

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: P798966

Luminaire Tested: **ARCH1-50-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798966
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: ARCH1-50-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3973 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

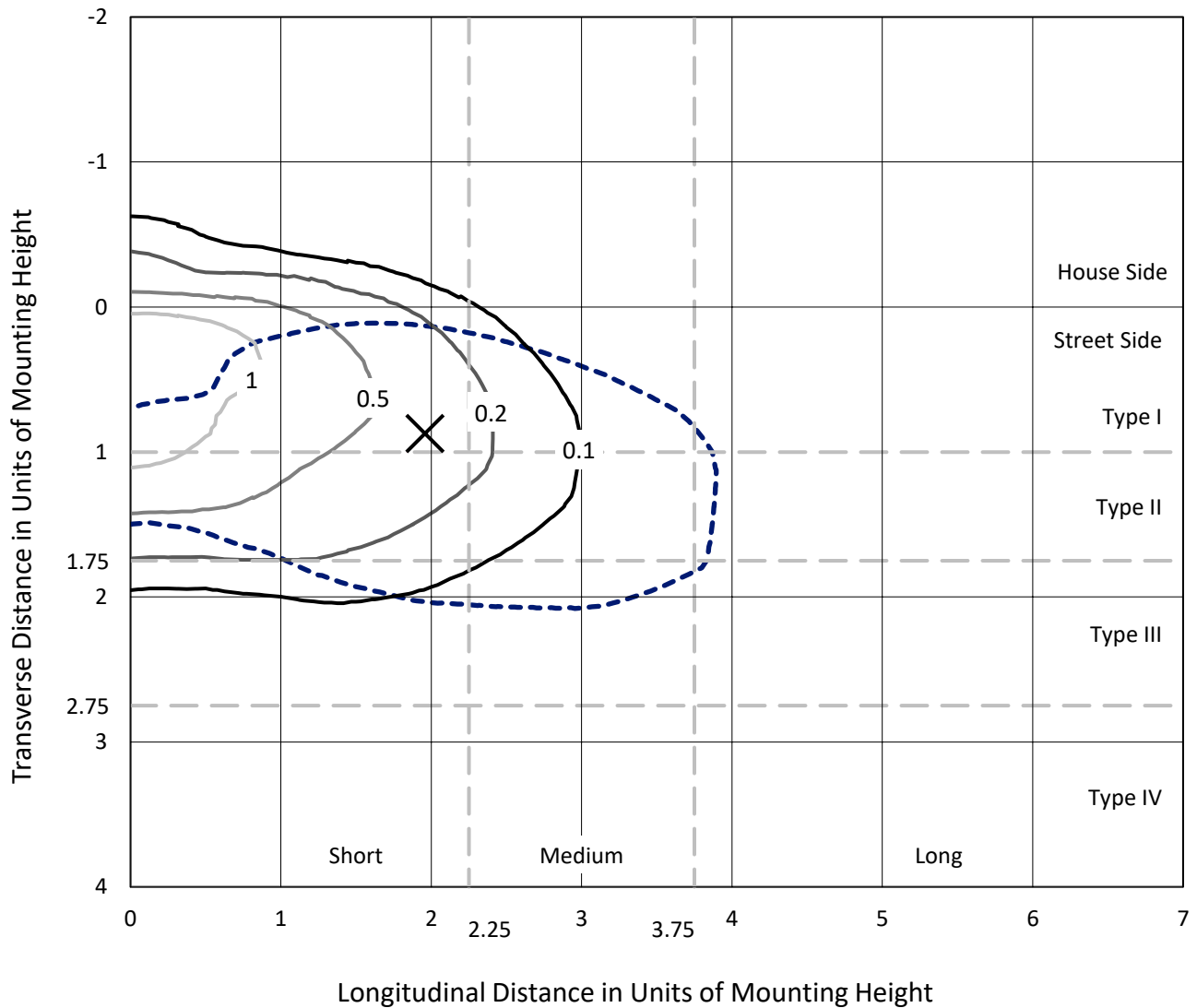
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P798966
 CATALOG NUMBER: ARCH1-50-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

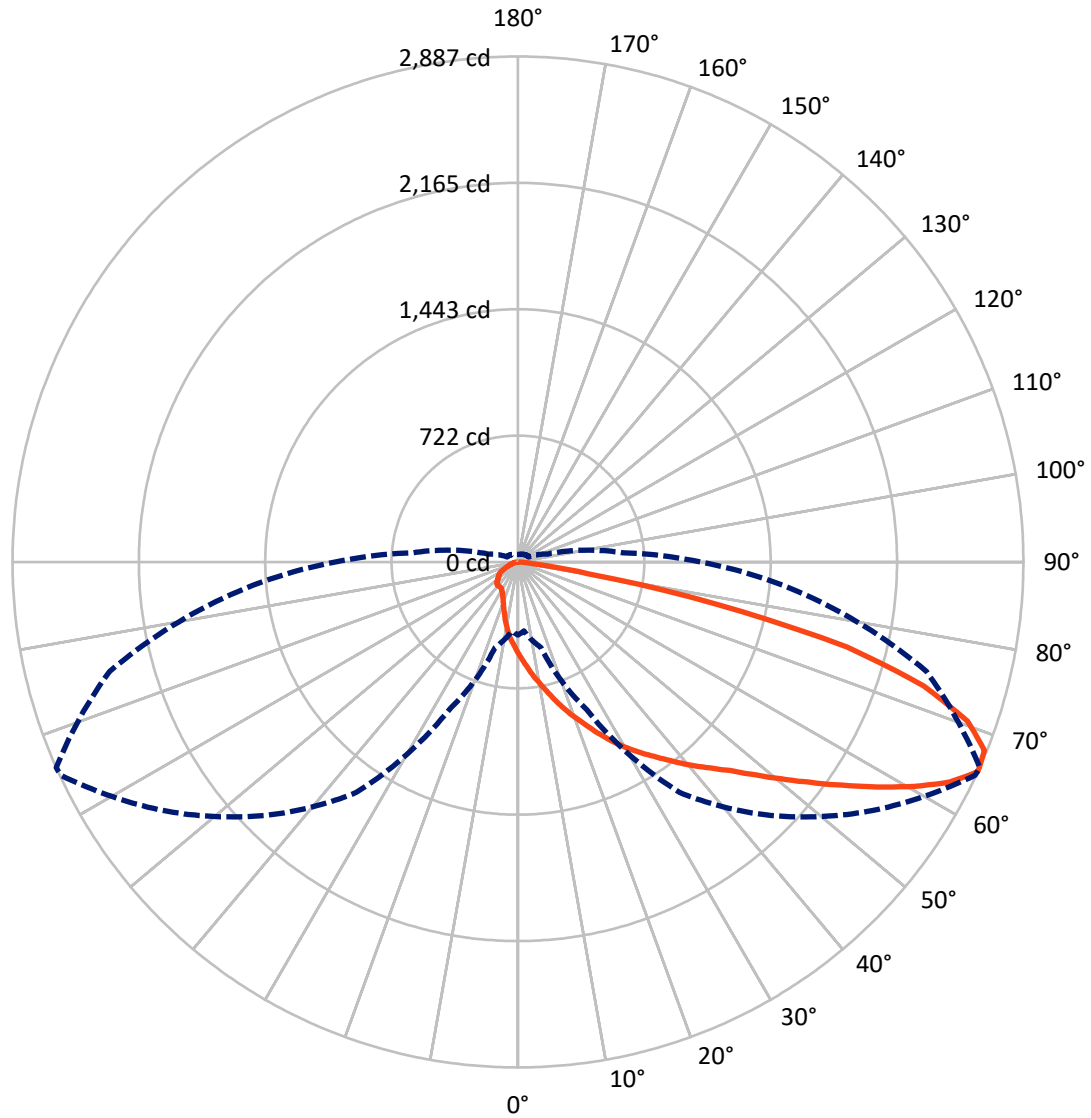
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

REPORT NUMBER: P798966
CATALOG NUMBER: ARCH1-50-722-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: ARCH1-50-722-U-T3-HSS

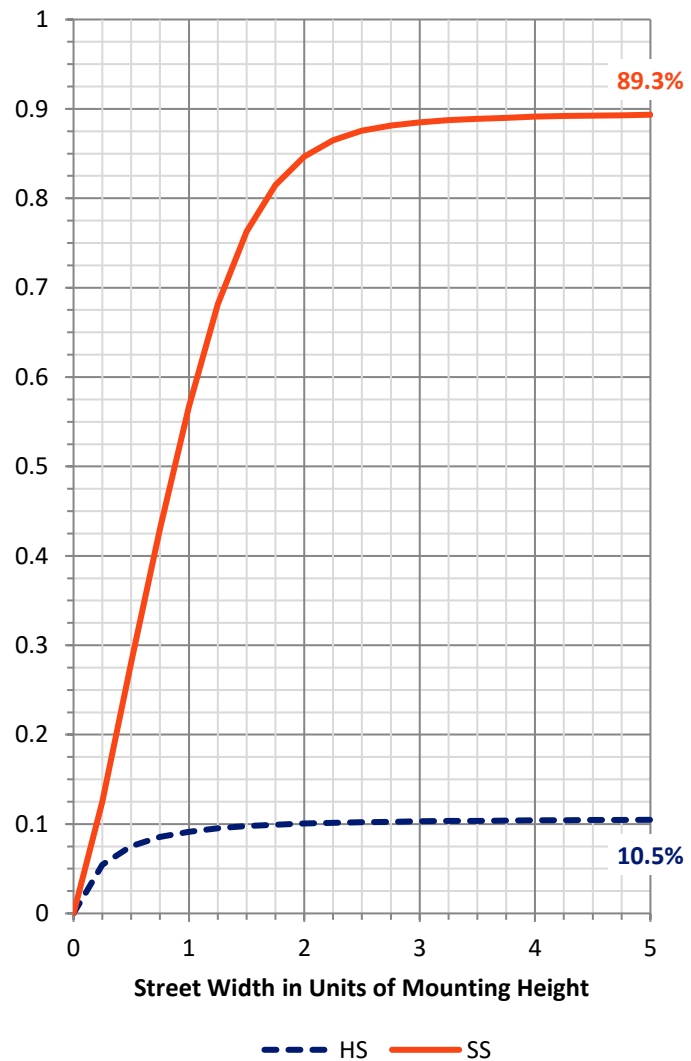
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	420.2	0.0	420.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3552.8	0.0	3552.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	3973.0	0.0	3973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.3
10°-20°	169.1	4.3
20°-30°	306.0	7.7
30°-40°	478.6	12.0
40°-50°	726.0	18.3
50°-60°	922.4	23.2
60°-70°	861.9	21.7
70°-80°	428.3	10.8
80°-90°	28.8	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°	3973.0	100.0
0°-180°	3973.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798966

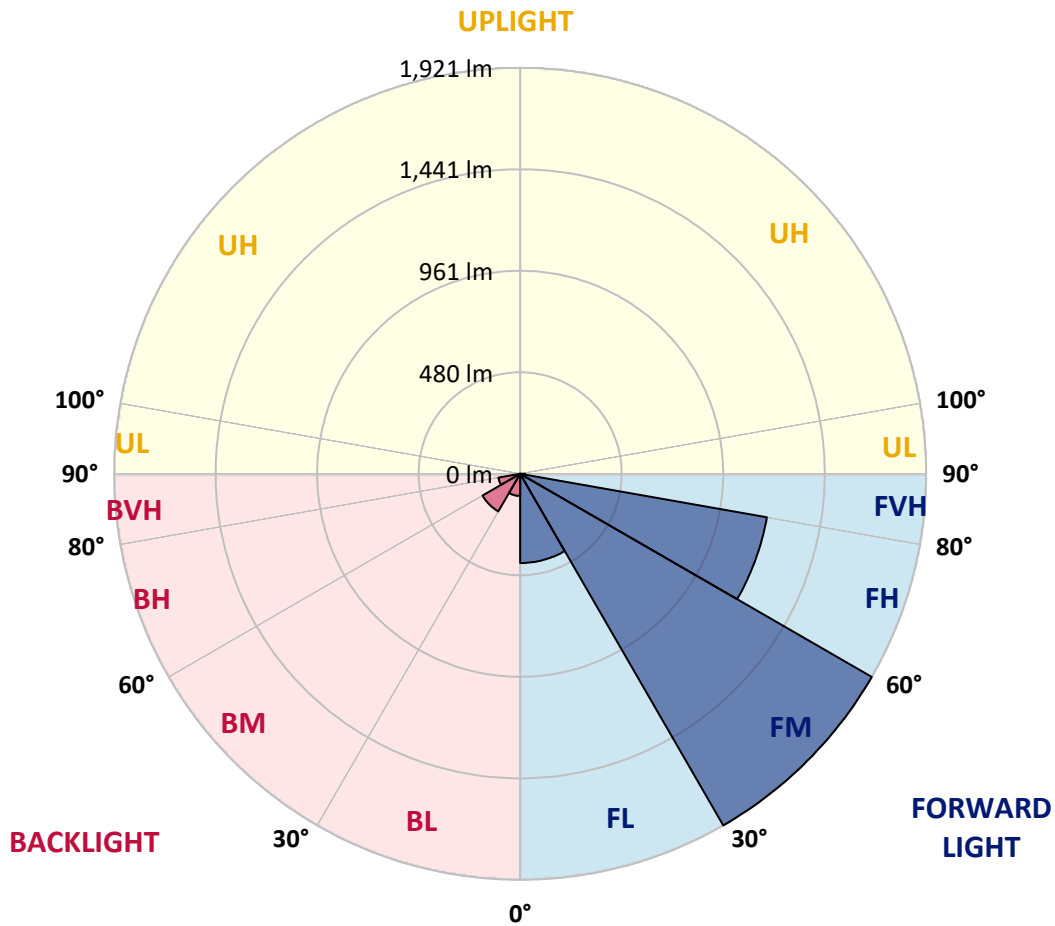
CATALOG NUMBER: ARCH1-50-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.1	10.6			
FM (30°-60°)	1921.4	48.4			
FH (60°-80°)	1185.6	29.8			G1/1800
FVH (80°-90°)	23.7	0.6			G1/100
BL (0°-30°)	105.0	2.6	B0/110		
BM (30°-60°)	205.5	5.2	B0/220		
BH (60°-80°)	104.7	2.6	B0/110		G0/110
BVH (80°-90°)	5.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



REPORT NUMBER: P798966
 CATALOG NUMBER: ARCH1-50-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8
2.5°	614.1	619.1	621.6	622.5	603.3	595.0	586.6	567.5	563.3	552.5	538.3
5°	722.5	729.1	727.5	724.1	700.8	674.1	652.5	616.6	610.8	585.0	553.3
7.5°	829.1	835.0	833.3	820.8	795.0	757.5	721.6	669.1	660.8	619.1	568.3
10°	918.3	923.3	922.4	910.0	879.1	833.3	790.0	720.0	710.0	650.8	580.8
12.5°	991.6	998.3	997.4	989.1	961.6	911.6	862.5	778.3	765.8	689.1	598.3
15°	1049.1	1057.4	1057.4	1054.1	1034.9	993.3	937.4	842.5	827.5	733.3	620.0
17.5°	1084.1	1090.8	1096.6	1102.4	1089.1	1057.4	1006.6	906.6	890.8	776.6	642.5
20°	1102.4	1109.1	1113.3	1125.8	1128.3	1112.4	1072.4	969.9	953.3	825.8	668.3
22.5°	1132.4	1138.3	1139.1	1149.9	1154.9	1159.1	1134.1	1032.4	1019.1	880.0	697.5
25°	1182.4	1189.1	1186.6	1191.6	1192.4	1197.4	1194.9	1104.1	1090.8	941.6	732.5
27.5°	1246.6	1254.9	1253.3	1248.3	1240.8	1236.6	1247.4	1176.6	1164.1	1003.3	768.3
30°	1315.8	1325.8	1323.3	1313.3	1293.3	1275.8	1290.8	1244.9	1233.3	1066.6	808.3
32.5°	1385.8	1397.4	1396.6	1379.9	1345.8	1315.8	1338.3	1309.1	1300.8	1134.9	851.6
35°	1431.6	1446.6	1444.9	1434.9	1390.8	1364.9	1392.4	1374.9	1369.1	1218.3	914.1
37.5°	1505.8	1521.6	1507.4	1482.4	1431.6	1418.3	1451.6	1449.1	1444.9	1306.6	979.9
40°	1685.7	1709.1	1671.6	1569.1	1485.8	1474.1	1521.6	1531.6	1527.4	1394.1	1039.1
42.5°	1874.1	1909.1	1850.7	1709.1	1584.1	1541.6	1598.2	1612.4	1607.4	1469.1	1092.4
45°	1988.2	2003.2	1944.9	1834.9	1758.2	1623.2	1679.9	1703.2	1699.1	1559.1	1160.8
47.5°	2081.6	2075.7	2009.1	1934.9	1949.1	1738.2	1772.4	1818.2	1814.9	1658.2	1235.8
50°	2101.6	2088.2	2061.6	2014.9	2052.4	1854.9	1869.9	1949.1	1945.7	1768.2	1311.6
52.5°	1960.7	1943.2	2015.7	2054.9	2042.4	1939.9	1977.4	2092.4	2090.7	1887.4	1384.1
55°	1609.1	1594.9	1789.9	1992.4	2031.6	1999.9	2096.6	2241.5	2250.7	2014.1	1449.9
57.5°	1265.8	1250.8	1442.4	1835.7	1991.6	2054.9	2235.7	2412.4	2424.0	2151.5	1512.4
60°	1009.1	986.6	1133.3	1589.1	1916.6	2097.4	2369.9	2599.9	2601.5	2277.4	1550.7
62.5°	685.8	660.8	823.3	1276.6	1790.7	2104.1	2473.2	2761.5	2768.2	2371.5	1557.4
65°	416.6	395.8	505.8	932.4	1604.9	2047.4	2474.9	2880.7	2886.5	2414.9	1517.4
67.5°	241.7	233.3	289.2	580.8	1296.6	1894.9	2370.7	2862.3	2873.2	2396.5	1426.6
70°	140.8	140.0	160.8	287.5	915.0	1592.4	2138.2	2708.2	2724.0	2300.7	1287.4
72.5°	103.3	105.0	113.3	154.2	530.0	1146.6	1810.7	2398.2	2422.4	2113.2	1089.1
75°	81.7	82.5	90.0	105.0	278.3	648.3	1356.6	1924.9	1944.1	1779.1	850.8
77.5°	60.8	62.5	68.3	74.2	129.2	297.5	763.3	1185.8	1154.1	976.6	410.8
80°	44.2	48.3	50.8	53.3	68.3	115.0	229.2	413.3	410.0	426.6	194.2
82.5°	28.3	31.7	34.2	35.8	40.8	55.0	68.3	92.5	100.0	165.8	77.5
85°	12.5	14.2	15.8	19.2	17.5	19.2	28.3	18.3	15.8	25.0	14.2
87.5°	0.0	0.0	2.5	4.2	3.3	1.7	5.0	3.3	2.5	2.5	2.5
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: P798966
 CATALOG NUMBER: ARCH1-50-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8
2.5°	530.8	521.6	502.5	484.1	473.3	459.1	446.6	435.0	434.1	430.8	425.0
5°	537.5	520.0	484.1	450.0	424.1	396.6	373.3	355.0	348.3	343.3	336.6
7.5°	544.1	516.6	463.3	413.3	372.5	334.1	306.6	281.7	274.2	267.5	263.3
10°	546.6	510.8	439.1	372.5	319.1	278.3	249.2	230.8	224.2	220.8	218.3
12.5°	554.1	507.5	416.6	334.1	272.5	235.0	214.2	203.3	200.8	198.3	195.8
15°	564.1	507.5	394.1	296.7	235.8	205.8	193.3	185.8	184.2	183.3	181.7
17.5°	575.0	507.5	372.5	265.0	209.2	186.7	177.5	173.3	172.5	171.7	170.8
20°	590.0	508.3	349.1	237.5	190.0	172.5	165.0	160.0	159.2	158.3	158.3
22.5°	605.0	510.0	326.6	216.7	177.5	161.7	152.5	147.5	145.8	145.8	145.8
25°	624.1	515.0	305.8	199.2	166.7	151.7	140.0	135.8	135.0	135.0	134.2
27.5°	646.6	520.8	287.5	185.8	155.8	140.0	128.3	124.2	122.5	122.5	121.7
30°	670.8	526.6	272.5	175.8	145.0	128.3	117.5	112.5	110.8	111.7	110.8
32.5°	697.5	535.0	260.8	169.2	135.0	118.3	108.3	102.5	101.7	101.7	100.8
35°	742.5	558.3	259.2	165.8	126.7	110.8	100.8	95.0	94.2	94.2	93.3
37.5°	790.8	585.0	266.7	164.2	120.0	104.2	95.0	89.2	88.3	88.3	88.3
40°	831.6	605.0	275.0	164.2	115.8	98.3	90.0	85.0	85.0	85.0	85.0
42.5°	859.1	606.6	273.3	164.2	112.5	94.2	86.7	81.7	81.7	82.5	81.7
45°	900.0	615.0	266.7	161.7	110.0	90.8	83.3	79.2	78.3	79.2	79.2
47.5°	948.3	630.0	260.0	151.7	109.2	87.5	80.8	75.8	75.0	75.8	75.0
50°	994.1	643.3	256.7	138.3	107.5	84.2	77.5	72.5	71.7	72.5	71.7
52.5°	1032.4	649.1	250.8	129.2	103.3	80.8	74.2	69.2	67.5	68.3	68.3
55°	1063.3	647.5	242.5	121.7	95.8	77.5	70.0	65.8	63.3	63.3	62.5
57.5°	1091.6	648.3	235.0	114.2	87.5	72.5	66.7	61.7	58.3	57.5	56.7
60°	1102.4	644.1	221.7	104.2	79.2	68.3	62.5	56.7	53.3	52.5	51.7
62.5°	1087.4	629.1	204.2	86.7	71.7	63.3	58.3	52.5	49.2	48.3	47.5
65°	1044.9	600.8	177.5	68.3	65.0	57.5	53.3	49.2	45.0	43.3	42.5
67.5°	972.4	560.0	144.2	55.0	57.5	52.5	50.0	45.0	40.0	38.3	37.5
70°	869.1	505.8	108.3	46.7	50.8	46.7	45.0	40.0	35.8	34.2	33.3
72.5°	724.1	418.3	75.8	40.0	44.2	40.8	39.2	35.8	31.7	29.2	29.2
75°	547.5	300.0	50.0	34.2	36.7	35.0	32.5	30.0	27.5	25.8	25.0
77.5°	235.8	116.7	30.8	25.8	30.0	29.2	25.8	24.2	23.3	21.7	21.7
80°	101.7	47.5	19.2	19.2	21.7	20.8	20.0	18.3	18.3	17.5	16.7
82.5°	37.5	19.2	11.7	14.2	15.8	14.2	14.2	14.2	14.2	13.3	13.3
85°	9.2	5.8	5.8	8.3	9.2	8.3	9.2	8.3	8.3	8.3	7.5
87.5°	2.5	2.5	3.3	3.3	3.3	3.3	3.3	2.5	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)