

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: P459558

Luminaire Tested: **ARCH-L-PA3-90-AMB-U-T2R-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-AMB-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3178 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 89.8
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: 28.75 FT

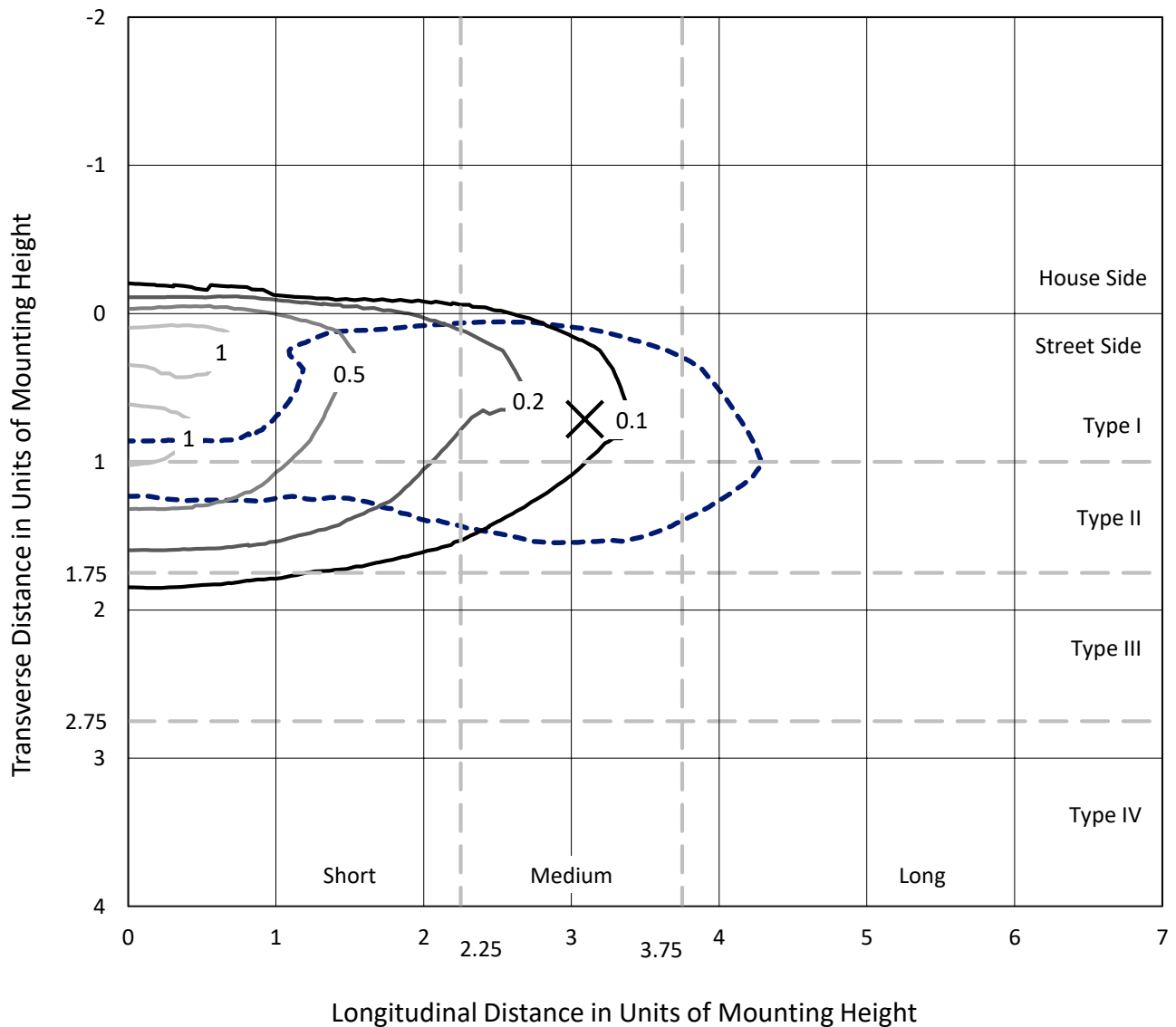


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Iso-Footcandle Lines of Horizontal Illumination

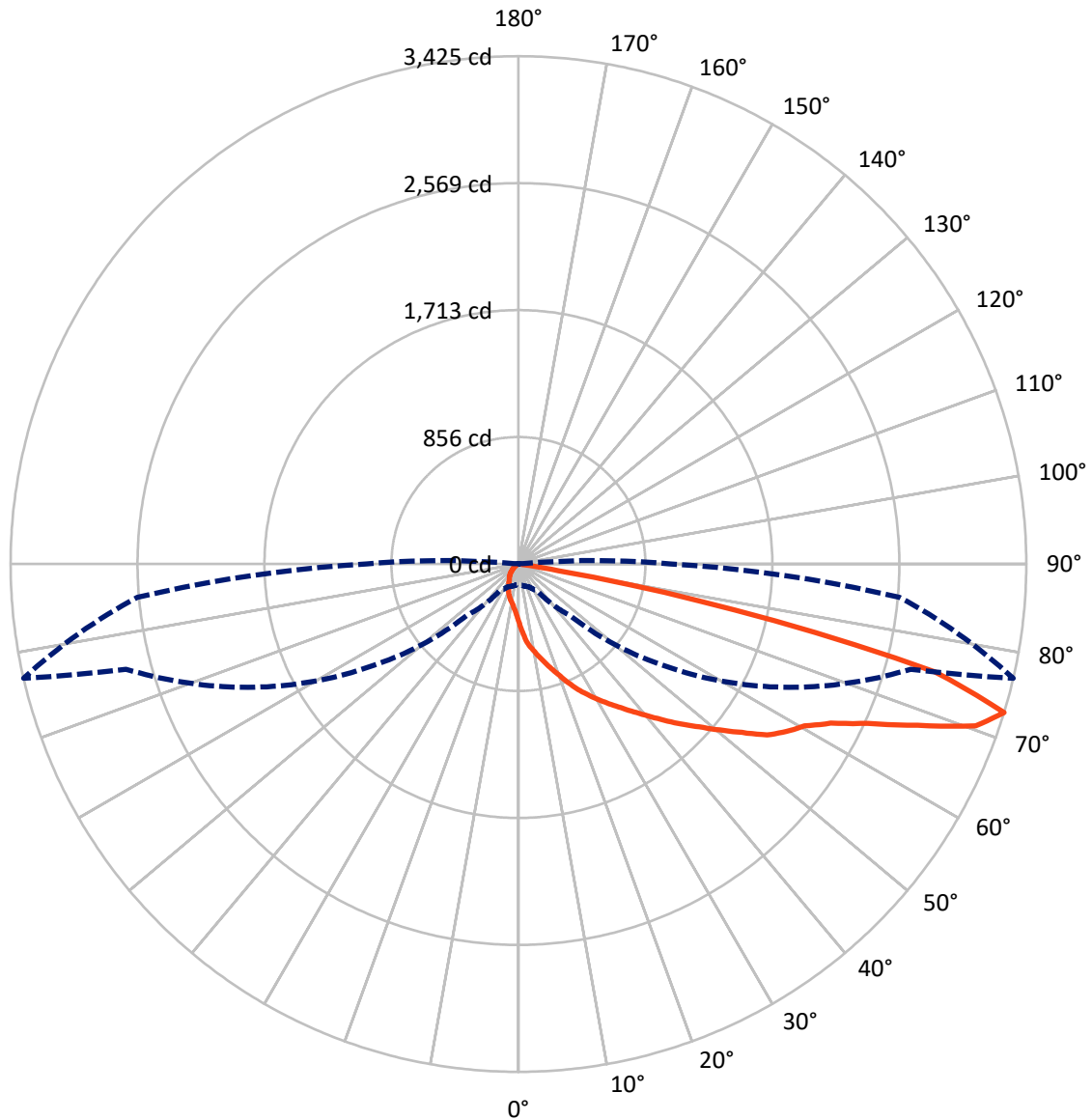
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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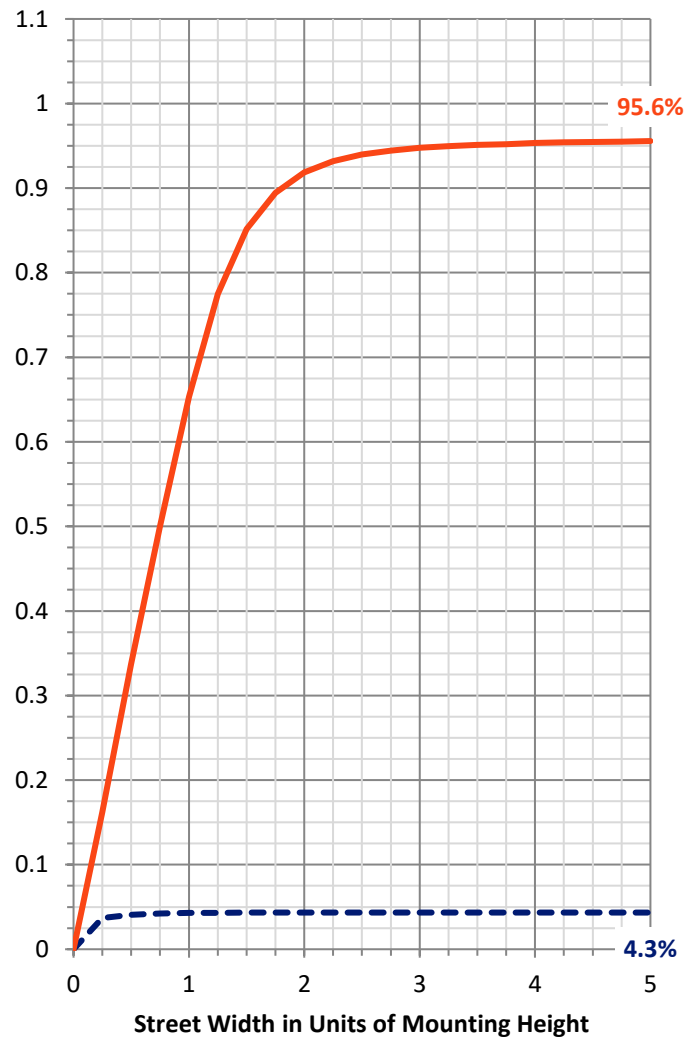
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	138.2	0.0	138.2
	% Fixture	4.3	0.0	4.3
Street Side	Lumens	3039.8	0.0	3039.8
	% Fixture	95.7	0.0	95.7
Total	Lumens	3178.0	0.0	3178.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.2
10°-20°	124.1	3.9
20°-30°	221.6	7.0
30°-40°	376.7	11.9
40°-50°	614.9	19.3
50°-60°	734.8	23.1
60°-70°	654.7	20.6
70°-80°	397.8	12.5
80°-90°	14.6	0.5
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°	3178.0	100.0
0°-180°	3178.0	100.0



--- HS — SS

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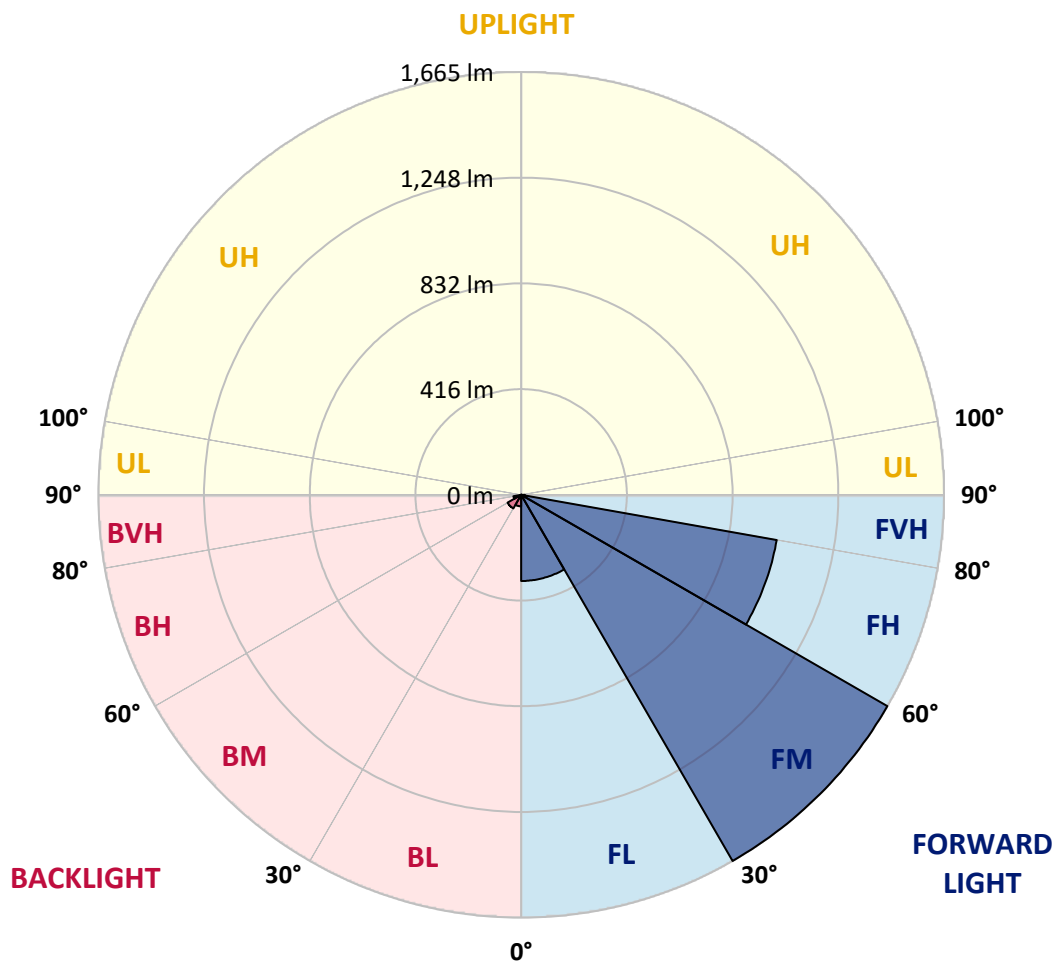
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.1	10.7			
FM	(30°-60°)	1664.6	52.4			
FH	(60°-80°)	1021.7	32.1			G1/1800
FVH	(80°-90°)	14.4	0.5			G1/100
BL	(0°-30°)	45.4	1.4	B0/110		
BM	(30°-60°)	61.8	1.9	B0/220		
BH	(60°-80°)	30.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3
2.5°	572.9	566.7	566.7	557.3	551.0	538.5	522.8	497.8	454.0	447.7	416.4
5°	657.5	654.3	651.2	635.5	626.1	613.6	591.7	563.5	526.0	513.4	444.6
7.5°	720.1	716.9	713.8	710.7	701.3	682.5	654.3	616.8	572.9	563.5	482.1
10°	751.4	751.4	751.4	754.5	748.2	738.9	716.9	670.0	613.6	601.1	516.6
12.5°	760.8	763.9	770.2	788.9	792.1	795.2	773.3	729.5	660.6	648.1	557.3
15°	735.7	742.0	751.4	773.3	807.7	842.2	842.2	795.2	713.8	698.2	601.1
17.5°	732.6	735.7	748.2	770.2	801.5	851.6	882.9	860.9	770.2	751.4	641.8
20°	735.7	735.7	748.2	773.3	810.9	857.8	901.6	911.0	835.9	807.7	688.8
22.5°	748.2	751.4	760.8	785.8	835.9	876.6	911.0	945.5	898.5	873.5	732.6
25°	782.7	782.7	788.9	804.6	854.7	911.0	939.2	970.5	954.9	939.2	779.5
27.5°	829.6	823.4	829.6	845.3	879.7	948.6	976.8	989.3	1008.1	998.7	835.9
30°	926.7	923.6	904.8	882.9	911.0	979.9	1026.9	1011.2	1055.1	1061.3	879.7
32.5°	1058.2	1055.1	1030.0	973.7	951.7	1011.2	1080.1	1055.1	1102.0	1123.9	929.8
35°	1252.3	1249.2	1205.3	1108.3	1033.1	1051.9	1133.3	1108.3	1152.1	1189.7	989.3
37.5°	1458.9	1455.8	1393.2	1283.6	1155.2	1111.4	1192.8	1174.0	1202.2	1264.8	1048.8
40°	1615.5	1612.3	1565.4	1468.3	1311.8	1208.5	1252.3	1252.3	1261.7	1346.2	1114.5
42.5°	1740.7	1737.6	1700.0	1609.2	1468.3	1324.3	1324.3	1333.7	1330.6	1440.1	1180.3
45°	1825.2	1812.7	1800.2	1721.9	1593.5	1455.8	1412.0	1418.2	1408.8	1540.3	1258.6
47.5°	1850.3	1850.3	1850.3	1815.8	1684.3	1574.8	1515.3	1505.9	1496.5	1640.5	1346.2
50°	1787.6	1793.9	1840.9	1865.9	1750.1	1671.8	1618.6	1593.5	1593.5	1759.5	1455.8
52.5°	1458.9	1468.3	1653.0	1800.2	1797.0	1721.9	1718.8	1684.3	1700.0	1887.8	1577.9
55°	1051.9	1083.2	1280.5	1593.5	1784.5	1753.2	1790.8	1778.3	1815.8	2035.0	1671.8
57.5°	860.9	860.9	964.3	1283.6	1628.0	1762.6	1859.6	1850.3	1891.0	2132.0	1743.8
60°	676.2	691.9	751.4	967.4	1368.1	1684.3	1844.0	1869.0	1925.4	2216.6	1844.0
62.5°	513.4	529.1	585.4	732.6	1067.6	1512.1	1797.0	1865.9	1984.9	2363.7	2000.5
65°	378.8	378.8	416.4	519.7	792.1	1283.6	1756.3	1909.7	2113.2	2589.1	2185.2
67.5°	266.1	266.1	297.4	360.0	541.6	1033.1	1659.3	2000.5	2297.9	2902.2	2426.3
70°	184.7	187.8	209.8	244.2	338.1	723.2	1468.3	2056.9	2557.8	3271.6	2642.3
72.5°	140.9	140.9	153.4	169.1	219.2	488.4	1189.7	1966.1	2739.4	3425.0	2579.7
75°	65.7	65.7	106.4	125.2	150.3	322.5	857.8	1571.6	2523.4	2899.0	1865.9
77.5°	53.2	53.2	56.4	93.9	100.2	181.6	400.7	760.8	1446.4	1490.2	716.9
80°	34.4	34.4	43.8	50.1	50.1	93.9	119.0	156.5	319.3	272.4	97.1
82.5°	25.0	21.9	25.0	37.6	47.0	50.1	21.9	25.0	28.2	25.0	15.7
85°	9.4	9.4	18.8	31.3	28.2	12.5	9.4	9.4	12.5	12.5	6.3
87.5°	3.1	3.1	12.5	12.5	18.8	6.3	6.3	3.1	6.3	6.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3
2.5°	394.5	372.6	335.0	309.9	281.8	263.0	247.3	234.8	231.7	222.3	225.4
5°	400.7	360.0	297.4	250.5	209.8	184.7	162.8	150.3	144.0	137.8	137.8
7.5°	413.3	353.8	266.1	203.5	159.7	131.5	106.4	97.1	87.7	84.5	84.5
10°	428.9	353.8	241.1	169.1	119.0	90.8	75.1	68.9	62.6	62.6	62.6
12.5°	454.0	356.9	222.3	137.8	87.7	68.9	62.6	59.5	56.4	56.4	56.4
15°	482.1	363.2	200.4	106.4	68.9	59.5	53.2	50.1	47.0	47.0	47.0
17.5°	516.6	372.6	178.5	84.5	59.5	53.2	47.0	43.8	40.7	40.7	40.7
20°	547.9	378.8	153.4	68.9	53.2	47.0	40.7	37.6	34.4	31.3	31.3
22.5°	585.4	388.2	122.1	59.5	50.1	40.7	34.4	31.3	28.2	25.0	25.0
25°	623.0	391.3	97.1	53.2	43.8	34.4	28.2	25.0	21.9	21.9	21.9
27.5°	651.2	391.3	78.3	47.0	37.6	28.2	25.0	21.9	18.8	18.8	18.8
30°	679.4	381.9	59.5	43.8	31.3	25.0	18.8	18.8	15.7	15.7	15.7
32.5°	707.5	366.3	53.2	37.6	28.2	21.9	15.7	15.7	12.5	12.5	12.5
35°	735.7	344.4	47.0	34.4	21.9	18.8	15.7	12.5	12.5	12.5	12.5
37.5°	763.9	319.3	40.7	28.2	18.8	15.7	12.5	12.5	12.5	9.4	9.4
40°	795.2	288.0	37.6	25.0	18.8	12.5	12.5	9.4	9.4	9.4	9.4
42.5°	835.9	253.6	34.4	21.9	15.7	12.5	9.4	9.4	9.4	9.4	9.4
45°	870.3	212.9	28.2	18.8	15.7	9.4	9.4	6.3	6.3	6.3	6.3
47.5°	917.3	169.1	25.0	15.7	12.5	9.4	6.3	6.3	6.3	6.3	6.3
50°	970.5	137.8	25.0	15.7	12.5	6.3	6.3	6.3	3.1	3.1	3.1
52.5°	1042.5	115.8	21.9	12.5	9.4	6.3	3.1	3.1	3.1	3.1	3.1
55°	1083.2	93.9	18.8	12.5	6.3	6.3	3.1	3.1	3.1	3.1	3.1
57.5°	1117.7	78.3	15.7	9.4	6.3	3.1	3.1	0.0	0.0	0.0	0.0
60°	1174.0	62.6	15.7	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0
62.5°	1239.8	53.2	12.5	9.4	3.1	3.1	0.0	0.0	0.0	0.0	0.0
65°	1305.5	47.0	9.4	6.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
67.5°	1355.6	43.8	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1318.0	37.6	9.4	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1023.7	31.3	6.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	482.1	21.9	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	103.3	12.5	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.8	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	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)