

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: P459561

Luminaire Tested: **ARCH-L-PA3-90-AMB-U-T2U**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-10)
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-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II
U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4065 lumens
Efficiency: N/A
Efficacy: 45.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - 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

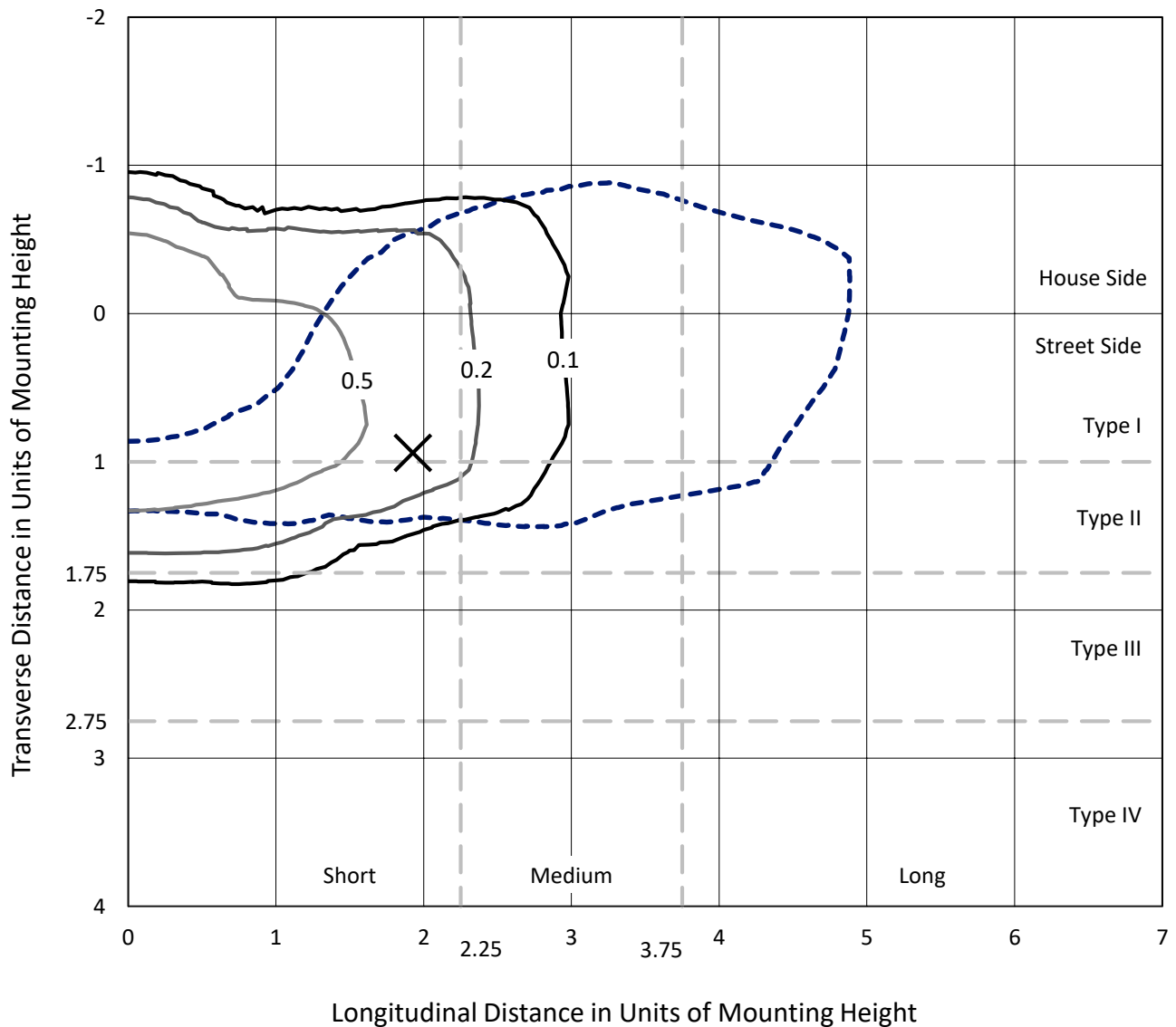


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Iso-Footcandle Lines of Horizontal Illumination

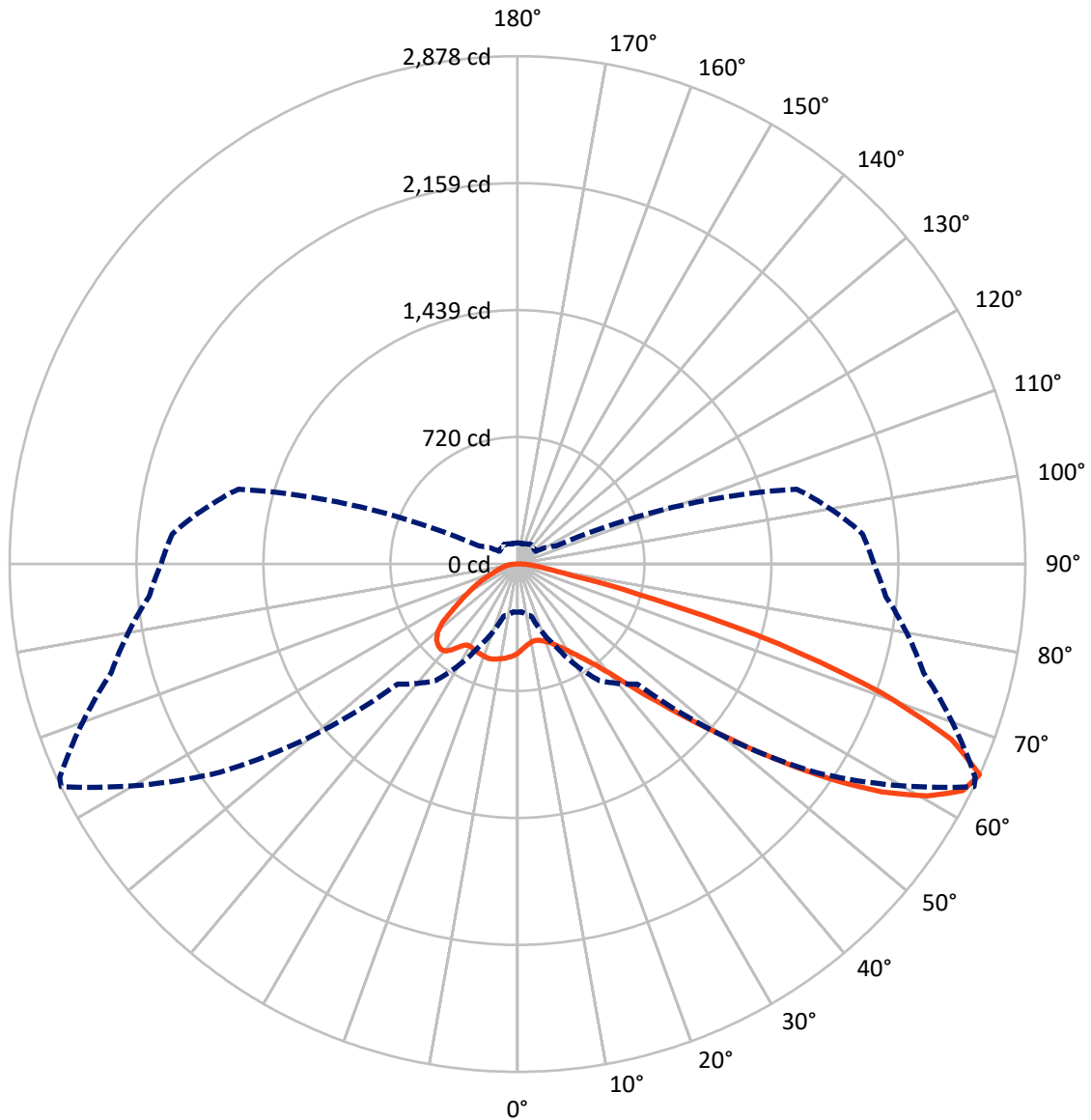
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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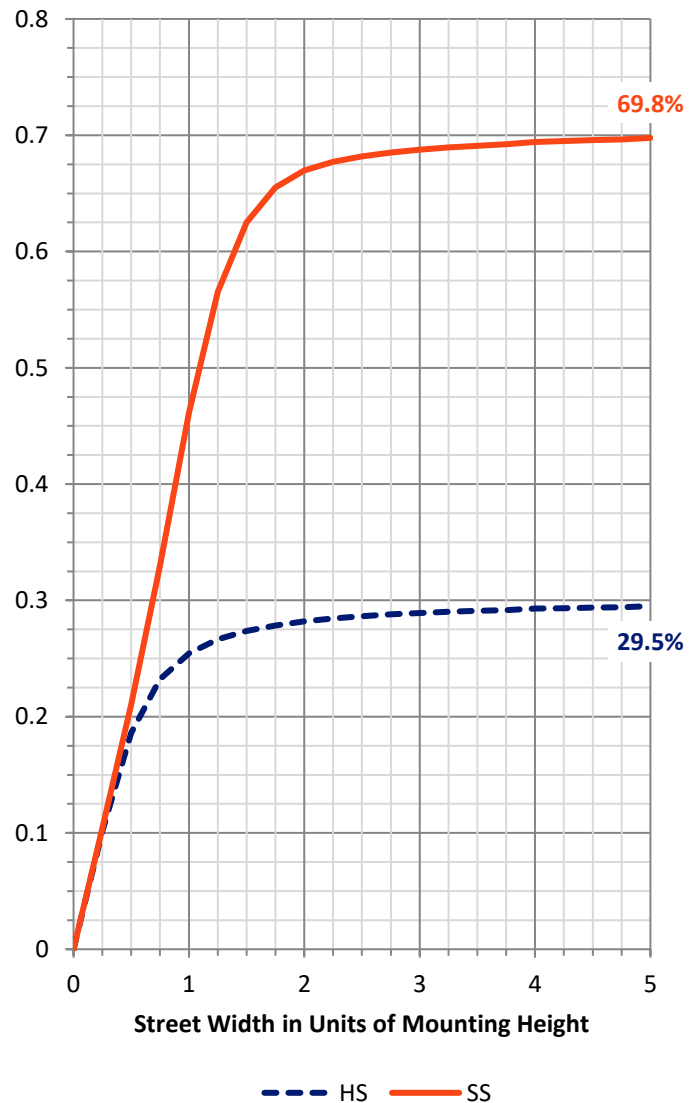
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.5	0.0	1216.5
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	2848.5	0.0	2848.5
	% Fixture	70.1	0.0	70.1
Total	Lumens	4065.0	0.0	4065.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.2
10°-20°	141.3	3.5
20°-30°	240.2	5.9
30°-40°	383.2	9.4
40°-50°	695.5	17.1
50°-60°	999.0	24.6
60°-70°	916.0	22.5
70°-80°	535.7	13.2
80°-90°	106.2	2.6
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°	4065.0	100.0
0°-180°	4065.0	100.0



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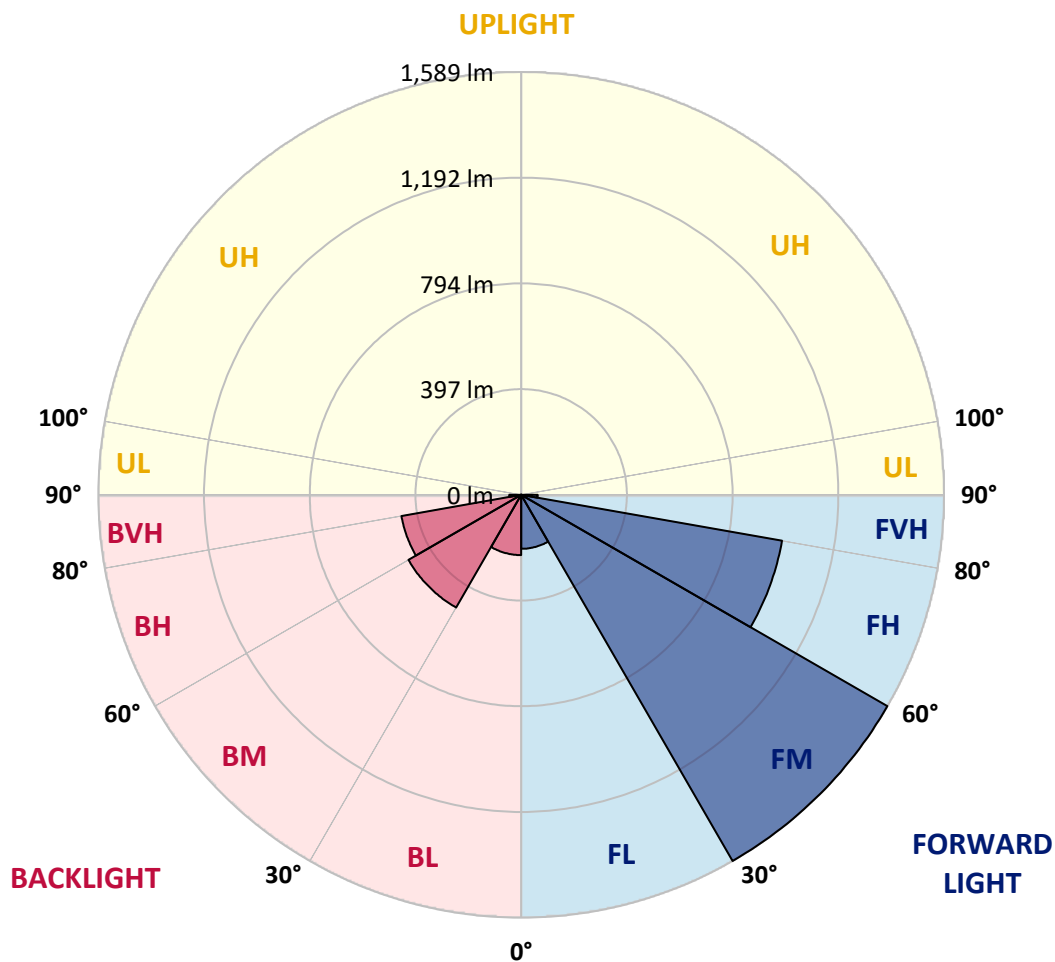
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.9	5.0			
FM	(30°-60°)	1588.7	39.1			
FH	(60°-80°)	995.1	24.5			G1/1800
FVH	(80°-90°)	61.9	1.5			G1/100
BL	(0°-30°)	226.4	5.6	B1/500		
BM	(30°-60°)	489.1	12.0	B1/1000		
BH	(60°-80°)	456.6	11.2	B1/500		G1/500
BVH	(80°-90°)	44.3	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	469.8	469.8	472.9	472.9	476.1	479.2	482.3	485.4	485.4	491.7	498.0
5°	444.7	444.7	447.9	447.9	451.0	454.1	460.4	469.8	469.8	479.2	491.7
7.5°	429.1	429.1	429.1	432.2	435.3	438.5	447.9	457.3	457.3	469.8	485.4
10°	419.7	419.7	419.7	419.7	422.8	429.1	438.5	447.9	447.9	463.5	479.2
12.5°	413.4	413.4	413.4	413.4	416.5	422.8	435.3	444.7	444.7	460.4	479.2
15°	416.5	416.5	416.5	416.5	419.7	425.9	435.3	447.9	447.9	463.5	482.3
17.5°	419.7	422.8	419.7	425.9	429.1	435.3	444.7	457.3	457.3	472.9	488.6
20°	425.9	429.1	429.1	438.5	441.6	447.9	457.3	469.8	469.8	485.4	494.8
22.5°	441.6	444.7	447.9	460.4	460.4	466.7	476.1	485.4	488.6	501.1	504.2
25°	476.1	479.2	485.4	494.8	488.6	494.8	501.1	510.5	510.5	519.9	516.8
27.5°	541.8	541.8	551.2	548.1	532.4	532.4	535.6	538.7	538.7	541.8	535.6
30°	632.6	632.6	635.8	623.3	595.1	579.4	573.1	573.1	573.1	573.1	557.5
32.5°	742.3	745.4	751.7	726.6	676.5	645.2	620.1	613.9	610.7	610.7	591.9
35°	898.9	898.9	892.6	867.5	795.5	729.7	679.6	667.1	660.8	660.8	635.8
37.5°	1108.7	1105.6	1083.6	1036.7	945.8	848.8	761.1	729.7	726.6	723.5	698.4
40°	1356.1	1343.6	1318.5	1252.8	1124.4	1005.3	889.5	823.7	820.6	808.0	773.6
42.5°	1581.6	1581.6	1540.9	1493.9	1356.1	1252.8	1042.9	949.0	939.6	914.5	873.8
45°	1760.1	1744.5	1716.3	1697.5	1616.1	1537.8	1243.4	1111.8	1096.2	1049.2	989.7
47.5°	1825.9	1791.5	1794.6	1825.9	1854.1	1807.1	1484.5	1315.4	1290.4	1208.9	1136.9
50°	1728.8	1710.0	1732.0	1851.0	2010.7	2085.9	1800.9	1550.3	1522.1	1418.8	1309.1
52.5°	1484.5	1490.8	1556.6	1738.2	2042.0	2283.2	2114.1	1841.6	1797.7	1638.0	1503.3
55°	1224.6	1237.1	1340.5	1528.4	1929.3	2352.1	2386.5	2148.5	2095.3	1851.0	1675.6
57.5°	945.8	967.8	1102.4	1302.9	1706.9	2220.5	2580.7	2436.6	2383.4	2045.1	1838.4
60°	626.4	645.2	811.2	1080.5	1403.1	1885.4	2624.6	2668.4	2618.3	2208.0	1979.4
62.5°	419.7	425.9	498.0	820.6	1096.2	1418.8	2489.9	2831.3	2796.8	2330.2	2067.1
65°	272.5	272.5	306.9	516.8	804.9	961.5	2057.7	2878.2	2862.6	2383.4	2095.3
67.5°	191.0	191.0	206.7	300.7	573.1	585.7	1378.0	2652.7	2699.7	2352.1	2048.3
70°	169.1	172.3	184.8	206.7	422.8	366.4	732.9	2192.3	2295.7	2229.9	1935.5
72.5°	147.2	150.3	172.3	191.0	303.8	256.8	347.6	1550.3	1688.1	2104.7	1822.8
75°	122.1	125.3	140.9	178.5	219.2	203.6	222.4	798.6	955.2	1860.4	1725.7
77.5°	97.1	100.2	112.7	140.9	181.7	153.5	181.7	325.7	432.2	1368.7	1525.2
80°	65.8	68.9	81.4	103.4	134.7	122.1	140.9	172.3	197.3	798.6	1155.7
82.5°	47.0	47.0	59.5	72.0	94.0	103.4	94.0	122.1	125.3	372.7	685.9
85°	34.5	34.5	40.7	47.0	56.4	65.8	62.6	81.4	84.6	150.3	206.7
87.5°	15.7	15.7	25.1	21.9	28.2	31.3	40.7	40.7	40.7	65.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	501.1	504.2	510.5	516.8	523.0	526.2	529.3	532.4	532.4	535.6	535.6
5°	498.0	504.2	516.8	526.2	538.7	545.0	551.2	557.5	560.6	563.7	563.7
7.5°	494.8	504.2	519.9	535.6	551.2	560.6	570.0	576.3	582.5	582.5	585.7
10°	491.7	501.1	523.0	541.8	560.6	576.3	582.5	588.8	591.9	595.1	595.1
12.5°	488.6	501.1	526.2	548.1	570.0	585.7	591.9	595.1	591.9	591.9	591.9
15°	491.7	504.2	529.3	554.4	576.3	588.8	591.9	579.4	563.7	554.4	554.4
17.5°	494.8	507.4	532.4	557.5	579.4	585.7	566.9	548.1	535.6	532.4	532.4
20°	498.0	507.4	532.4	554.4	573.1	566.9	545.0	538.7	535.6	538.7	535.6
22.5°	504.2	513.6	532.4	551.2	563.7	551.2	545.0	545.0	532.4	529.3	526.2
25°	516.8	519.9	532.4	548.1	551.2	551.2	538.7	523.0	510.5	510.5	510.5
27.5°	529.3	529.3	532.4	541.8	551.2	545.0	504.2	488.6	482.3	479.2	479.2
30°	545.0	541.8	532.4	535.6	560.6	507.4	454.1	438.5	435.3	432.2	432.2
32.5°	573.1	560.6	535.6	538.7	548.1	447.9	388.4	372.7	372.7	372.7	372.7
35°	613.9	595.1	554.4	570.0	513.6	379.0	316.3	306.9	313.2	316.3	316.3
37.5°	670.2	642.0	582.5	620.1	472.9	306.9	253.7	253.7	256.8	263.1	263.1
40°	742.3	704.7	626.4	664.0	422.8	238.0	209.8	209.8	209.8	209.8	209.8
42.5°	833.1	786.1	685.9	682.8	353.9	197.3	184.8	178.5	175.4	169.1	169.1
45°	942.7	880.1	776.7	682.8	281.9	178.5	169.1	162.9	156.6	147.2	147.2
47.5°	1071.1	992.8	880.1	670.2	228.6	175.4	166.0	153.5	147.2	144.1	140.9
50°	1227.7	1127.5	989.7	638.9	194.2	172.3	156.6	147.2	144.1	140.9	137.8
52.5°	1400.0	1287.2	1099.3	579.4	181.7	169.1	150.3	144.1	137.8	137.8	137.8
55°	1572.2	1450.1	1193.3	485.4	166.0	159.7	147.2	140.9	134.7	134.7	134.7
57.5°	1725.7	1597.3	1290.4	410.3	153.5	150.3	144.1	137.8	131.5	131.5	131.5
60°	1860.4	1735.1	1393.7	350.8	144.1	144.1	140.9	134.7	128.4	128.4	128.4
62.5°	1963.7	1851.0	1515.9	297.5	134.7	134.7	137.8	131.5	122.1	122.1	122.1
65°	2020.1	1963.7	1638.0	244.3	125.3	128.4	134.7	125.3	119.0	119.0	119.0
67.5°	1995.0	2013.8	1706.9	197.3	112.7	119.0	128.4	119.0	112.7	112.7	112.7
70°	1894.8	1982.5	1685.0	156.6	103.4	112.7	119.0	112.7	103.4	106.5	103.4
72.5°	1791.5	1954.3	1559.7	125.3	97.1	103.4	109.6	103.4	97.1	97.1	94.0
75°	1710.0	1879.2	1262.2	106.5	84.6	94.0	100.2	94.0	87.7	87.7	84.6
77.5°	1553.4	1612.9	792.4	87.7	75.2	81.4	87.7	81.4	78.3	75.2	72.0
80°	1190.1	1111.8	338.2	75.2	65.8	72.0	75.2	72.0	68.9	62.6	59.5
82.5°	667.1	532.4	119.0	59.5	56.4	62.6	62.6	62.6	59.5	56.4	50.1
85°	191.0	147.2	65.8	43.8	43.8	43.8	50.1	53.2	50.1	43.8	37.6
87.5°	28.2	40.7	40.7	28.2	28.2	28.2	34.5	34.5	37.6	28.2	28.2
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)