

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: P799126

Luminaire Tested: **ARCH1-60-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799126
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: ARCH1-60-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

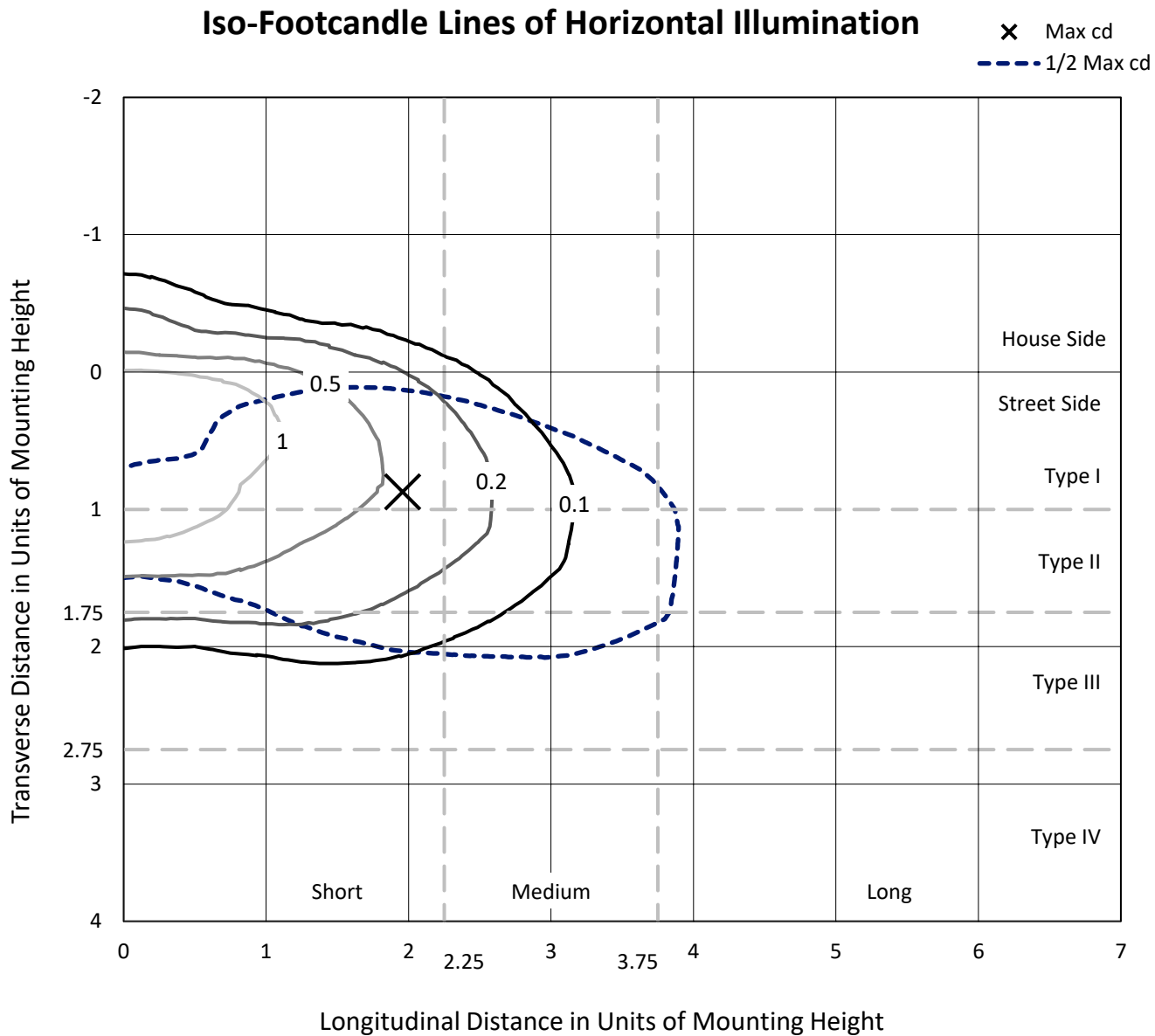
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4922 lumens
Efficiency: N/A
Efficacy: 82.0 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

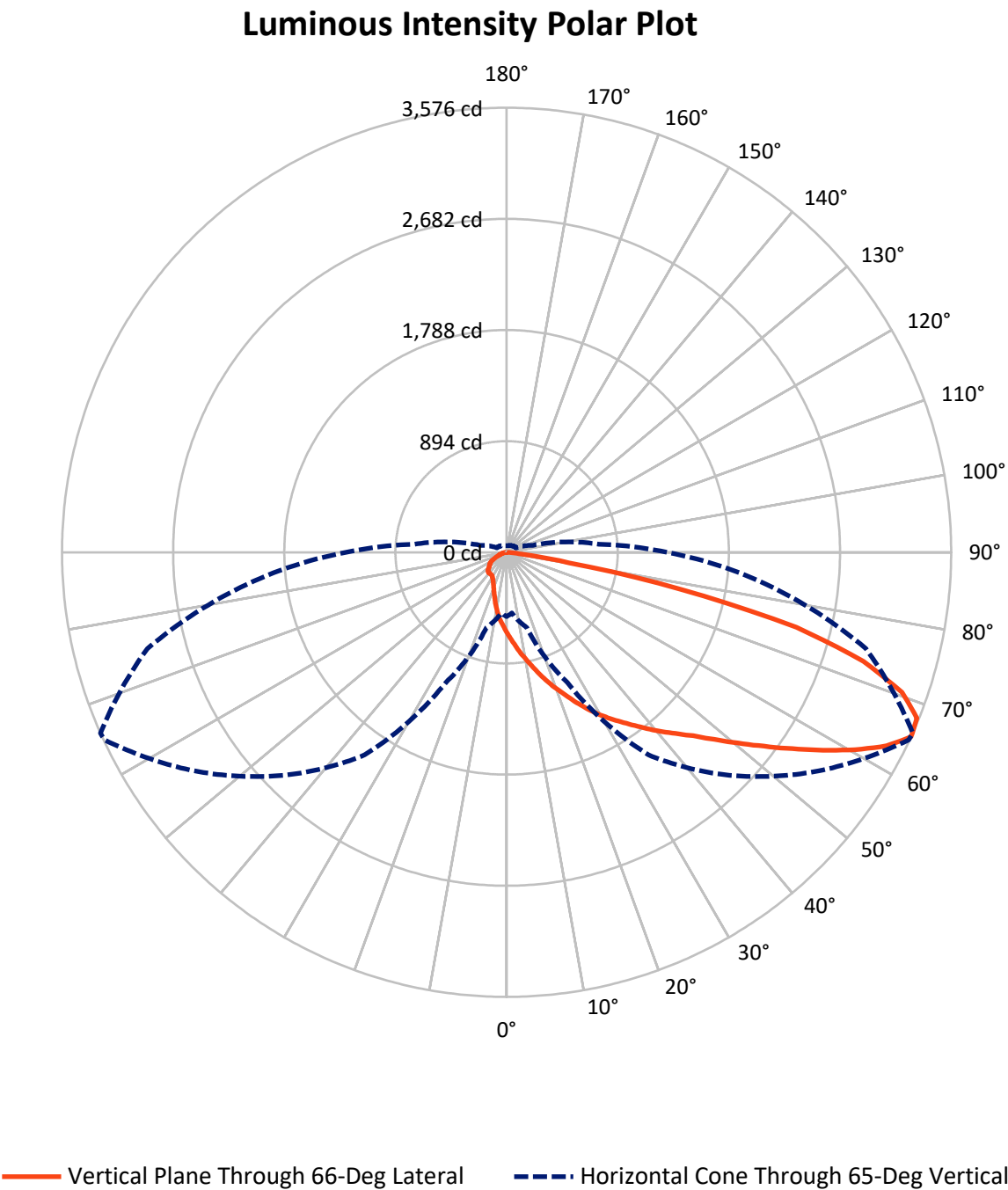


REPORT NUMBER: P799126
CATALOG NUMBER: ARCH1-60-730-U-T3-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

REPORT NUMBER: P799126
CATALOG NUMBER: ARCH1-60-730-U-T3-HSS



REPORT NUMBER: P799126

CATALOG NUMBER: ARCH1-60-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.6	0.0	520.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4401.4	0.0	4401.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	4922.0	0.0	4922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.3
10°-20°	209.6	4.3
20°-30°	379.1	7.7
30°-40°	592.9	12.0
40°-50°	899.4	18.3
50°-60°	1142.7	23.2
60°-70°	1067.7	21.7
70°-80°	530.7	10.8
80°-90°	35.6	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°	4922.0	100.0
0°-180°	4922.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799126

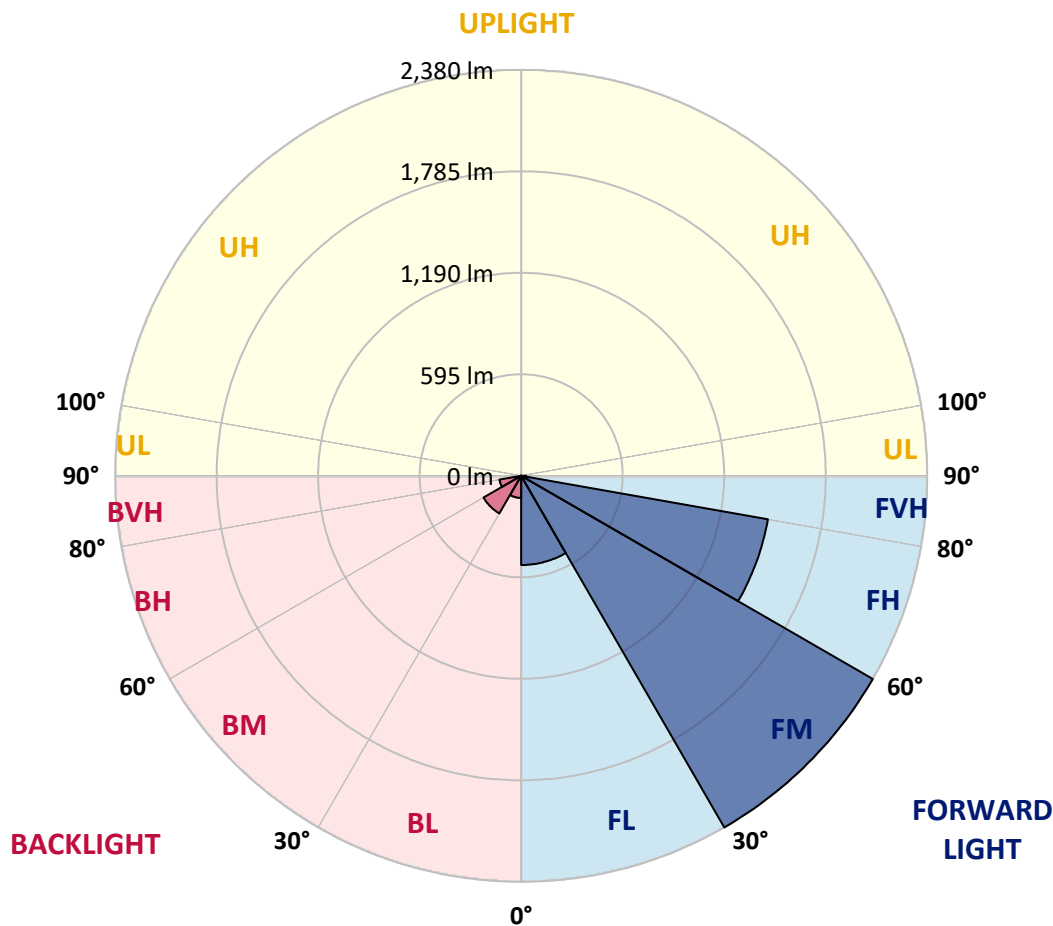
CATALOG NUMBER: ARCH1-60-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.0	10.6			
FM	(30°-60°)	2380.3	48.4			
FH	(60°-80°)	1468.8	29.8			G1/1800
FVH	(80°-90°)	29.3	0.6			G1/100
BL	(0°-30°)	130.0	2.6	B1/500		
BM	(30°-60°)	254.6	5.2	B1/1000		
BH	(60°-80°)	129.6	2.6	B1/500		G1/500
BVH	(80°-90°)	6.3	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: P799126

CATALOG NUMBER: ARCH1-60-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4
2.5°	760.8	767.0	770.1	771.1	747.4	737.1	726.8	703.0	697.9	684.4	666.9
5°	895.0	903.3	901.2	897.1	868.2	835.2	808.3	763.9	756.7	724.7	685.5
7.5°	1027.2	1034.4	1032.3	1016.8	984.8	938.4	894.0	829.0	818.6	767.0	704.0
10°	1137.6	1143.8	1142.8	1127.3	1089.1	1032.3	978.6	891.9	879.5	806.2	719.5
12.5°	1228.5	1236.7	1235.7	1225.4	1191.3	1129.4	1068.5	964.2	948.7	853.7	741.2
15°	1299.7	1310.0	1310.0	1305.9	1282.2	1230.5	1161.4	1043.7	1025.1	908.4	768.1
17.5°	1343.1	1351.3	1358.5	1365.8	1349.3	1310.0	1247.1	1123.2	1103.6	962.1	795.9
20°	1365.8	1374.0	1379.2	1394.7	1397.8	1378.2	1328.6	1201.6	1181.0	1023.0	827.9
22.5°	1402.9	1410.2	1411.2	1424.6	1430.8	1436.0	1405.0	1279.1	1262.5	1090.1	864.1
25°	1464.9	1473.1	1470.0	1476.2	1477.3	1483.5	1480.4	1367.8	1351.3	1166.5	907.4
27.5°	1544.4	1554.7	1552.6	1546.4	1537.1	1532.0	1545.4	1457.6	1442.2	1242.9	951.8
30°	1630.0	1642.4	1639.3	1627.0	1602.2	1580.5	1599.1	1542.3	1527.8	1321.4	1001.4
32.5°	1716.8	1731.2	1730.2	1709.5	1667.2	1630.0	1657.9	1621.8	1611.5	1406.0	1055.0
35°	1773.5	1792.1	1790.1	1777.7	1723.0	1691.0	1725.0	1703.3	1696.1	1509.3	1132.5
37.5°	1865.4	1885.0	1867.5	1836.5	1773.5	1757.0	1798.3	1795.2	1790.1	1618.7	1214.0
40°	2088.4	2117.3	2070.9	1943.9	1840.6	1826.2	1885.0	1897.4	1892.3	1727.1	1287.3
42.5°	2321.7	2365.1	2292.8	2117.3	1962.5	1909.8	1980.0	1997.6	1991.4	1820.0	1353.4
45°	2463.1	2481.7	2409.5	2273.2	2178.2	2011.0	2081.2	2110.1	2104.9	1931.5	1438.0
47.5°	2578.8	2571.5	2488.9	2397.1	2414.6	2153.4	2195.8	2252.5	2248.4	2054.3	1530.9
50°	2603.5	2587.0	2554.0	2496.2	2542.6	2298.0	2316.5	2414.6	2410.5	2190.6	1624.9
52.5°	2429.1	2407.4	2497.2	2545.7	2530.2	2403.3	2449.7	2592.2	2590.1	2338.2	1714.7
55°	1993.4	1975.9	2217.4	2468.3	2516.8	2477.6	2597.3	2777.0	2788.3	2495.1	1796.3
57.5°	1568.1	1549.5	1787.0	2274.2	2467.3	2545.7	2769.7	2988.6	3003.0	2665.5	1873.7
60°	1250.2	1222.3	1404.0	1968.7	2374.4	2598.4	2935.9	3220.9	3222.9	2821.4	1921.2
62.5°	849.6	818.6	1019.9	1581.5	2218.5	2606.6	3064.0	3421.1	3429.4	2938.0	1929.4
65°	516.2	490.4	626.6	1155.2	1988.3	2536.4	3066.0	3568.8	3576.0	2991.7	1879.9
67.5°	299.4	289.1	358.2	719.5	1606.3	2347.5	2937.0	3546.1	3559.5	2969.0	1767.3
70°	174.5	173.4	199.2	356.2	1133.5	1972.8	2649.0	3355.1	3374.7	2850.3	1594.9
72.5°	128.0	130.1	140.4	191.0	656.6	1420.5	2243.3	2971.0	3001.0	2618.0	1349.3
75°	101.2	102.2	111.5	130.1	344.8	803.2	1680.6	2384.7	2408.4	2204.0	1054.0
77.5°	75.4	77.4	84.7	91.9	160.0	368.5	945.6	1469.0	1429.8	1209.9	508.9
80°	54.7	59.9	63.0	66.1	84.7	142.5	283.9	512.0	507.9	528.6	240.5
82.5°	35.1	39.2	42.3	44.4	50.6	68.1	84.7	114.6	123.9	205.4	96.0
85°	15.5	17.5	19.6	23.7	21.7	23.7	35.1	22.7	19.6	31.0	17.5
87.5°	0.0	0.0	3.1	5.2	4.1	2.1	6.2	4.1	3.1	3.1	3.1
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: P799126

CATALOG NUMBER: ARCH1-60-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4
2.5°	657.6	646.2	622.5	599.8	586.4	568.8	553.3	538.9	537.8	533.7	526.5
5°	665.9	644.2	599.8	557.5	525.5	491.4	462.5	439.8	431.5	425.3	417.1
7.5°	674.1	640.0	574.0	512.0	461.5	414.0	379.9	348.9	339.6	331.4	326.2
10°	677.2	632.8	544.0	461.5	395.4	344.8	308.7	286.0	277.7	273.6	270.5
12.5°	686.5	628.7	516.2	414.0	337.6	291.1	265.3	251.9	248.8	245.7	242.6
15°	698.9	628.7	488.3	367.5	292.1	255.0	239.5	230.2	228.1	227.1	225.0
17.5°	712.3	628.7	461.5	328.3	259.1	231.2	219.9	214.7	213.7	212.7	211.6
20°	730.9	629.7	432.5	294.2	235.4	213.7	204.4	198.2	197.2	196.1	196.1
22.5°	749.5	631.8	404.7	268.4	219.9	200.3	188.9	182.7	180.7	180.7	180.7
25°	773.2	638.0	378.9	246.7	206.5	187.9	173.4	168.3	167.2	167.2	166.2
27.5°	801.1	645.2	356.2	230.2	193.0	173.4	159.0	153.8	151.8	151.8	150.7
30°	831.0	652.4	337.6	217.8	179.6	159.0	145.6	139.4	137.3	138.3	137.3
32.5°	864.1	662.8	323.1	209.6	167.2	146.6	134.2	127.0	125.9	125.9	124.9
35°	919.8	691.7	321.1	205.4	156.9	137.3	124.9	117.7	116.7	116.7	115.6
37.5°	979.7	724.7	330.3	203.4	148.7	129.0	117.7	110.5	109.4	109.4	109.4
40°	1030.3	749.5	340.7	203.4	143.5	121.8	111.5	105.3	105.3	105.3	105.3
42.5°	1064.3	751.5	338.6	203.4	139.4	116.7	107.4	101.2	101.2	102.2	101.2
45°	1114.9	761.9	330.3	200.3	136.3	112.5	103.2	98.1	97.0	98.1	98.1
47.5°	1174.8	780.4	322.1	187.9	135.2	108.4	100.1	93.9	92.9	93.9	92.9
50°	1231.6	797.0	318.0	171.4	133.2	104.3	96.0	89.8	88.8	89.8	88.8
52.5°	1279.1	804.2	310.7	160.0	128.0	100.1	91.9	85.7	83.6	84.7	84.7
55°	1317.3	802.1	300.4	150.7	118.7	96.0	86.7	81.6	78.5	78.5	77.4
57.5°	1352.4	803.2	291.1	141.4	108.4	89.8	82.6	76.4	72.3	71.2	70.2
60°	1365.8	798.0	274.6	129.0	98.1	84.7	77.4	70.2	66.1	65.0	64.0
62.5°	1347.2	779.4	252.9	107.4	88.8	78.5	72.3	65.0	60.9	59.9	58.8
65°	1294.5	744.3	219.9	84.7	80.5	71.2	66.1	60.9	55.7	53.7	52.6
67.5°	1204.7	693.7	178.6	68.1	71.2	65.0	61.9	55.7	49.6	47.5	46.5
70°	1076.7	626.6	134.2	57.8	63.0	57.8	55.7	49.6	44.4	42.3	41.3
72.5°	897.1	518.2	93.9	49.6	54.7	50.6	48.5	44.4	39.2	36.1	36.1
75°	678.2	371.6	61.9	42.3	45.4	43.4	40.3	37.2	34.1	32.0	31.0
77.5°	292.1	144.5	38.2	32.0	37.2	36.1	32.0	29.9	28.9	26.8	26.8
80°	125.9	58.8	23.7	23.7	26.8	25.8	24.8	22.7	22.7	21.7	20.6
82.5°	46.5	23.7	14.5	17.5	19.6	17.5	17.5	17.5	17.5	16.5	16.5
85°	11.4	7.2	7.2	10.3	11.4	10.3	11.4	10.3	10.3	10.3	9.3
87.5°	3.1	3.1	4.1	4.1	4.1	4.1	4.1	3.1	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)