

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: P459564

Luminaire Tested: **ARCH-L-PA3-90-AMB-U-T4W-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-9)
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-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2900 lumens
Efficiency: N/A
Efficacy: 32.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-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

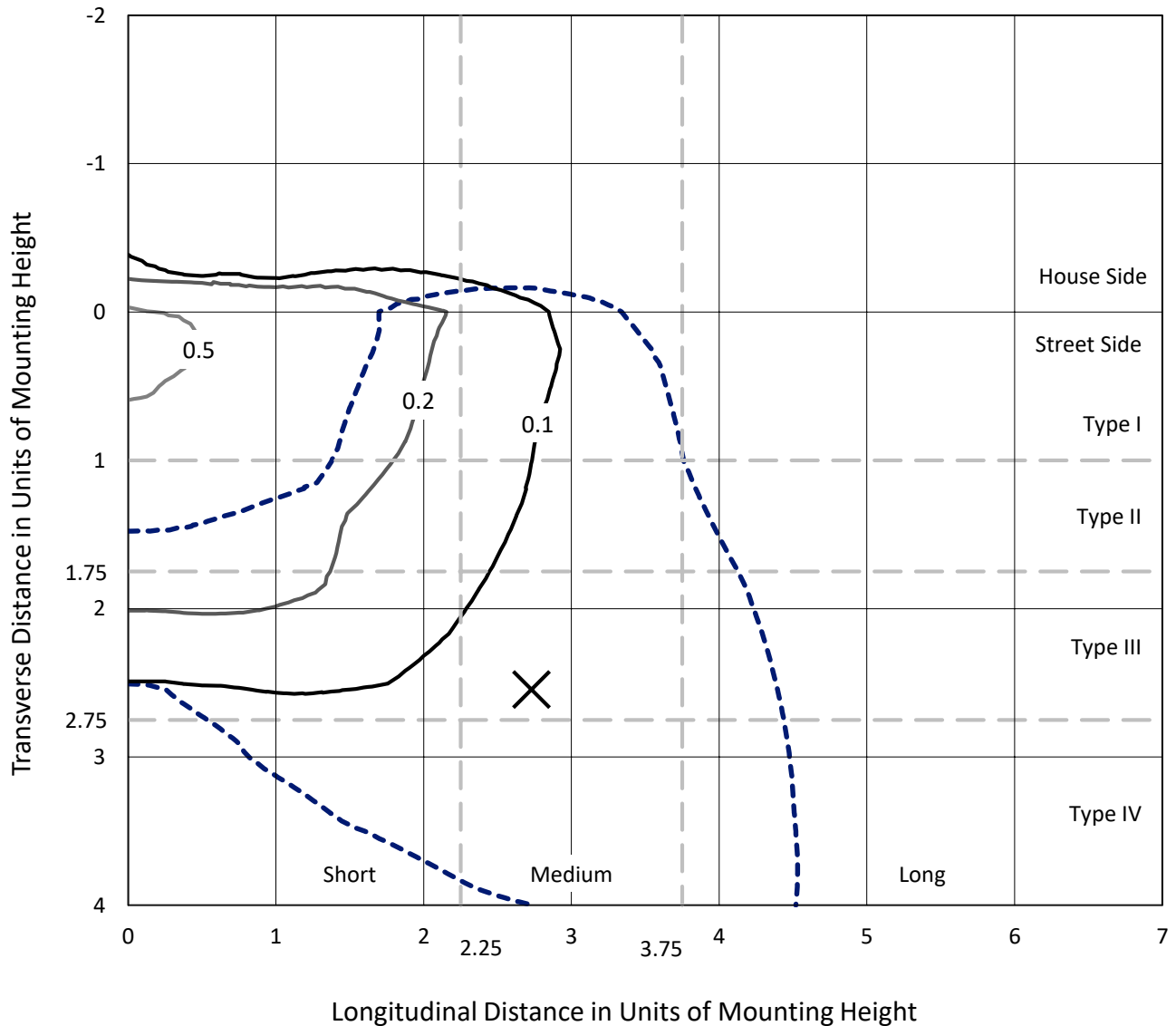


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

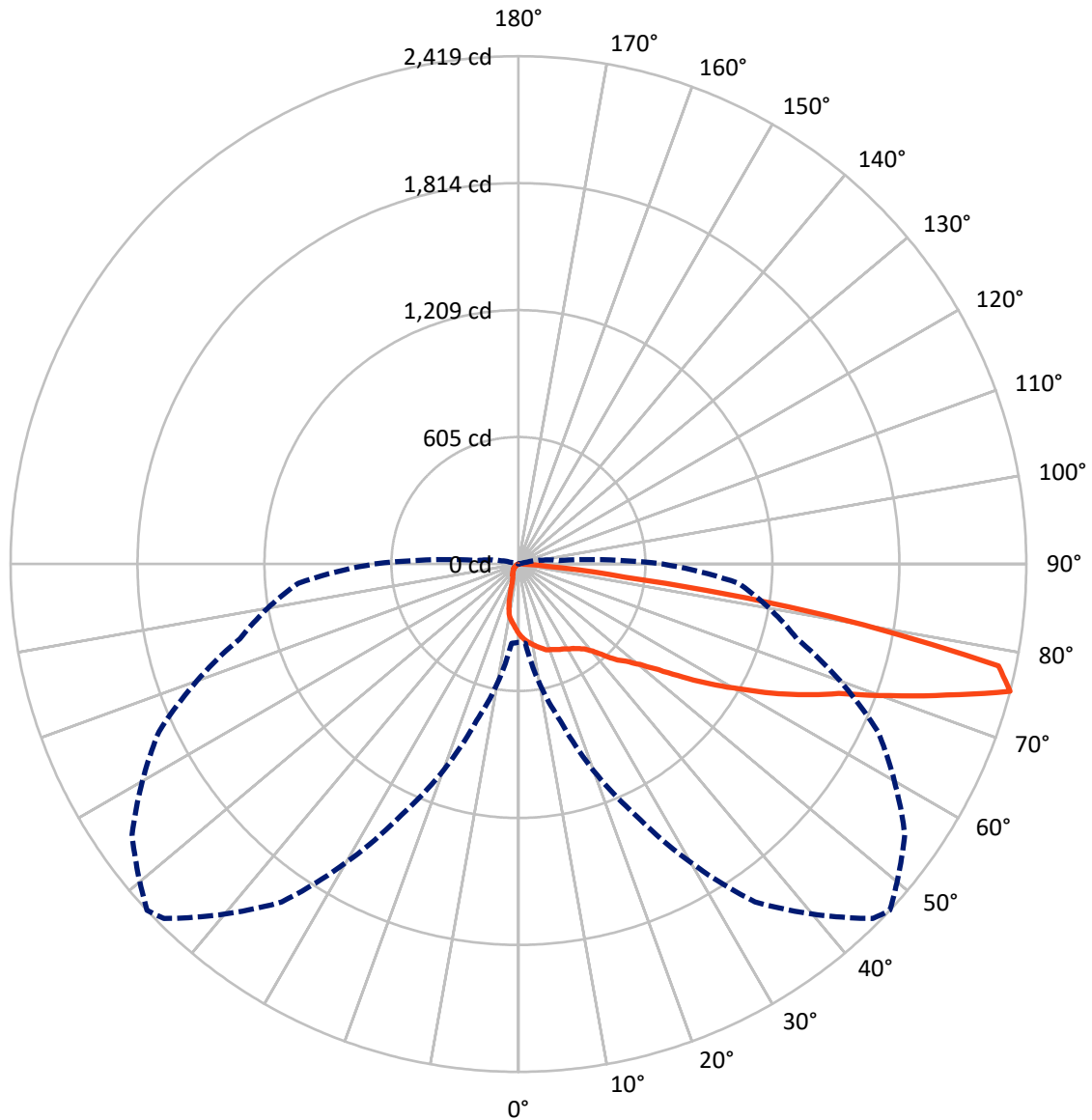


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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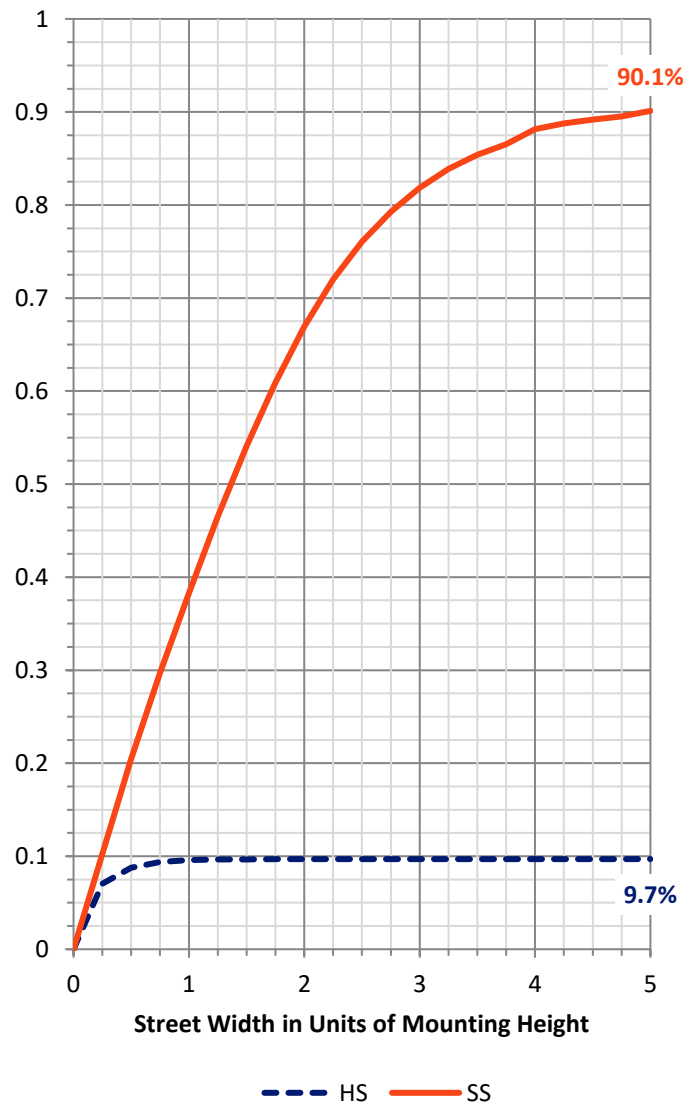
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	283.5	0.0	283.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	2616.5	0.0	2616.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	2900.0	0.0	2900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.1
10°-20°	84.7	2.9
20°-30°	134.4	4.6
30°-40°	192.2	6.6
40°-50°	297.1	10.2
50°-60°	519.9	17.9
60°-70°	841.1	29.0
70°-80°	728.5	25.1
80°-90°	70.9	2.4
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°	2900.0	100.0
0°-180°	2900.0	100.0

Coefficient of Utilization



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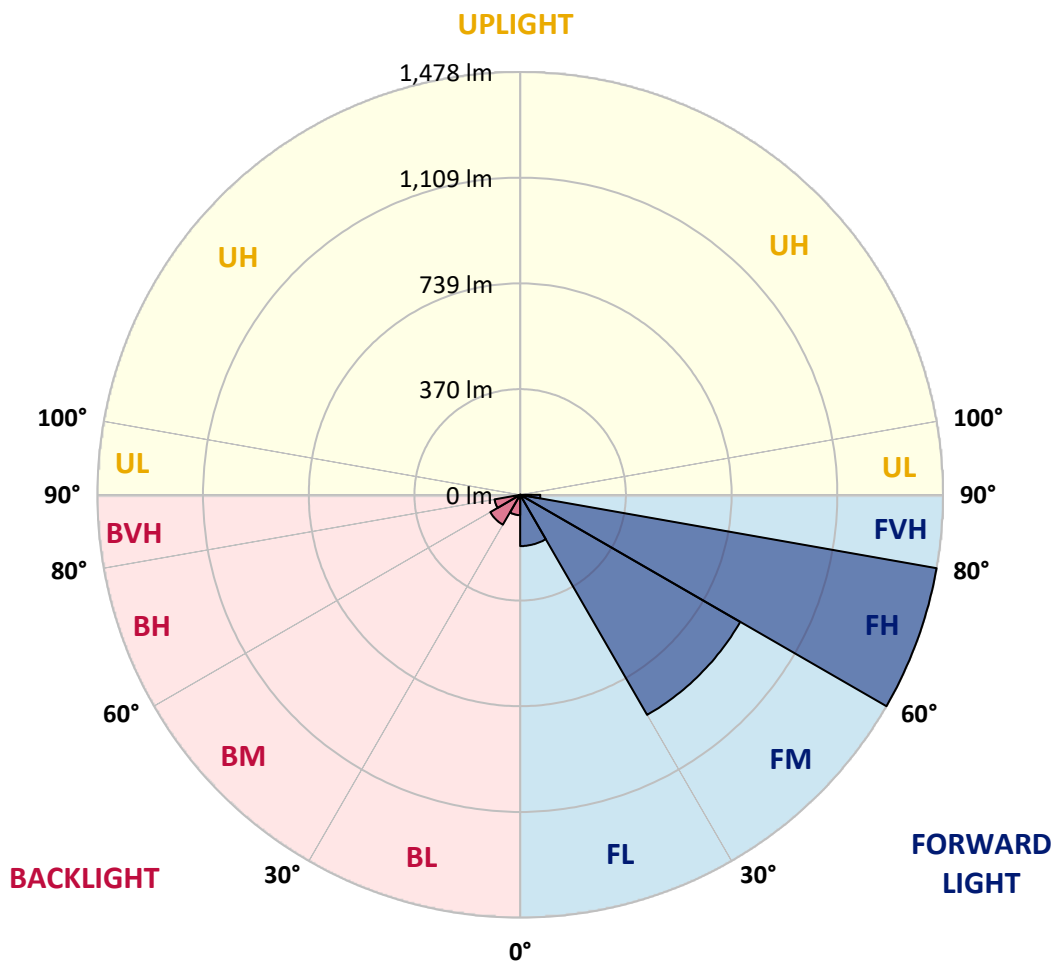
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.2	6.2			
FM (30°-60°)	888.4	30.6			
FH (60°-80°)	1478.3	51.0			G1/1800
FVH (80°-90°)	70.5	2.4			G1/100
BL (0°-30°)	71.1	2.5	B0/110		
BM (30°-60°)	120.8	4.2	B0/220		
BH (60°-80°)	91.2	3.1	B0/110		G0/110
BVH (80°-90°)	0.4	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1
2.5°	360.3	363.4	360.3	357.2	354.0	347.8	350.9	344.6	341.5	335.2	329.0
5°	391.6	391.6	388.5	382.2	375.9	366.5	366.5	360.3	347.8	338.4	329.0
7.5°	413.5	413.5	410.4	404.1	391.6	382.2	379.1	369.7	357.2	344.6	329.0
10°	432.3	429.2	426.1	416.7	404.1	391.6	391.6	379.1	366.5	354.0	335.2
12.5°	448.0	448.0	441.7	429.2	416.7	407.3	404.1	394.7	382.2	363.4	344.6
15°	460.5	460.5	454.3	438.6	426.1	419.8	416.7	407.3	394.7	375.9	354.0
17.5°	460.5	463.7	460.5	444.9	435.5	426.1	429.2	419.8	407.3	388.5	363.4
20°	463.7	463.7	460.5	444.9	438.6	435.5	435.5	426.1	416.7	401.0	375.9
22.5°	466.8	469.9	466.8	444.9	441.7	441.7	441.7	438.6	426.1	407.3	385.3
25°	469.9	469.9	469.9	448.0	444.9	448.0	451.1	448.0	438.6	419.8	397.9
27.5°	476.2	473.1	473.1	451.1	451.1	454.3	457.4	457.4	451.1	432.3	407.3
30°	482.5	482.5	482.5	457.4	457.4	463.7	469.9	473.1	466.8	444.9	419.8
32.5°	501.3	498.1	495.0	466.8	466.8	476.2	479.3	485.6	482.5	460.5	435.5
35°	529.5	523.2	513.8	485.6	482.5	491.9	495.0	501.3	504.4	479.3	454.3
37.5°	560.8	554.5	542.0	510.7	504.4	510.7	513.8	520.1	526.3	507.5	479.3
40°	595.3	592.1	595.3	554.5	532.6	542.0	545.1	548.3	557.7	538.9	507.5
42.5°	667.3	670.4	676.7	598.4	563.9	589.0	592.1	582.7	589.0	576.5	545.1
45°	764.4	758.2	767.6	661.0	607.8	639.1	648.5	626.6	632.8	617.2	585.9
47.5°	899.1	889.7	861.5	751.9	670.4	686.1	692.4	686.1	686.1	676.7	642.2
50°	1008.8	1002.5	958.7	864.7	770.7	751.9	751.9	755.0	761.3	755.0	723.7
52.5°	1112.2	1105.9	1062.1	983.7	905.4	839.6	836.5	845.9	855.3	874.1	842.8
55°	1162.3	1162.3	1140.4	1105.9	1033.9	958.7	949.3	955.5	983.7	1008.8	971.2
57.5°	1256.3	1253.2	1250.0	1246.9	1196.8	1099.6	1077.7	1077.7	1134.1	1146.6	1084.0
60°	1375.3	1381.6	1412.9	1419.2	1362.8	1243.8	1206.2	1225.0	1297.0	1275.1	1218.7
62.5°	1450.5	1466.2	1560.2	1644.8	1582.1	1384.7	1353.4	1378.5	1428.6	1400.4	1397.3
65°	1381.6	1372.2	1600.9	1776.4	1845.3	1538.3	1500.7	1513.2	1557.1	1538.3	1585.2
67.5°	1243.8	1246.9	1459.9	1813.9	2030.1	1688.6	1644.8	1651.0	1698.0	1679.2	1785.8
70°	1096.5	1112.2	1293.9	1738.8	2083.4	1914.2	1876.6	1839.0	1845.3	1763.8	1926.7
72.5°	902.3	914.8	1165.4	1588.4	2083.4	2149.2	2133.5	2064.6	1942.4	1732.5	1788.9
75°	372.8	379.1	773.8	1319.0	1964.3	2387.3	2418.6	2246.3	1889.1	1372.2	1052.7
77.5°	172.3	175.4	250.6	770.7	1497.5	2283.9	2337.1	1995.7	1319.0	642.2	307.0
80°	78.3	81.5	109.7	235.0	730.0	1456.8	1500.7	1077.7	538.9	150.4	47.0
82.5°	15.7	18.8	34.5	94.0	266.3	479.3	510.7	363.4	169.2	53.3	18.8
85°	6.3	6.3	15.7	53.3	122.2	119.1	137.8	128.4	106.5	47.0	9.4
87.5°	3.1	3.1	6.3	21.9	59.5	31.3	31.3	53.3	72.1	43.9	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°	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1
2.5°	329.0	325.8	319.6	316.4	313.3	310.2	310.2	307.0	307.0	307.0	307.0
5°	322.7	319.6	307.0	300.8	294.5	288.2	288.2	285.1	285.1	285.1	285.1
7.5°	322.7	316.4	300.8	288.2	278.8	269.4	266.3	260.0	256.9	253.8	256.9
10°	325.8	316.4	297.6	282.0	269.4	250.6	225.6	203.6	191.1	188.0	188.0
12.5°	332.1	319.6	297.6	275.7	250.6	209.9	166.0	134.7	115.9	109.7	112.8
15°	341.5	325.8	300.8	272.6	219.3	153.5	103.4	81.5	81.5	84.6	87.7
17.5°	347.8	332.1	300.8	256.9	175.4	97.1	75.2	72.1	72.1	81.5	81.5
20°	360.3	341.5	307.0	231.8	122.2	75.2	68.9	68.9	68.9	78.3	78.3
22.5°	369.7	354.0	313.3	197.4	81.5	68.9	65.8	65.8	65.8	75.2	75.2
25°	385.3	369.7	313.3	153.5	65.8	65.8	65.8	65.8	65.8	72.1	72.1
27.5°	397.9	385.3	303.9	109.7	59.5	59.5	62.7	62.7	62.7	65.8	68.9
30°	410.4	401.0	288.2	75.2	56.4	56.4	56.4	59.5	56.4	62.7	62.7
32.5°	426.1	419.8	263.2	56.4	50.1	50.1	50.1	53.3	53.3	56.4	59.5
35°	448.0	444.9	231.8	50.1	47.0	47.0	47.0	47.0	50.1	50.1	53.3
37.5°	476.2	473.1	194.2	47.0	43.9	40.7	40.7	40.7	40.7	43.9	47.0
40°	510.7	510.7	153.5	43.9	40.7	37.6	37.6	34.5	34.5	34.5	37.6
42.5°	551.4	551.4	112.8	40.7	37.6	34.5	31.3	28.2	25.1	25.1	28.2
45°	592.1	589.0	78.3	40.7	37.6	31.3	25.1	21.9	15.7	15.7	18.8
47.5°	648.5	623.4	53.3	40.7	37.6	28.2	21.9	12.5	9.4	9.4	12.5
50°	730.0	670.4	43.9	37.6	34.5	21.9	15.7	9.4	6.3	6.3	9.4
52.5°	852.1	730.0	40.7	34.5	31.3	18.8	9.4	6.3	6.3	6.3	6.3
55°	971.2	789.5	40.7	31.3	25.1	12.5	6.3	3.1	3.1	3.1	3.1
57.5°	1087.1	852.1	37.6	28.2	18.8	6.3	3.1	3.1	3.1	3.1	3.1
60°	1225.0	902.3	31.3	21.9	12.5	6.3	3.1	3.1	3.1	3.1	3.1
62.5°	1428.6	946.1	21.9	15.7	9.4	3.1	3.1	3.1	3.1	3.1	3.1
65°	1673.0	980.6	15.7	12.5	6.3	3.1	3.1	3.1	0.0	0.0	0.0
67.5°	1826.5	980.6	9.4	9.4	3.1	3.1	3.1	0.0	0.0	0.0	0.0
70°	1801.4	905.4	9.4	6.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	1453.7	629.7	6.3	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	686.1	194.2	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	188.0	53.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.3	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	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)