

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: P459559

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-4)
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
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - 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

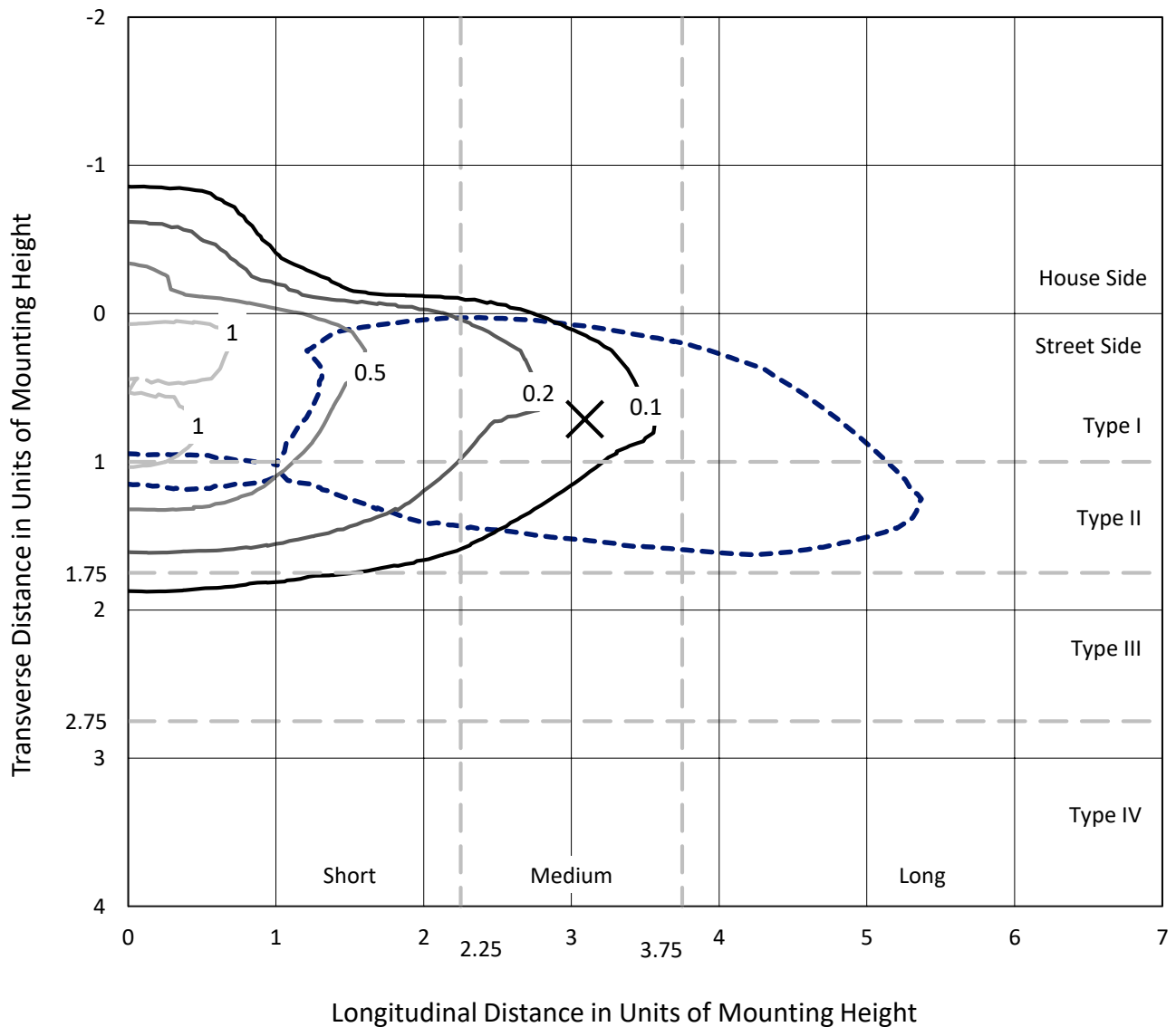


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

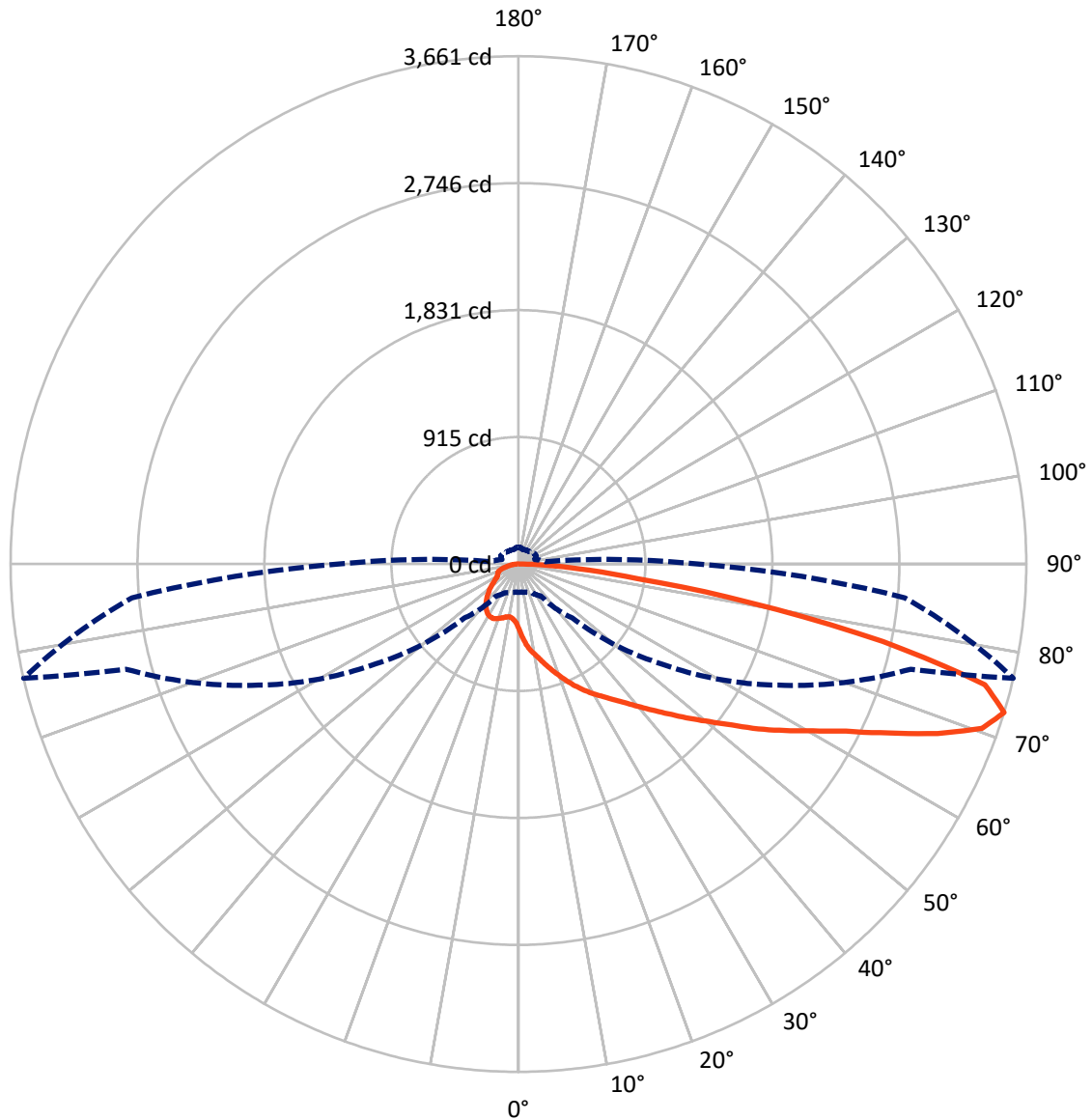


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - Non-Cutoff

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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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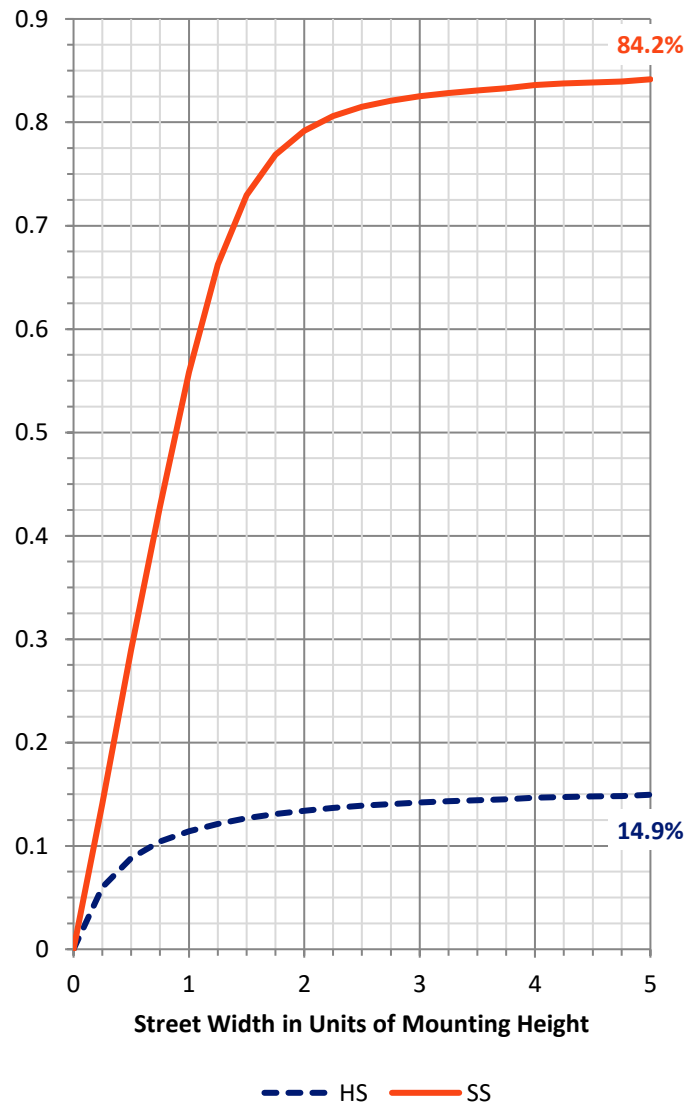
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	617.2	0.0	617.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3393.8	0.0	3393.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	4011.0	0.0	4011.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.2
10°-20°	171.0	4.3
20°-30°	294.4	7.3
30°-40°	457.9	11.4
40°-50°	699.6	17.4
50°-60°	830.2	20.7
60°-70°	795.6	19.8
70°-80°	578.7	14.4
80°-90°	133.5	3.3
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°	4011.0	100.0
0°-180°	4011.0	100.0



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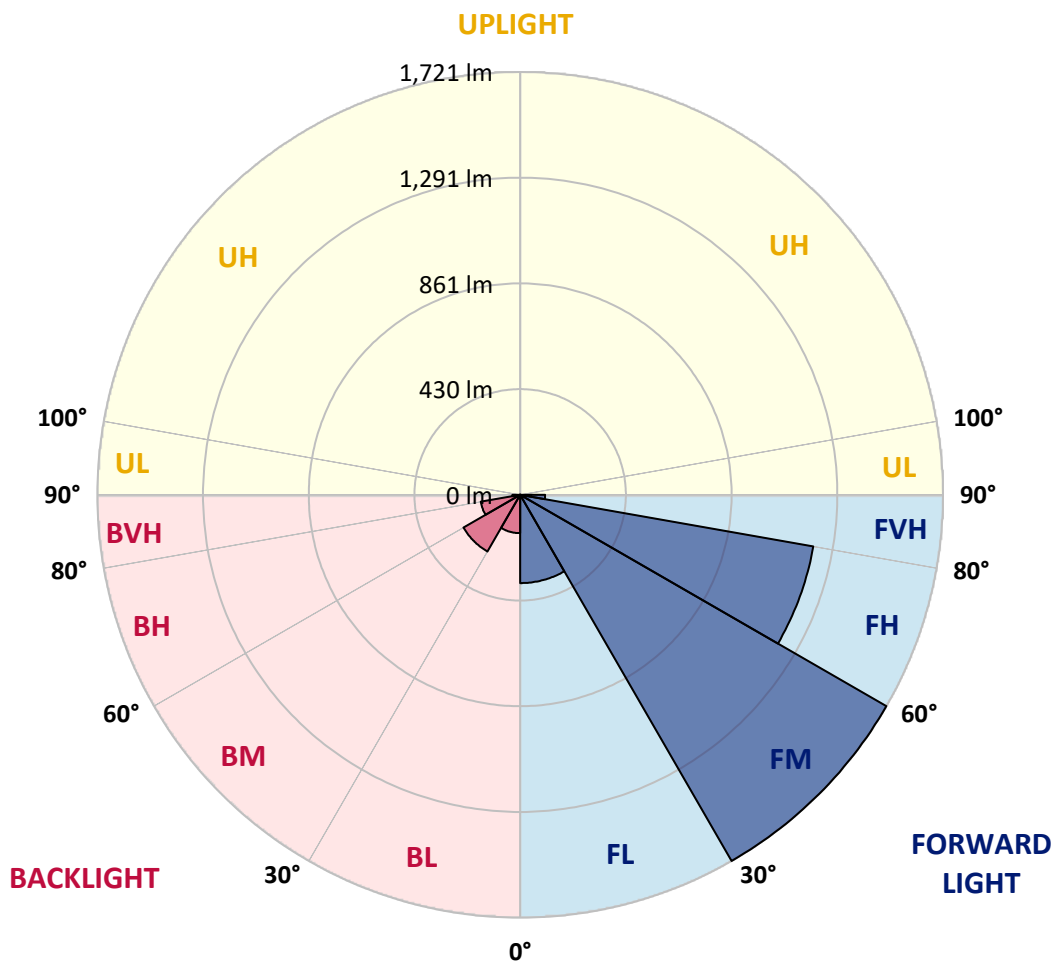
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.4	9.0			
FM (30°-60°)	1721.2	42.9			
FH (60°-80°)	1211.5	30.2			G1/1800
FVH (80°-90°)	101.6	2.5			G2/225
BL (0°-30°)	156.0	3.9	B1/500		
BM (30°-60°)	266.6	6.6	B1/1000		
BH (60°-80°)	162.8	4.1	B1/500		G1/500
BVH (80°-90°)	31.9	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6
2.5°	632.6	632.6	629.5	620.1	613.8	604.4	588.8	570.0	532.4	523.0	488.6
5°	710.9	707.8	707.8	695.3	685.9	670.2	651.4	629.5	591.9	582.5	519.9
7.5°	770.4	770.4	770.4	761.0	754.8	739.1	710.9	676.5	635.8	626.4	554.3
10°	801.7	804.9	804.9	804.9	804.9	792.3	773.6	729.7	673.3	663.9	591.9
12.5°	808.0	811.1	820.5	836.2	845.6	845.6	833.1	792.3	720.3	707.8	629.5
15°	776.7	779.8	792.3	820.5	855.0	886.3	889.4	855.0	773.6	757.9	670.2
17.5°	773.6	779.8	789.2	814.3	842.5	892.6	930.1	911.4	833.1	811.1	710.9
20°	776.7	779.8	789.2	817.4	861.2	895.7	942.7	955.2	892.6	864.4	748.5
22.5°	792.3	795.5	801.7	826.8	876.9	917.6	952.1	986.5	945.8	923.9	795.5
25°	829.9	833.1	836.2	848.7	895.7	952.1	977.1	1008.4	995.9	980.3	839.3
27.5°	870.6	870.6	870.6	883.2	920.7	986.5	1017.8	1027.2	1042.9	1036.6	892.6
30°	970.9	974.0	955.2	927.0	952.1	1017.8	1061.7	1046.0	1086.7	1089.9	936.4
32.5°	1118.1	1111.8	1071.1	1021.0	995.9	1049.2	1111.8	1083.6	1127.4	1143.1	986.5
35°	1312.2	1299.7	1249.6	1155.6	1083.6	1086.7	1165.0	1136.8	1171.3	1205.7	1039.8
37.5°	1503.3	1493.9	1428.1	1324.8	1212.0	1152.5	1224.5	1202.6	1221.4	1274.6	1102.4
40°	1656.7	1647.3	1609.7	1500.1	1356.1	1252.7	1277.8	1274.6	1277.8	1356.1	1165.0
42.5°	1785.1	1775.7	1735.0	1637.9	1509.5	1371.7	1356.1	1356.1	1349.8	1446.9	1237.1
45°	1863.4	1854.0	1835.2	1760.1	1634.8	1500.1	1450.0	1443.8	1428.1	1547.1	1318.5
47.5°	1879.1	1879.1	1891.6	1854.0	1725.6	1619.1	1553.4	1528.3	1518.9	1663.0	1418.7
50°	1800.8	1816.4	1879.1	1907.3	1797.7	1713.1	1656.7	1622.3	1616.0	1785.1	1531.4
52.5°	1443.8	1493.9	1694.3	1841.5	1844.6	1766.3	1753.8	1713.1	1731.9	1926.1	1675.5
55°	1083.6	1114.9	1324.8	1631.7	1822.7	1800.8	1832.1	1822.7	1872.8	2098.3	1819.6
57.5°	883.2	911.4	999.0	1327.9	1669.2	1816.4	1907.3	1913.5	1988.7	2264.3	1963.6
60°	723.4	742.2	795.5	1017.8	1412.4	1760.1	1960.5	1998.1	2107.7	2439.7	2120.2
62.5°	557.5	573.1	626.4	770.4	1127.4	1628.5	2001.2	2085.8	2236.1	2652.6	2305.0
65°	410.3	422.8	469.8	566.9	851.8	1393.7	1979.3	2186.0	2399.0	2934.5	2533.6
67.5°	310.0	316.3	344.5	413.4	595.0	1140.0	1847.8	2286.2	2596.3	3260.2	2743.5
70°	241.1	247.4	259.9	300.7	407.1	826.8	1600.3	2239.2	2781.0	3545.2	2890.6
72.5°	203.6	203.6	209.8	228.6	281.9	551.2	1252.7	2067.0	2928.2	3661.1	2796.7
75°	169.1	172.2	172.2	181.6	206.7	372.7	902.0	1772.6	2918.8	3473.2	2414.6
77.5°	144.1	144.1	144.1	150.3	162.9	266.2	591.9	1356.1	2518.0	2687.1	1644.2
80°	122.1	119.0	119.0	122.1	134.7	197.3	375.8	886.3	1684.9	1688.0	895.7
82.5°	84.6	94.0	97.1	97.1	112.7	144.1	238.0	485.4	892.6	867.5	429.1
85°	53.2	56.4	72.0	75.2	94.0	81.4	144.1	247.4	419.7	422.8	147.2
87.5°	18.8	15.7	40.7	43.8	62.6	34.4	72.0	84.6	175.4	166.0	40.7
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°	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6	466.6
2.5°	469.8	447.8	419.7	397.7	385.2	369.6	360.2	347.6	344.5	344.5	347.6
5°	479.2	441.6	394.6	360.2	344.5	335.1	335.1	335.1	335.1	335.1	335.1
7.5°	491.7	441.6	378.9	347.6	341.4	341.4	344.5	350.8	353.9	357.0	357.0
10°	507.4	444.7	369.6	347.6	347.6	353.9	363.3	372.7	375.8	382.1	378.9
12.5°	532.4	454.1	372.7	357.0	360.2	369.6	378.9	385.2	391.5	394.6	394.6
15°	560.6	466.6	378.9	366.4	369.6	378.9	388.3	397.7	400.9	407.1	404.0
17.5°	591.9	482.3	388.3	372.7	378.9	385.2	388.3	394.6	397.7	397.7	394.6
20°	623.2	498.0	394.6	378.9	378.9	378.9	375.8	369.6	366.4	363.3	363.3
22.5°	657.7	519.9	400.9	378.9	369.6	360.2	347.6	335.1	328.8	328.8	325.7
25°	698.4	541.8	404.0	369.6	353.9	335.1	316.3	300.7	291.3	288.1	285.0
27.5°	736.0	560.6	400.9	360.2	335.1	310.0	281.9	263.1	253.7	253.7	253.7
30°	776.7	576.3	391.5	344.5	310.0	278.7	250.5	234.9	225.5	222.4	222.4
32.5°	808.0	585.6	378.9	325.7	285.0	250.5	228.6	216.1	200.4	194.2	194.2
35°	848.7	591.9	357.0	300.7	259.9	228.6	216.1	197.3	181.6	175.4	175.4
37.5°	889.4	591.9	338.2	278.7	238.0	219.2	209.8	178.5	166.0	159.7	159.7
40°	933.3	585.6	313.2	253.7	216.1	216.1	194.2	166.0	144.1	140.9	140.9
42.5°	980.3	573.1	285.0	228.6	200.4	203.6	184.8	153.5	140.9	137.8	134.7
45°	1030.4	554.3	259.9	200.4	181.6	178.5	162.9	153.5	144.1	147.2	147.2
47.5°	1089.9	529.3	231.8	178.5	169.1	162.9	153.5	140.9	137.8	140.9	144.1
50°	1158.8	491.7	209.8	162.9	159.7	150.3	144.1	137.8	134.7	137.8	134.7
52.5°	1246.5	441.6	187.9	150.3	150.3	134.7	131.5	131.5	131.5	131.5	131.5
55°	1337.3	388.3	169.1	144.1	144.1	128.4	128.4	128.4	128.4	128.4	128.4
57.5°	1421.8	338.2	156.6	140.9	137.8	125.3	125.3	125.3	125.3	128.4	128.4
60°	1503.3	297.5	147.2	137.8	134.7	122.1	122.1	122.1	122.1	125.3	125.3
62.5°	1581.6	272.5	144.1	137.8	131.5	122.1	122.1	122.1	122.1	128.4	125.3
65°	1653.6	253.7	144.1	140.9	128.4	122.1	122.1	122.1	122.1	128.4	125.3
67.5°	1659.9	234.9	140.9	144.1	128.4	122.1	122.1	122.1	119.0	128.4	125.3
70°	1553.4	219.2	134.7	147.2	134.7	122.1	119.0	119.0	115.9	128.4	122.1
72.5°	1290.3	197.3	122.1	140.9	134.7	122.1	115.9	112.7	109.6	122.1	115.9
75°	902.0	166.0	103.3	128.4	131.5	122.1	109.6	106.5	103.3	109.6	103.3
77.5°	544.9	134.7	84.6	109.6	119.0	122.1	103.3	100.2	94.0	97.1	94.0
80°	325.7	100.2	65.8	90.8	103.3	122.1	97.1	90.8	81.4	81.4	78.3
82.5°	200.4	68.9	47.0	68.9	84.6	112.7	94.0	78.3	68.9	68.9	62.6
85°	94.0	43.8	31.3	50.1	62.6	94.0	84.6	65.8	56.4	75.2	59.5
87.5°	25.1	21.9	18.8	28.2	40.7	47.0	75.2	43.8	47.0	43.8	37.6
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)