

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: P459563

Luminaire Tested: **ARCH-L-PA3-90-AMB-U-T3**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-6)
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-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077 lumens
Efficiency: N/A
Efficacy: 45.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

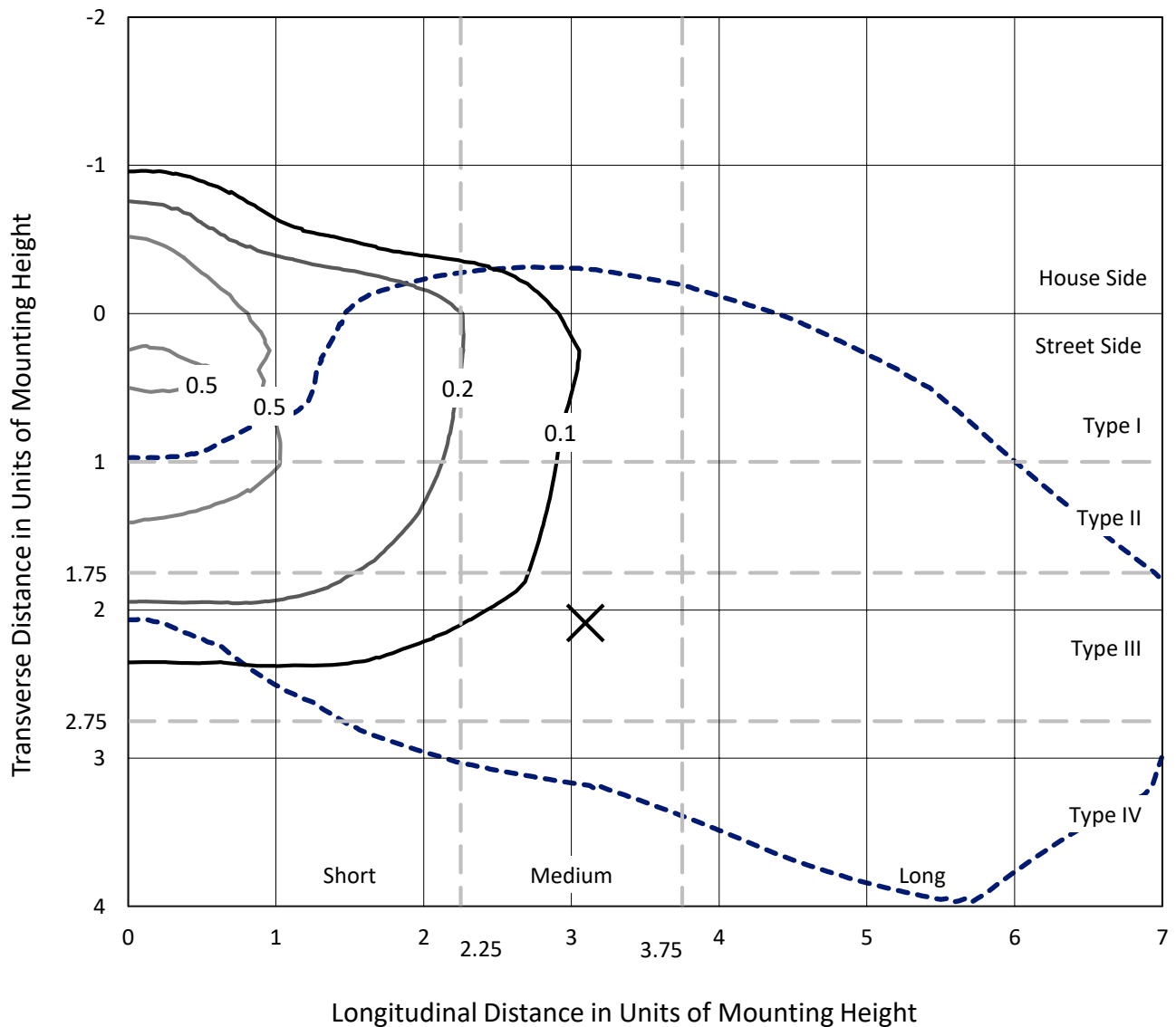
Input Watts (W): 89.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

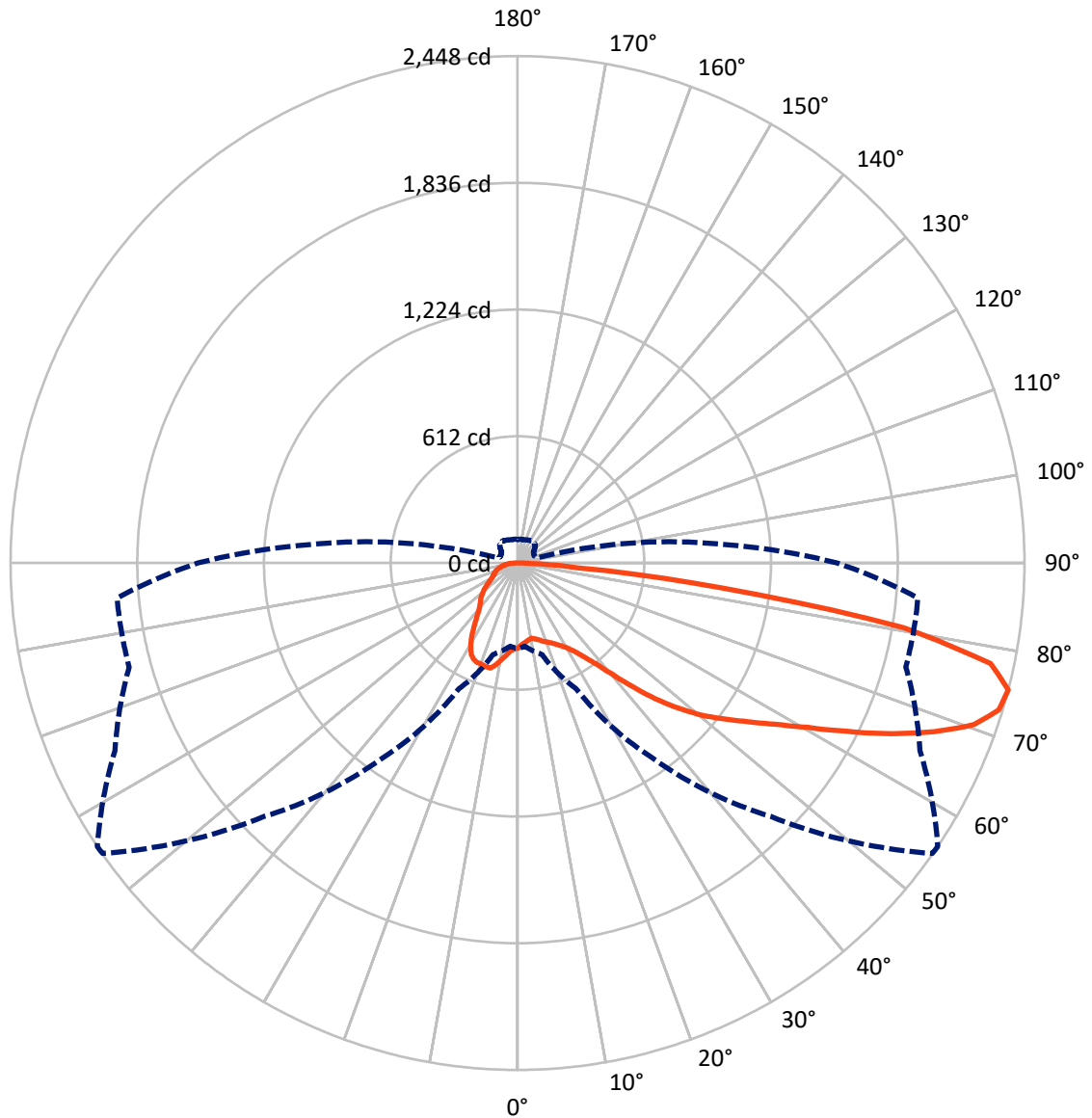


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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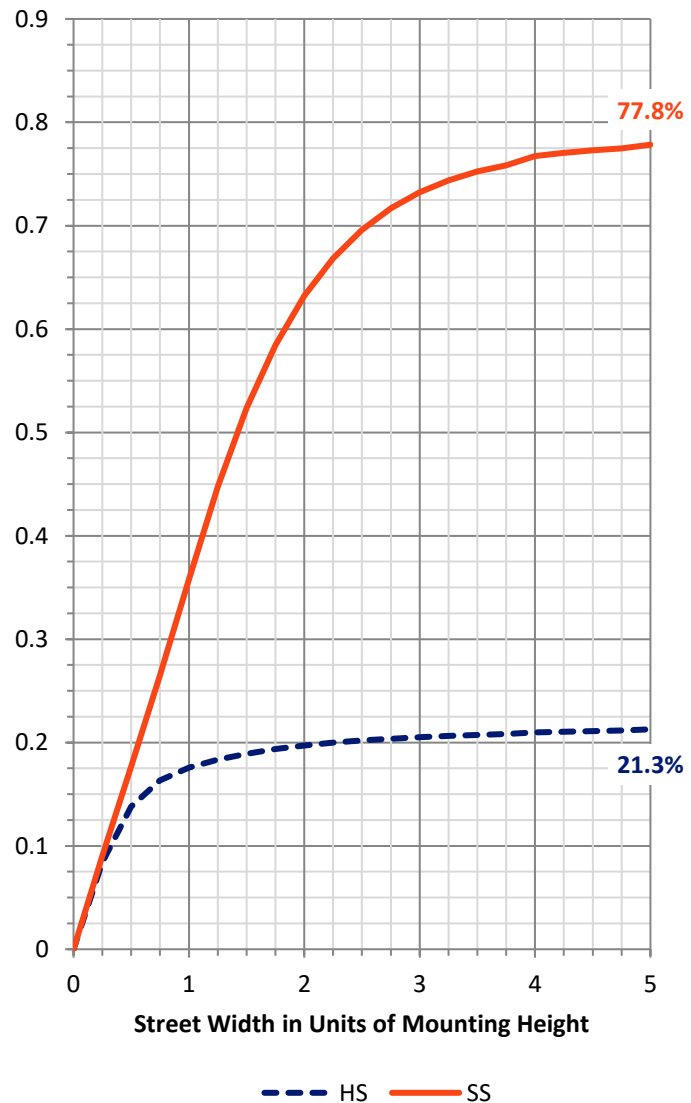
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	890.4	0.0	890.4
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	3186.6	0.0	3186.6
	% Fixture	78.2	0.0	78.2
Total	Lumens	4077.0	0.0	4077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.0
10°-20°	126.4	3.1
20°-30°	217.9	5.3
30°-40°	316.2	7.8
40°-50°	520.2	12.8
50°-60°	806.4	19.8
60°-70°	1014.0	24.9
70°-80°	839.7	20.6
80°-90°	196.7	4.8
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°	4077.0	100.0
0°-180°	4077.0	100.0



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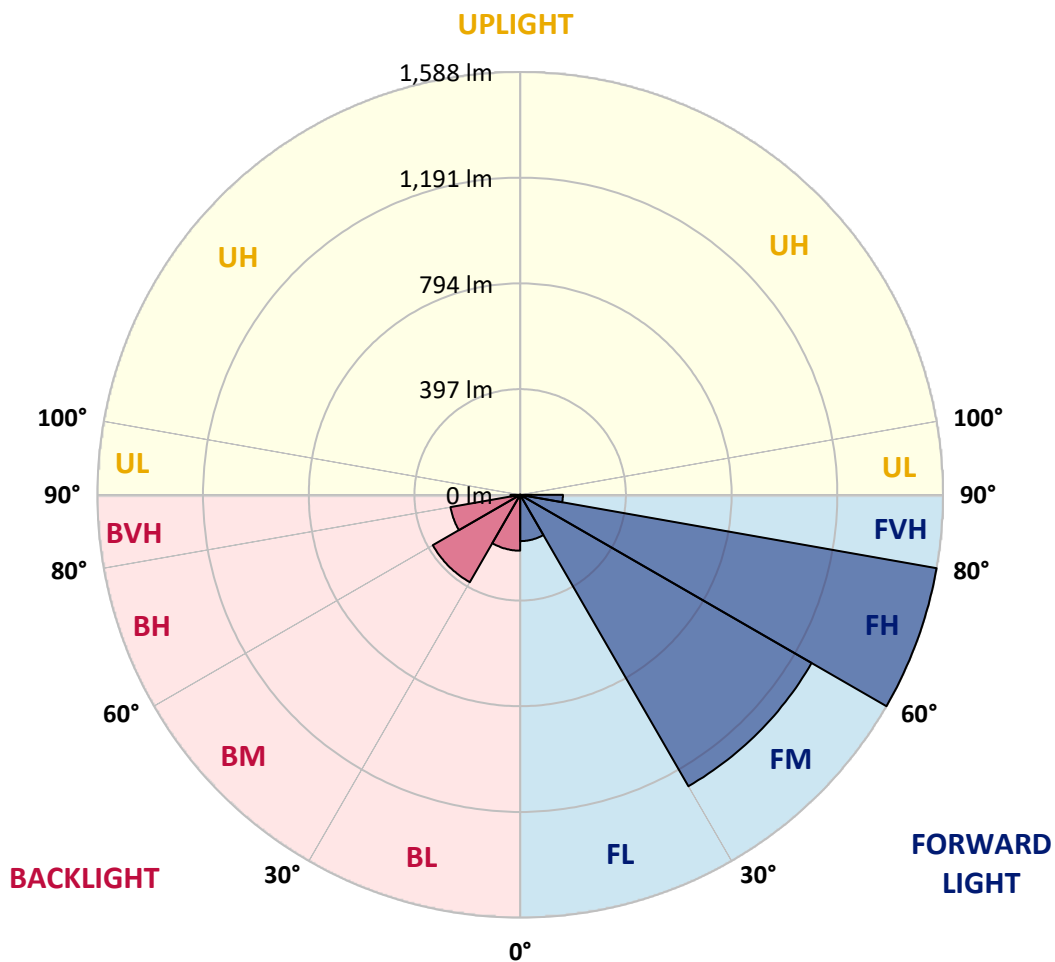
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.1	4.3			
FM	(30°-60°)	1263.8	31.0			
FH	(60°-80°)	1588.2	39.0			G1/1800
FVH	(80°-90°)	160.5	3.9			G2/225
BL	(0°-30°)	209.7	5.1	B1/500		
BM	(30°-60°)	379.0	9.3	B1/1000		
BH	(60°-80°)	265.6	6.5	B1/500		G1/500
BVH	(80°-90°)	36.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1
2.5°	391.3	391.3	391.3	391.3	394.5	394.5	394.5	394.5	397.6	397.6	400.7
5°	363.2	363.2	366.3	369.4	372.6	378.8	385.1	385.1	391.3	394.5	400.7
7.5°	350.6	350.6	353.8	356.9	360.0	363.2	375.7	375.7	385.1	397.6	407.0
10°	341.3	344.4	344.4	350.6	353.8	360.0	369.4	369.4	385.1	403.9	416.4
12.5°	341.3	341.3	341.3	344.4	347.5	356.9	375.7	375.7	391.3	416.4	432.1
15°	341.3	341.3	338.1	338.1	344.4	360.0	385.1	385.1	407.0	432.1	454.0
17.5°	338.1	338.1	335.0	335.0	344.4	363.2	394.5	397.6	422.7	454.0	475.9
20°	335.0	335.0	331.9	335.0	347.5	369.4	403.9	407.0	441.4	472.8	494.7
22.5°	347.5	344.4	338.1	341.3	353.8	378.8	416.4	419.5	460.2	494.7	516.6
25°	397.6	391.3	375.7	369.4	372.6	391.3	432.1	435.2	482.1	516.6	535.4
27.5°	460.2	454.0	438.3	422.7	407.0	416.4	450.8	454.0	507.2	541.6	557.3
30°	526.0	519.7	507.2	485.3	460.2	450.8	472.8	475.9	535.4	569.8	579.2
32.5°	585.5	582.3	563.5	544.8	526.0	504.1	510.3	510.3	560.4	594.9	601.1
35°	660.6	673.1	651.2	610.5	588.6	569.8	557.3	557.3	598.0	632.4	626.2
37.5°	735.7	748.3	760.8	691.9	660.6	638.7	623.0	619.9	648.1	676.3	660.6
40°	867.2	864.1	854.7	798.4	757.7	729.5	707.6	707.6	713.8	732.6	707.6
42.5°	1058.2	1070.7	1011.2	951.8	886.0	854.7	823.4	817.1	785.8	804.6	763.9
45°	1293.0	1283.6	1224.1	1130.2	1051.9	998.7	951.8	936.1	870.4	886.0	832.8
47.5°	1465.2	1440.2	1396.3	1308.7	1271.1	1174.0	1070.7	1048.8	951.8	970.5	920.5
50°	1618.6	1568.5	1512.2	1455.8	1468.3	1390.1	1183.4	1155.3	1039.4	1073.9	1011.2
52.5°	1693.8	1587.3	1574.8	1568.5	1587.3	1577.9	1283.6	1252.3	1149.0	1196.0	1114.6
55°	1587.3	1577.9	1599.8	1637.4	1690.6	1687.5	1383.8	1352.5	1283.6	1327.5	1230.4
57.5°	1499.7	1521.6	1596.7	1681.2	1815.9	1793.9	1490.3	1468.3	1440.2	1465.2	1355.6
60°	1437.0	1455.8	1571.7	1721.9	1916.0	1884.7	1634.3	1612.4	1606.1	1606.1	1493.4
62.5°	1318.1	1324.3	1477.7	1731.3	1934.8	1975.5	1793.9	1790.8	1784.6	1747.0	1646.8
65°	1170.9	1167.8	1324.3	1671.8	1950.5	2053.8	1994.3	1988.1	1963.0	1884.7	1831.5
67.5°	1008.1	1014.4	1145.9	1505.9	1903.5	2100.8	2175.9	2172.8	2113.3	2000.6	2013.1
70°	889.1	889.1	973.7	1302.4	1787.7	2103.9	2329.3	2338.7	2219.7	2044.4	2113.3
72.5°	701.3	695.0	770.2	1036.3	1565.4	2028.8	2429.5	2429.5	2210.3	2013.1	2107.0
75°	413.3	403.9	457.1	670.0	1161.5	1731.3	2445.2	2448.3	2144.6	1941.1	1941.1
77.5°	165.9	159.7	200.4	309.9	660.6	1224.1	2298.0	2335.6	2088.2	1856.6	1609.2
80°	72.0	68.9	90.8	128.4	294.3	572.9	1825.3	1891.0	1815.9	1634.3	1130.2
82.5°	47.0	47.0	62.6	75.1	159.7	172.2	986.2	992.5	1230.4	1192.8	576.1
85°	50.1	50.1	53.2	50.1	103.3	72.0	275.5	291.2	547.9	629.3	169.1
87.5°	28.2	25.0	59.5	28.2	56.4	31.3	62.6	65.7	109.6	112.7	34.4
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°	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1
2.5°	403.9	403.9	407.0	410.1	416.4	419.5	425.8	425.8	432.1	428.9	432.1
5°	403.9	407.0	410.1	419.5	425.8	435.2	444.6	450.8	457.1	460.2	460.2
7.5°	410.1	416.4	425.8	438.3	450.8	457.1	466.5	475.9	485.3	491.5	494.7
10°	422.7	428.9	441.4	457.1	475.9	488.4	500.9	507.2	510.3	513.5	513.5
12.5°	438.3	447.7	466.5	485.3	504.1	513.5	507.2	504.1	507.2	510.3	513.5
15°	460.2	472.8	491.5	510.3	526.0	510.3	510.3	519.7	529.1	532.2	535.4
17.5°	485.3	491.5	513.5	532.2	522.8	516.6	529.1	538.5	541.6	541.6	541.6
20°	504.1	513.5	532.2	538.5	516.6	526.0	535.4	538.5	535.4	535.4	532.2
22.5°	526.0	532.2	544.8	529.1	516.6	522.8	522.8	519.7	516.6	516.6	516.6
25°	544.8	547.9	551.0	516.6	510.3	504.1	494.7	491.5	485.3	482.1	485.3
27.5°	560.4	563.5	547.9	507.2	491.5	466.5	454.0	444.6	444.6	444.6	444.6
30°	576.1	569.8	544.8	491.5	454.0	416.4	397.6	394.5	400.7	403.9	403.9
32.5°	591.7	579.2	538.5	472.8	410.1	356.9	344.4	344.4	353.8	353.8	356.9
35°	613.6	594.9	538.5	444.6	360.0	306.8	297.4	294.3	294.3	297.4	297.4
37.5°	641.8	616.8	541.6	413.3	316.2	269.2	259.9	250.5	244.2	234.8	234.8
40°	679.4	644.9	538.5	382.0	281.8	244.2	228.5	216.0	206.6	194.1	194.1
42.5°	726.3	688.8	541.6	350.6	259.9	225.4	206.6	194.1	181.6	169.1	165.9
45°	792.1	738.9	541.6	322.5	247.3	212.9	194.1	178.5	169.1	159.7	156.5
47.5°	864.1	798.4	538.5	300.6	231.7	203.5	181.6	165.9	159.7	147.1	147.1
50°	948.6	870.4	529.1	288.0	212.9	191.0	172.2	156.5	144.0	140.9	137.8
52.5°	1048.8	961.2	519.7	266.1	194.1	178.5	162.8	147.1	144.0	137.8	137.8
55°	1174.0	1058.2	519.7	237.9	172.2	172.2	153.4	147.1	153.4	137.8	137.8
57.5°	1330.6	1152.1	507.2	200.4	153.4	162.8	153.4	153.4	162.8	137.8	134.6
60°	1512.2	1252.3	454.0	169.1	140.9	153.4	159.7	156.5	156.5	144.0	134.6
62.5°	1696.9	1365.0	356.9	147.1	131.5	150.3	159.7	150.3	140.9	140.9	140.9
65°	1856.6	1455.8	234.8	134.6	125.2	147.1	159.7	144.0	134.6	140.9	137.8
67.5°	1928.6	1487.1	159.7	122.1	119.0	144.0	150.3	137.8	128.4	144.0	140.9
70°	1878.5	1424.5	125.2	109.6	112.7	137.8	144.0	131.5	125.2	140.9	134.6
72.5°	1747.0	1268.0	106.4	100.2	103.3	128.4	137.8	128.4	122.1	128.4	122.1
75°	1543.5	1014.4	93.9	87.7	93.9	122.1	128.4	122.1	115.8	115.8	112.7
77.5°	1170.9	638.7	78.3	78.3	81.4	109.6	119.0	115.8	106.4	103.3	103.3
80°	720.1	291.2	65.7	68.9	72.0	100.2	109.6	106.4	100.2	97.1	93.9
82.5°	344.4	103.3	53.2	56.4	59.5	90.8	100.2	97.1	90.8	97.1	81.4
85°	97.1	56.4	37.6	43.8	47.0	72.0	84.5	87.7	81.4	75.1	72.0
87.5°	34.4	34.4	21.9	28.2	31.3	56.4	65.7	68.9	68.9	59.5	56.4
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)