

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: P459560

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-11)
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-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II
U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2865 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full 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

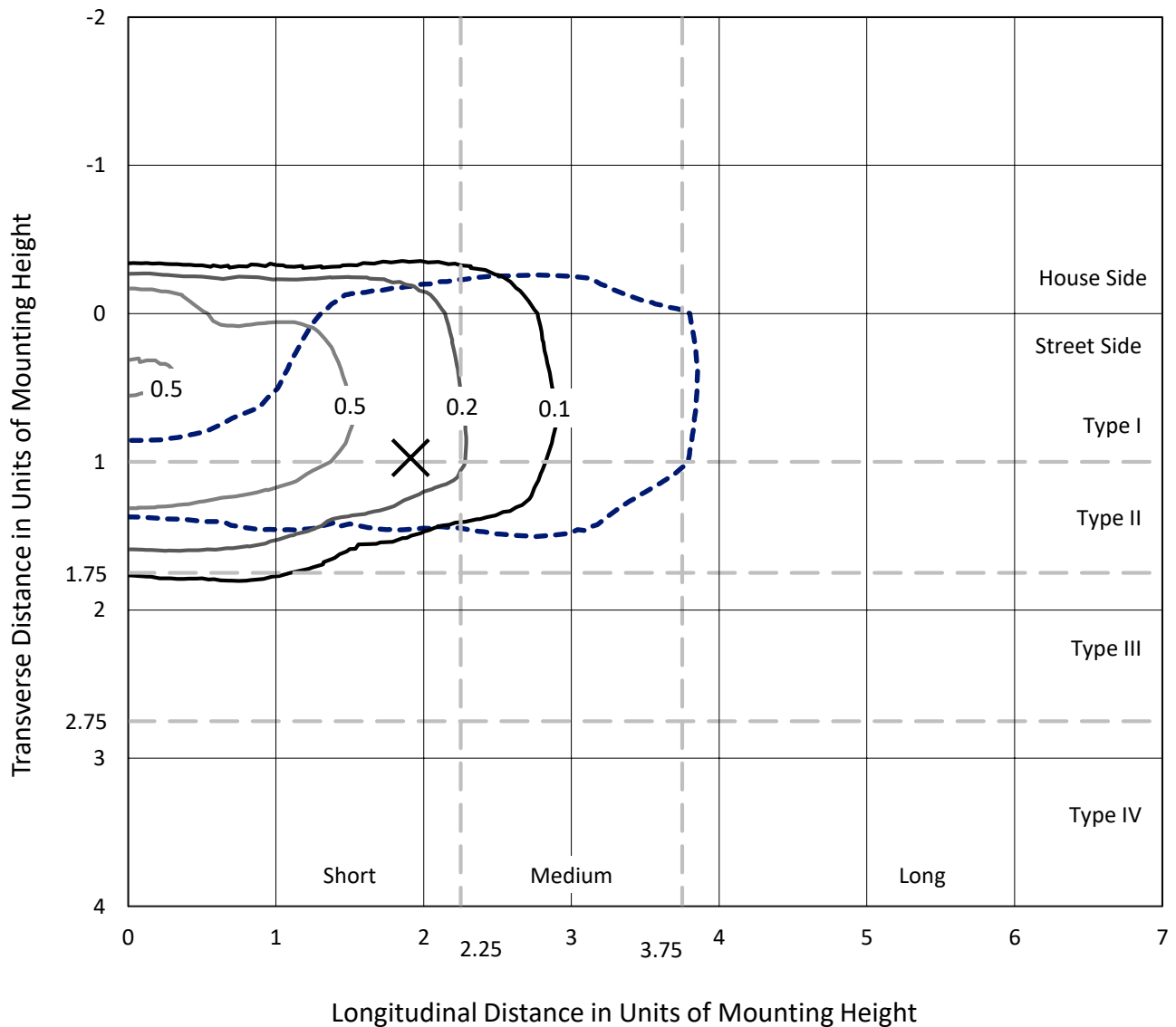


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Iso-Footcandle Lines of Horizontal Illumination

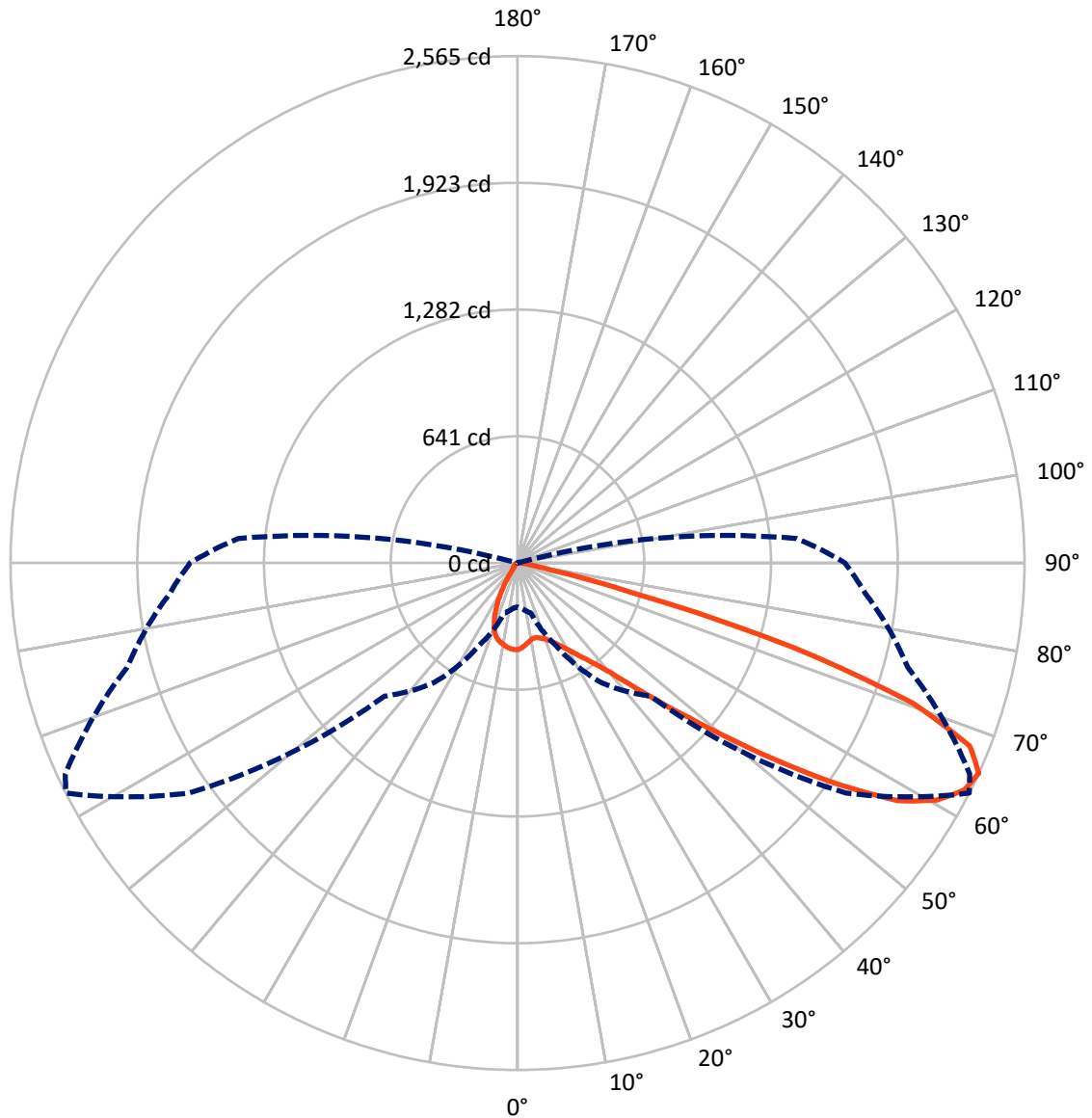
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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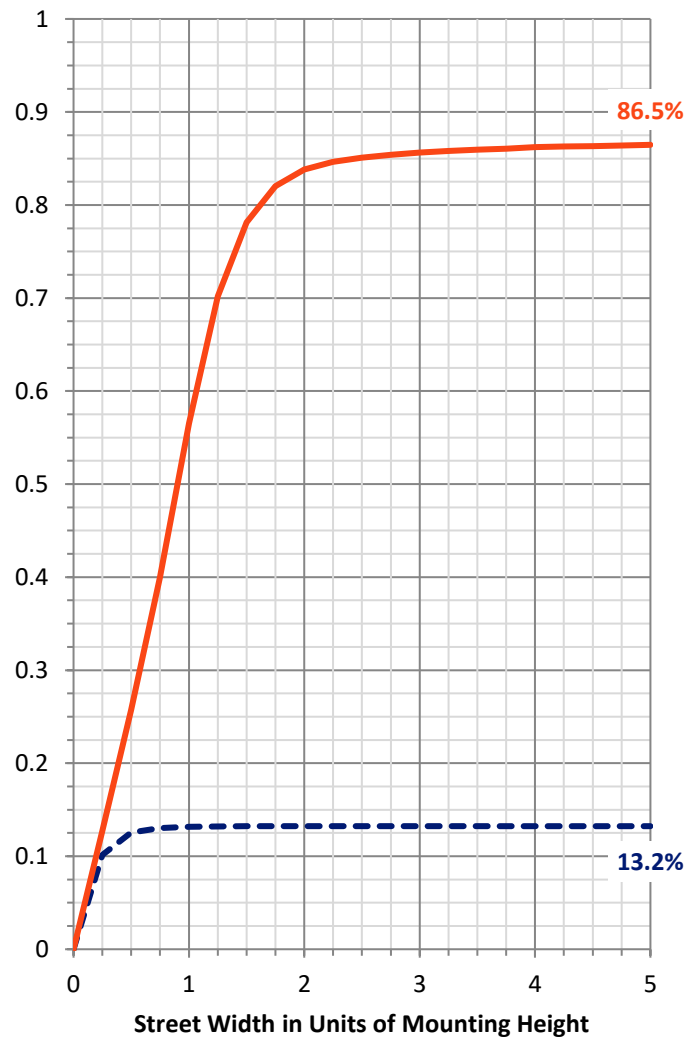
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.5	0.0	383.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2481.5	0.0	2481.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	2865.0	0.0	2865.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	1.4
10°-20°	94.5	3.3
20°-30°	137.1	4.8
30°-40°	245.8	8.6
40°-50°	533.4	18.6
50°-60°	809.3	28.2
60°-70°	686.4	24.0
70°-80°	302.2	10.5
80°-90°	17.0	0.6
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°	2865.0	100.0
0°-180°	2865.0	100.0



--- HS — SS

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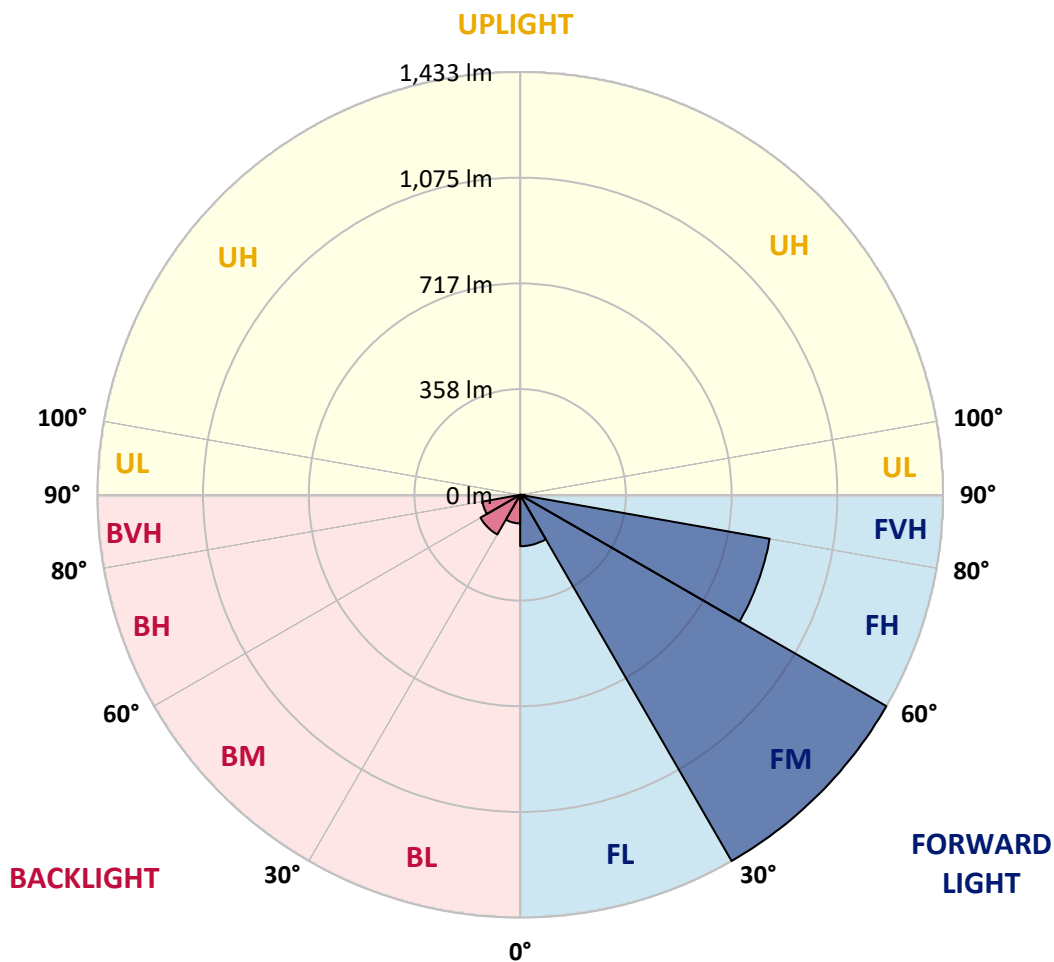
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.0	6.1			
FM	(30°-60°)	1433.1	50.0			
FH	(60°-80°)	858.5	30.0			G1/1800
FVH	(80°-90°)	15.8	0.6			G1/100
BL	(0°-30°)	96.9	3.4	B0/110		
BM	(30°-60°)	155.3	5.4	B0/220		
BH	(60°-80°)	130.1	4.5	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
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°	63°	65°	75°	85°
0°	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4
2.5°	419.6	419.6	419.6	422.7	422.7	425.9	425.9	429.0	429.0	432.1	435.3
5°	394.5	394.5	397.7	397.7	400.8	403.9	410.2	416.5	416.5	422.7	429.0
7.5°	378.9	378.9	378.9	382.0	385.2	388.3	394.5	403.9	403.9	413.3	425.9
10°	366.4	366.4	366.4	369.5	372.6	375.8	385.2	391.4	394.5	407.1	416.5
12.5°	360.1	360.1	360.1	360.1	363.2	372.6	378.9	388.3	391.4	403.9	416.5
15°	360.1	360.1	360.1	360.1	366.4	372.6	382.0	391.4	394.5	407.1	416.5
17.5°	360.1	360.1	360.1	366.4	369.5	378.9	388.3	400.8	400.8	413.3	419.6
20°	360.1	363.2	366.4	375.8	378.9	388.3	400.8	410.2	413.3	425.9	425.9
22.5°	366.4	369.5	375.8	388.3	391.4	403.9	416.5	429.0	429.0	438.4	435.3
25°	385.2	385.2	394.5	413.3	413.3	425.9	441.5	450.9	450.9	457.2	447.8
27.5°	419.6	419.6	432.1	441.5	441.5	457.2	469.7	479.1	479.1	482.2	463.4
30°	472.8	472.8	479.1	482.2	479.1	491.6	504.1	510.4	513.5	510.4	488.5
32.5°	579.3	576.2	569.9	544.9	532.3	532.3	541.7	551.1	551.1	548.0	519.8
35°	754.7	745.3	720.2	670.1	610.6	591.8	588.7	598.1	598.1	601.2	563.6
37.5°	983.2	970.7	923.7	842.3	735.9	663.8	651.3	654.5	660.7	663.8	626.3
40°	1224.4	1215.0	1152.3	1064.7	914.4	779.7	735.9	732.7	739.0	745.3	701.4
42.5°	1437.3	1434.2	1365.3	1299.5	1139.8	1011.4	848.6	845.5	848.6	851.7	792.2
45°	1622.0	1603.2	1556.3	1503.0	1393.4	1271.3	1011.4	992.6	992.6	980.1	908.1
47.5°	1716.0	1681.5	1662.7	1665.9	1634.6	1540.6	1249.4	1171.1	1174.3	1142.9	1045.9
50°	1644.0	1628.3	1650.2	1737.9	1828.7	1825.6	1553.1	1399.7	1393.4	1340.2	1205.6
52.5°	1412.2	1424.8	1499.9	1659.6	1916.4	2072.9	1878.8	1678.4	1650.2	1550.0	1380.9
55°	1149.2	1168.0	1277.6	1465.5	1847.5	2223.3	2188.8	1982.1	1935.2	1744.2	1528.1
57.5°	861.1	892.4	1042.7	1233.7	1647.1	2163.8	2404.9	2270.2	2204.5	1897.6	1628.3
60°	557.4	582.4	754.7	1014.6	1330.8	1847.5	2451.8	2436.2	2364.2	1982.1	1697.2
62.5°	369.5	378.9	457.2	773.4	1027.1	1402.8	2326.6	2533.3	2451.8	2019.7	1741.0
65°	222.3	228.6	263.0	460.3	739.0	951.9	2029.1	2564.6	2523.9	2044.8	1766.1
67.5°	140.9	140.9	153.4	244.2	510.4	566.8	1440.4	2467.5	2511.3	2054.2	1737.9
70°	119.0	122.1	131.5	150.3	353.8	316.3	782.8	2119.9	2292.1	2032.2	1694.1
72.5°	93.9	100.2	115.9	137.8	238.0	203.5	331.9	1449.8	1747.3	1938.3	1628.3
75°	59.5	65.8	87.7	122.1	159.7	147.2	169.1	591.8	864.3	1481.1	1384.1
77.5°	37.6	37.6	50.1	87.7	125.3	100.2	125.3	178.5	241.1	685.8	782.8
80°	21.9	25.1	28.2	53.2	84.5	78.3	84.5	93.9	93.9	175.4	194.1
82.5°	15.7	12.5	18.8	28.2	50.1	53.2	47.0	56.4	59.5	59.5	28.2
85°	6.3	6.3	9.4	15.7	28.2	25.1	25.1	31.3	34.4	37.6	12.5
87.5°	3.1	3.1	6.3	9.4	9.4	12.5	12.5	12.5	15.7	21.9	6.3
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°	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4
2.5°	435.3	438.4	435.3	438.4	438.4	438.4	438.4	438.4	441.5	438.4	441.5
5°	432.1	435.3	435.3	435.3	435.3	432.1	432.1	432.1	429.0	429.0	429.0
7.5°	429.0	432.1	429.0	429.0	425.9	422.7	416.5	413.3	410.2	410.2	410.2
10°	422.7	425.9	425.9	419.6	416.5	407.1	391.4	375.8	360.1	357.0	353.8
12.5°	419.6	422.7	419.6	413.3	400.8	378.9	344.4	300.6	269.3	250.5	244.2
15°	419.6	419.6	416.5	403.9	378.9	325.7	250.5	175.4	125.3	100.2	97.1
17.5°	422.7	419.6	410.2	391.4	338.2	241.1	134.6	72.0	56.4	53.2	53.2
20°	425.9	419.6	403.9	372.6	275.6	137.8	59.5	47.0	43.8	40.7	40.7
22.5°	429.0	419.6	397.7	341.3	200.4	65.8	47.0	37.6	34.4	31.3	31.3
25°	438.4	425.9	391.4	303.7	119.0	47.0	37.6	31.3	28.2	25.1	25.1
27.5°	450.9	432.1	391.4	253.6	62.6	40.7	31.3	25.1	21.9	18.8	18.8
30°	466.6	444.7	391.4	194.1	43.8	31.3	25.1	18.8	15.7	15.7	15.7
32.5°	491.6	466.6	388.3	131.5	34.4	25.1	18.8	15.7	12.5	12.5	12.5
35°	532.3	497.9	385.2	72.0	28.2	21.9	15.7	12.5	9.4	9.4	9.4
37.5°	588.7	544.9	375.8	40.7	21.9	15.7	12.5	9.4	9.4	9.4	9.4
40°	657.6	604.3	357.0	31.3	18.8	12.5	9.4	9.4	9.4	6.3	6.3
42.5°	745.3	679.5	325.7	28.2	15.7	12.5	9.4	6.3	6.3	6.3	6.3
45°	848.6	779.7	278.7	25.1	12.5	9.4	9.4	6.3	6.3	6.3	6.3
47.5°	973.8	883.0	212.9	21.9	12.5	9.4	6.3	6.3	6.3	6.3	6.3
50°	1114.8	1002.0	137.8	18.8	9.4	6.3	6.3	6.3	3.1	3.1	3.1
52.5°	1271.3	1136.7	84.5	15.7	9.4	6.3	6.3	3.1	3.1	3.1	3.1
55°	1396.6	1243.1	56.4	12.5	6.3	6.3	3.1	3.1	3.1	3.1	3.1
57.5°	1487.4	1315.2	37.6	12.5	6.3	3.1	3.1	3.1	3.1	0.0	0.0
60°	1559.4	1362.1	28.2	9.4	6.3	3.1	3.1	0.0	0.0	0.0	0.0
62.5°	1622.0	1402.8	21.9	6.3	6.3	3.1	3.1	0.0	0.0	0.0	0.0
65°	1656.5	1418.5	18.8	6.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
67.5°	1644.0	1390.3	15.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1597.0	1318.3	12.5	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1550.0	1211.8	9.4	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1324.6	685.8	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	723.3	288.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	169.1	90.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.8	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.0	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)