
32.5°	1692.1	1700.5	1679.9	1670.5	1615.1	1616.1	1606.7	1525.0	1413.4	1374.9	1116.8
35°	1813.1	1822.5	1795.3	1779.4	1686.4	1659.2	1663.9	1596.4	1484.7	1446.2	1178.7
37.5°	1921.1	1932.3	1908.9	1885.4	1791.6	1728.7	1727.7	1676.1	1566.3	1526.9	1247.2
40°	1980.2	1993.3	2007.4	1994.3	1895.7	1826.3	1796.3	1757.8	1647.0	1606.7	1321.4
42.5°	2008.3	2044.9	2070.3	2061.8	1981.1	1910.7	1875.1	1843.2	1745.6	1706.2	1409.6
45°	1929.5	1930.5	1983.9	2029.9	2014.9	1968.0	1961.4	1938.9	1858.2	1820.7	1509.1
47.5°	1831.0	1823.5	1861.0	1942.7	1984.9	1997.1	2035.6	2044.9	1986.8	1949.2	1610.4
50°	1594.5	1599.2	1721.2	1838.5	1921.1	1999.9	2088.1	2153.8	2119.1	2083.4	1717.4
52.5°	1297.0	1308.2	1448.1	1706.2	1836.6	1971.7	2119.1	2262.7	2254.2	2220.4	1824.4
55°	1039.8	1057.7	1205.9	1485.6	1728.7	1908.9	2132.2	2362.2	2394.1	2363.1	1929.5
57.5°	794.9	813.7	938.5	1225.7	1590.7	1806.6	2122.8	2449.4	2524.5	2504.8	2026.2
60°	598.8	617.5	697.3	993.9	1418.0	1692.1	2075.9	2506.7	2641.8	2621.2	2096.6
62.5°	428.9	443.9	503.0	773.3	1207.8	1556.0	1960.5	2507.6	2708.5	2691.6	2130.4
65°	308.8	308.8	356.6	551.8	1010.7	1392.7	1785.9	2392.2	2694.4	2689.7	2106.9
67.5°	222.4	224.3	262.8	385.7	806.2	1194.7	1559.8	2186.7	2585.5	2609.0	2022.4
70°	157.7	162.4	180.2	269.3	609.1	943.2	1317.6	1917.3	2389.4	2430.7	1859.1
72.5°	122.0	124.8	137.0	187.7	444.8	701.0	1050.2	1617.0	2127.5	2174.5	1636.7
75°	93.8	96.7	106.0	138.0	319.1	491.8	746.1	1254.7	1715.5	1799.1	1314.8
77.5°	68.5	72.3	78.8	100.4	185.8	312.5	452.3	705.7	946.9	986.3	688.8
80°	31.9	36.6	46.0	64.8	100.4	147.3	160.5	272.2	455.2	475.8	373.5
82.5°	17.8	22.5	26.3	39.4	50.7	52.6	54.4	68.5	171.7	189.6	156.7
85°	8.4	11.3	12.2	16.9	16.9	15.0	17.8	13.1	28.2	33.8	32.8
87.5°	0.0	0.9	1.9	4.7	3.8	2.8	2.8	2.8	2.8	3.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5
2.5°	821.2	809.0	780.8	756.4	740.5	726.4	707.6	699.2	684.2	687.0	678.5
5°	825.9	803.3	753.6	707.6	673.8	643.8	611.0	592.2	571.5	569.7	563.1
7.5°	828.7	794.0	722.6	657.9	606.3	560.3	516.2	491.8	466.4	460.8	455.2
10°	825.9	779.9	690.7	606.3	537.7	480.5	430.8	399.8	373.5	366.9	361.3
12.5°	828.7	772.4	660.7	558.4	476.7	412.0	355.7	323.8	299.4	292.8	289.1
15°	835.2	767.7	635.4	515.2	422.3	350.1	294.7	267.5	247.8	241.2	239.3
17.5°	840.9	763.0	608.1	473.0	367.9	295.6	247.8	225.2	208.3	201.8	199.9
20°	848.4	756.4	580.9	432.6	320.0	252.5	210.2	190.5	177.4	172.7	171.7
22.5°	855.0	751.7	555.6	392.3	275.9	217.7	182.1	166.1	156.7	152.0	152.0
25°	871.8	753.6	534.0	354.7	243.1	190.5	160.5	148.3	140.8	138.0	138.0
27.5°	891.6	761.1	517.1	322.8	214.9	169.9	145.5	135.1	131.4	127.6	128.6
30°	919.7	776.1	505.8	296.6	194.3	153.9	133.3	125.8	122.0	121.1	121.1
32.5°	955.4	800.5	504.9	279.7	179.2	141.7	124.8	118.2	116.4	115.4	115.4
35°	997.6	822.1	499.3	272.2	169.9	133.3	118.2	113.6	112.6	112.6	112.6
37.5°	1048.3	857.8	495.5	261.8	165.2	128.6	113.6	109.8	109.8	109.8	109.8
40°	1100.8	886.9	489.9	252.5	163.3	125.8	110.7	106.0	106.0	106.0	106.0
42.5°	1163.7	929.1	488.0	247.8	160.5	123.9	107.0	101.4	102.3	102.3	103.2
45°	1239.7	977.0	487.1	243.1	159.5	122.0	103.2	96.7	97.6	96.7	96.7
47.5°	1316.7	1032.3	489.9	240.3	158.6	120.1	100.4	92.0	92.0	91.0	91.0
50°	1397.4	1083.0	491.8	237.4	156.7	116.4	95.7	88.2	86.3	84.5	85.4
52.5°	1473.4	1129.9	492.7	232.7	151.1	110.7	92.0	83.5	80.7	77.9	78.8
55°	1549.4	1175.0	494.6	227.1	143.6	105.1	87.3	78.8	75.1	71.3	71.3
57.5°	1617.9	1214.4	489.9	213.0	135.1	99.5	82.6	73.2	67.6	63.8	63.8
60°	1664.9	1242.5	475.8	192.4	123.9	92.9	77.9	67.6	61.0	58.2	58.2
62.5°	1687.4	1247.2	450.5	158.6	109.8	86.3	72.3	61.9	56.3	54.4	54.4
65°	1665.8	1226.6	411.1	119.2	94.8	78.8	66.6	57.2	51.6	46.9	46.9
67.5°	1590.7	1168.4	356.6	90.1	80.7	71.3	61.0	52.6	46.0	42.2	42.2
70°	1439.6	1047.3	275.9	72.3	68.5	61.9	55.4	46.9	41.3	36.6	36.6
72.5°	1241.6	887.8	194.3	58.2	58.2	52.6	46.9	41.3	35.7	31.9	31.9
75°	952.6	656.9	130.4	46.9	47.9	44.1	38.5	33.8	30.0	27.2	27.2
77.5°	519.9	324.7	79.8	34.7	35.7	33.8	30.0	27.2	25.3	22.5	22.5
80°	252.5	142.6	46.0	24.4	25.3	24.4	22.5	19.7	19.7	17.8	17.8
82.5°	106.0	53.5	24.4	16.9	16.9	15.0	14.1	14.1	14.1	13.1	13.1
85°	26.3	10.3	10.3	9.4	9.4	9.4	8.4	8.4	8.4	6.6	7.5
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.8	0.9	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)