

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: P836528

Luminaire Tested: **ARCH3-40-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

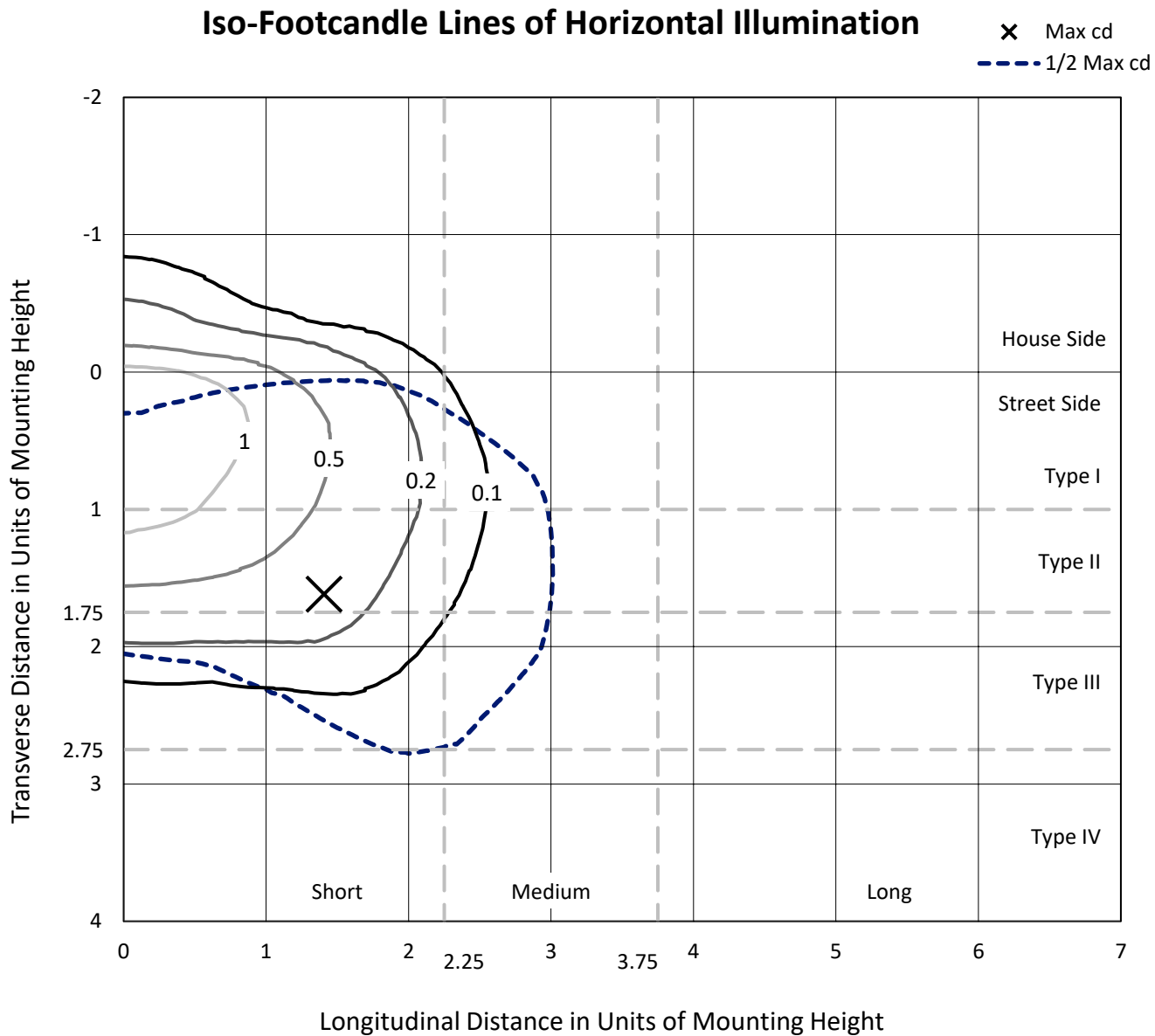
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4334 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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

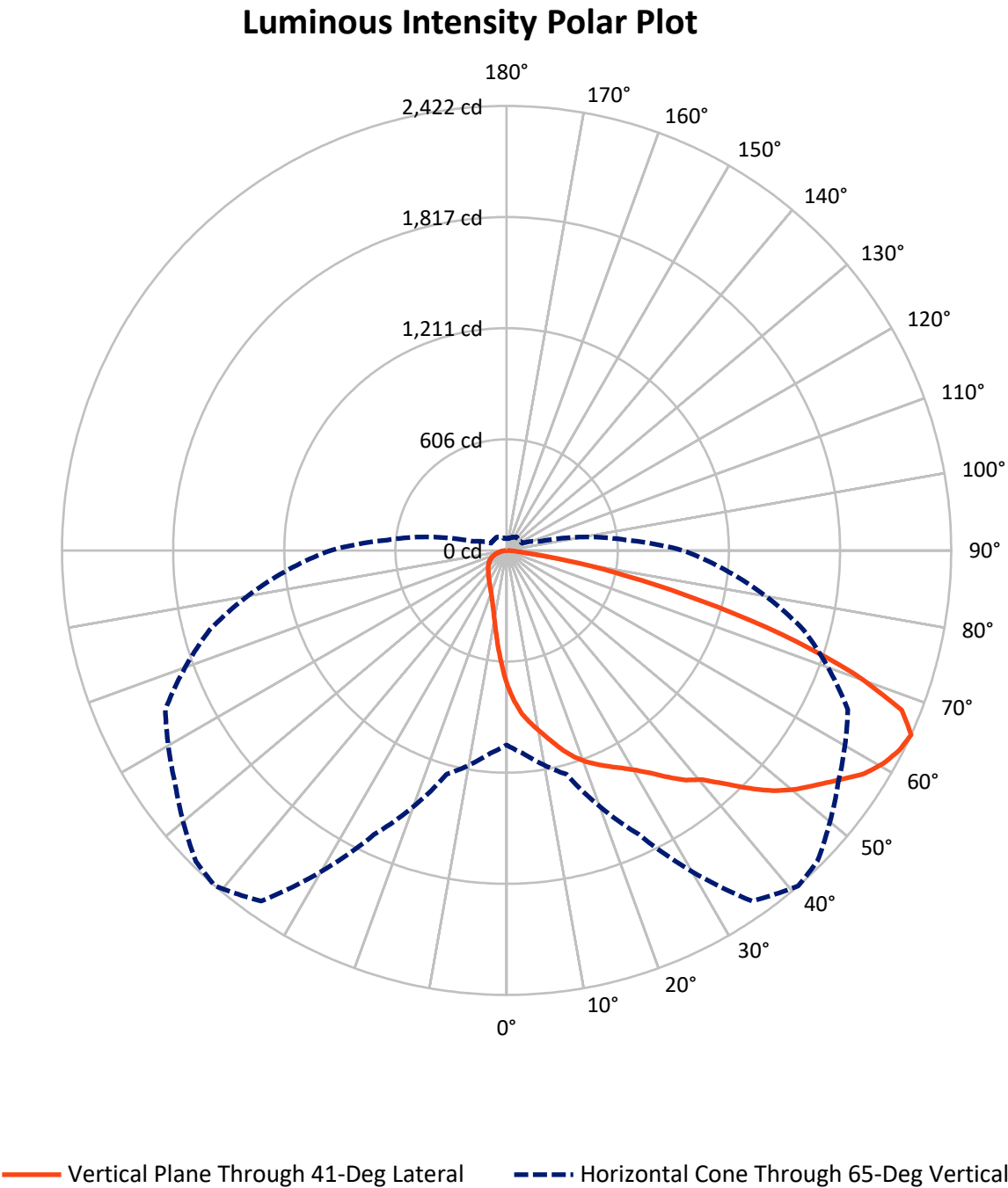


REPORT NUMBER: P836528
CATALOG NUMBER: ARCH3-40-722-U-T4W-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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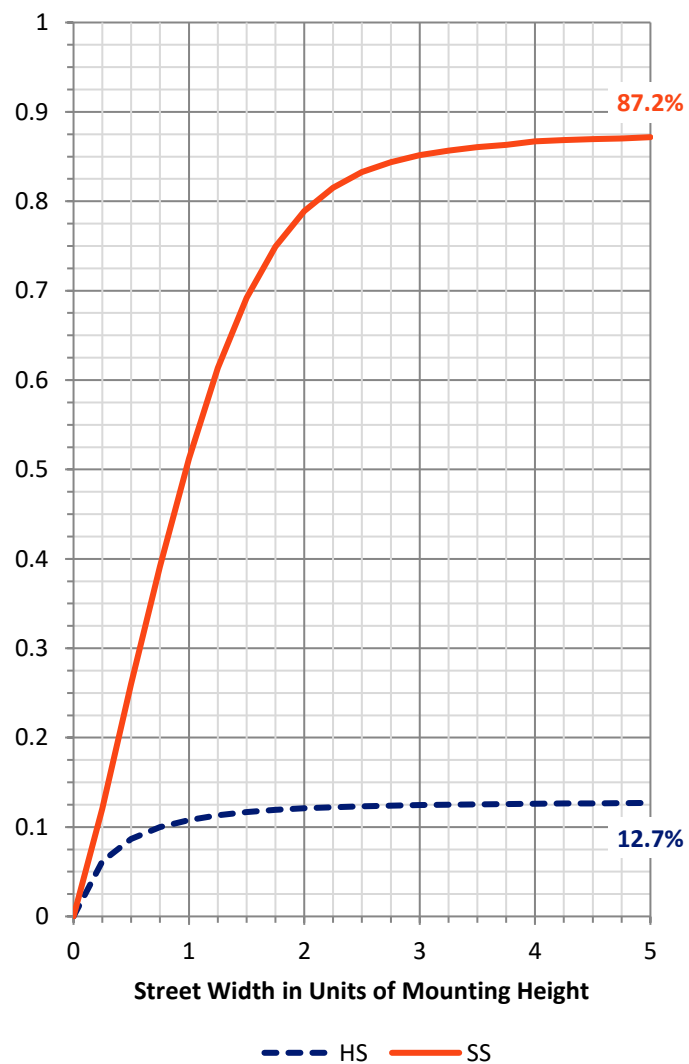
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.4	0.0	556.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3777.6	0.0	3777.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	4334.0	0.0	4334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.6
10°-20°	206.3	4.8
20°-30°	355.0	8.2
30°-40°	538.3	12.4
40°-50°	788.7	18.2
50°-60°	995.9	23.0
60°-70°	933.9	21.5
70°-80°	416.2	9.6
80°-90°	30.8	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°	4334.0	100.0
0°-180°	4334.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836528

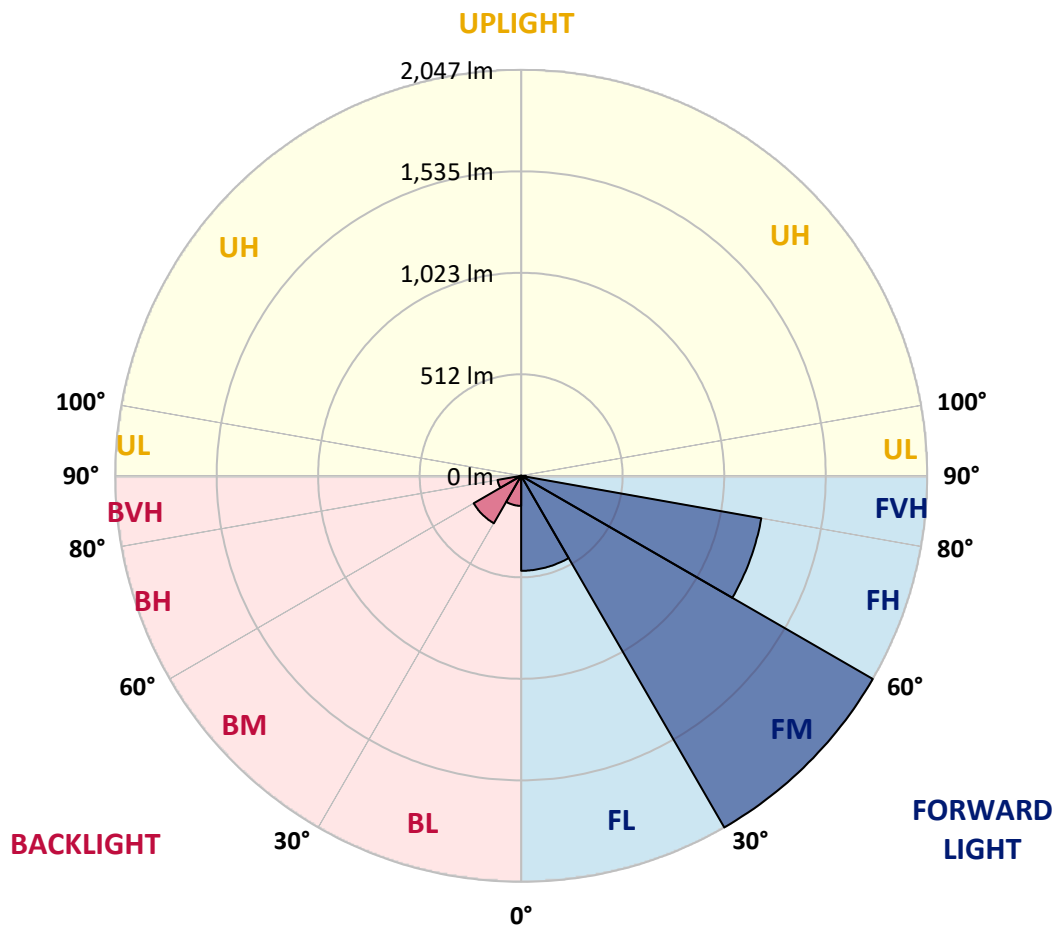
CATALOG NUMBER: ARCH3-40-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	478.6	11.0			
FM	(30°-60°)	2046.7	47.2			
FH	(60°-80°)	1229.2	28.4			G1/1800
FVH	(80°-90°)	23.0	0.5			G1/100
BL	(0°-30°)	151.5	3.5	B1/500		
BM	(30°-60°)	276.3	6.4	B1/1000		
BH	(60°-80°)	120.9	2.8	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 III Short



REPORT NUMBER: P836528

CATALOG NUMBER: ARCH3-40-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5
2.5°	851.8	849.1	847.3	837.2	837.2	823.5	824.4	811.6	796.1	771.4	744.9
5°	932.3	928.6	924.0	914.0	910.3	896.6	894.8	876.5	850.0	807.0	759.5
7.5°	1002.6	999.0	992.6	978.0	967.9	951.4	946.9	923.1	893.9	840.9	774.1
10°	1066.6	1063.9	1055.6	1037.4	1023.7	1003.5	995.3	963.3	926.8	868.3	786.0
12.5°	1131.5	1127.8	1116.9	1101.3	1084.9	1061.1	1051.1	1009.9	963.3	898.4	803.4
15°	1191.8	1186.3	1178.1	1161.7	1147.0	1124.2	1113.2	1064.8	1008.1	932.3	826.2
17.5°	1231.1	1226.6	1219.2	1210.1	1198.2	1180.9	1169.9	1122.4	1052.9	965.2	850.0
20°	1254.9	1253.1	1250.3	1244.8	1239.3	1227.5	1219.2	1174.5	1101.3	997.1	872.8
22.5°	1273.2	1271.3	1270.4	1270.4	1271.3	1266.8	1261.3	1222.9	1148.0	1031.0	893.9
25°	1301.5	1300.6	1298.8	1296.9	1303.3	1304.2	1302.4	1275.9	1206.4	1075.7	920.4
27.5°	1340.8	1338.1	1334.4	1332.6	1339.0	1343.5	1347.2	1328.9	1268.6	1121.4	950.5
30°	1401.1	1392.9	1383.8	1377.4	1381.9	1389.2	1397.5	1386.5	1332.6	1178.1	981.6
32.5°	1472.4	1462.4	1441.3	1429.5	1441.3	1446.8	1453.2	1447.7	1399.3	1239.3	1012.7
35°	1559.2	1547.4	1525.4	1508.1	1529.1	1517.2	1514.5	1509.0	1462.4	1299.7	1047.4
37.5°	1703.6	1686.3	1651.6	1613.2	1613.2	1587.6	1577.5	1561.1	1519.0	1353.6	1081.2
40°	1870.9	1848.1	1803.3	1746.6	1694.5	1641.5	1635.1	1623.2	1585.7	1415.7	1119.6
42.5°	2054.6	2010.7	1948.6	1880.0	1796.0	1735.6	1721.0	1687.2	1650.6	1478.8	1158.0
45°	2258.4	2167.0	2076.5	2041.8	1902.9	1848.1	1820.6	1759.4	1718.3	1544.6	1198.2
47.5°	2291.3	2220.0	2159.7	2154.2	2002.5	1956.8	1925.7	1838.0	1791.4	1615.0	1240.3
50°	2273.1	2230.1	2236.5	2214.6	2075.6	2045.5	2021.7	1922.1	1863.6	1682.6	1278.6
52.5°	2196.3	2220.0	2256.6	2216.4	2145.1	2120.4	2108.5	2012.6	1931.2	1744.8	1313.4
55°	2104.9	2121.3	2199.9	2249.3	2225.5	2203.6	2192.6	2117.7	1997.9	1796.9	1345.4
57.5°	1971.4	1964.1	2051.0	2243.8	2309.6	2296.8	2284.9	2221.0	2060.1	1834.3	1365.5
60°	1771.3	1755.7	1865.4	2134.1	2337.0	2357.1	2351.7	2289.5	2107.6	1833.4	1357.3
62.5°	1424.9	1463.3	1615.0	1955.0	2348.9	2400.1	2390.0	2295.0	2123.2	1780.4	1305.2
65°	1059.3	1114.1	1263.1	1708.2	2332.5	2422.0	2394.6	2205.4	2051.0	1675.3	1190.9
67.5°	763.2	811.6	920.4	1405.7	2174.3	2321.5	2289.5	2059.2	1884.6	1526.3	1032.8
70°	521.9	556.6	630.6	1023.7	1856.3	2007.1	1987.0	1840.7	1622.3	1349.0	839.0
72.5°	368.3	383.0	430.5	675.4	1410.3	1574.8	1551.0	1514.5	1303.3	1121.4	652.6
75°	276.0	285.2	310.8	436.9	951.4	1091.3	1069.3	1090.4	973.4	849.1	475.3
77.5°	104.2	113.3	176.4	278.8	563.0	669.9	648.0	660.8	541.1	428.7	236.7
80°	28.3	30.2	58.5	132.5	255.9	333.6	303.4	260.5	201.1	197.4	125.2
82.5°	11.9	13.7	26.5	71.3	91.4	91.4	76.8	95.1	76.8	92.3	60.3
85°	4.6	5.5	6.4	18.3	11.9	12.8	13.7	18.3	15.5	19.2	13.7
87.5°	0.0	0.0	0.0	0.9	0.9	1.8	0.9	1.8	2.7	2.7	2.7
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: P836528

CATALOG NUMBER: ARCH3-40-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5	738.5
2.5°	733.9	723.9	709.2	685.5	660.8	647.1	629.7	627.0	608.7	606.9	599.6
5°	738.5	717.5	680.0	634.3	589.5	554.8	529.2	515.5	489.0	489.0	481.7
7.5°	742.1	709.2	648.9	581.3	520.1	473.4	438.7	424.1	400.3	398.5	393.0
10°	743.1	699.2	615.1	527.4	452.4	404.9	371.1	354.6	333.6	331.8	328.1
12.5°	750.4	693.7	584.9	480.8	404.0	352.8	319.9	306.2	289.7	287.9	284.2
15°	762.3	693.7	559.4	441.4	361.0	313.5	285.2	272.4	260.5	258.7	256.8
17.5°	774.1	691.9	533.8	404.9	325.4	282.4	257.7	247.7	238.5	237.6	235.8
20°	785.1	691.0	508.2	373.8	298.0	256.8	237.6	228.5	221.2	221.2	220.3
22.5°	796.1	689.1	483.5	344.6	274.2	237.6	221.2	211.1	205.6	205.6	204.7
25°	812.5	689.1	460.6	319.9	255.0	223.0	206.6	199.2	194.7	193.8	193.8
27.5°	831.7	694.6	440.5	298.0	238.5	208.4	195.6	188.3	182.8	181.0	181.9
30°	852.7	699.2	422.3	278.8	223.0	197.4	183.7	176.4	170.9	169.1	170.0
32.5°	873.8	704.7	405.8	261.4	207.5	187.4	173.7	165.4	159.9	159.0	159.0
35°	896.6	710.2	389.4	246.8	194.7	177.3	164.5	155.4	151.7	149.9	150.8
37.5°	919.5	719.3	373.8	233.1	185.5	168.2	156.3	147.1	144.4	143.5	143.5
40°	946.9	733.0	367.4	223.9	177.3	159.9	149.9	140.8	138.0	138.0	138.0
42.5°	969.7	744.0	361.9	213.9	170.9	152.6	143.5	136.2	134.4	133.4	134.4
45°	992.6	754.0	354.6	204.7	162.7	145.3	138.0	130.7	128.9	128.9	128.9
47.5°	1015.4	759.5	344.6	195.6	155.4	138.9	132.5	126.1	124.3	124.3	124.3
50°	1033.7	764.1	329.9	185.5	147.1	133.4	127.0	120.6	118.8	118.8	118.8
52.5°	1052.0	765.0	314.4	173.7	138.9	127.0	121.6	115.2	113.3	112.4	112.4
55°	1068.4	764.1	296.1	159.9	129.8	119.7	115.2	109.7	106.0	102.4	104.2
57.5°	1080.3	763.2	275.1	146.2	120.6	112.4	110.6	103.3	96.0	86.8	88.7
60°	1075.7	753.1	252.3	128.9	110.6	105.1	105.1	95.1	82.3	77.7	78.6
62.5°	1046.5	724.8	228.5	110.6	100.5	97.8	96.9	85.9	75.9	71.3	72.2
65°	958.8	653.5	193.8	94.1	90.5	89.6	89.6	79.5	70.4	64.9	65.8
67.5°	825.3	548.4	158.1	79.5	80.4	82.3	82.3	73.1	64.0	58.5	59.4
70°	661.7	428.7	126.1	68.5	69.5	72.2	74.0	65.8	57.6	52.1	52.1
72.5°	498.1	325.4	101.5	57.6	62.2	62.2	64.9	58.5	50.3	44.8	45.7
75°	361.0	233.1	80.4	48.4	53.9	53.0	53.0	49.4	43.0	39.3	39.3
77.5°	170.9	122.5	64.0	34.7	42.0	41.1	42.0	39.3	36.6	32.9	33.8
80°	84.1	60.3	41.1	24.7	29.2	30.2	32.9	31.1	30.2	27.4	27.4
82.5°	40.2	23.8	19.2	17.4	20.1	21.0	22.8	22.8	23.8	21.9	21.9
85°	11.0	6.4	8.2	11.0	12.8	13.7	15.5	16.5	16.5	15.5	16.5
87.5°	2.7	2.7	3.7	5.5	6.4	7.3	8.2	8.2	3.7	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)