

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: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **ARCH3-60-AMB-U-T2R-HSS**

Issue Date: 12/16/2024

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ARCH3-60-AMB-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1848 lumens
Efficiency: N/A
Efficacy: 31.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

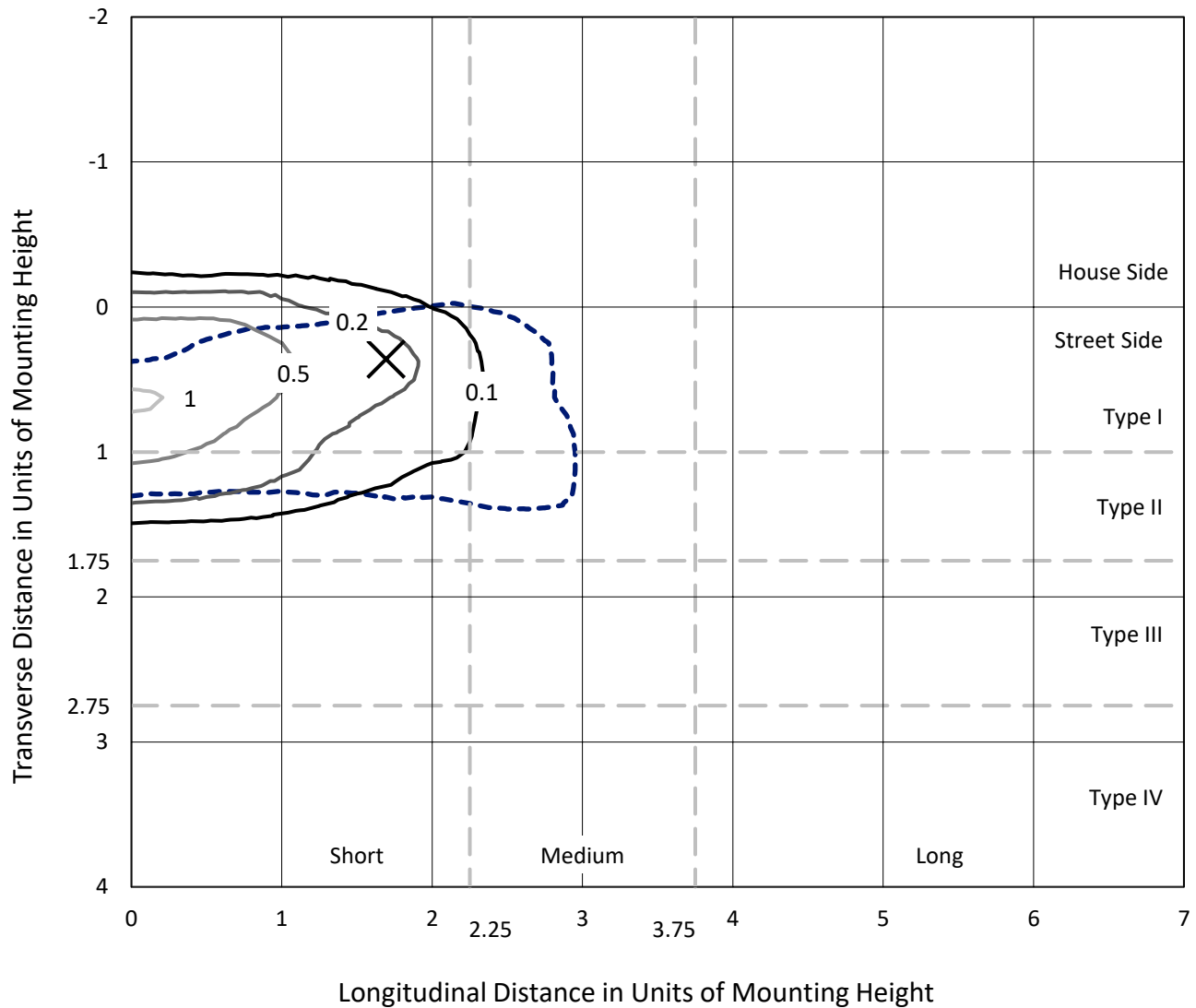
Input Watts (W): 58.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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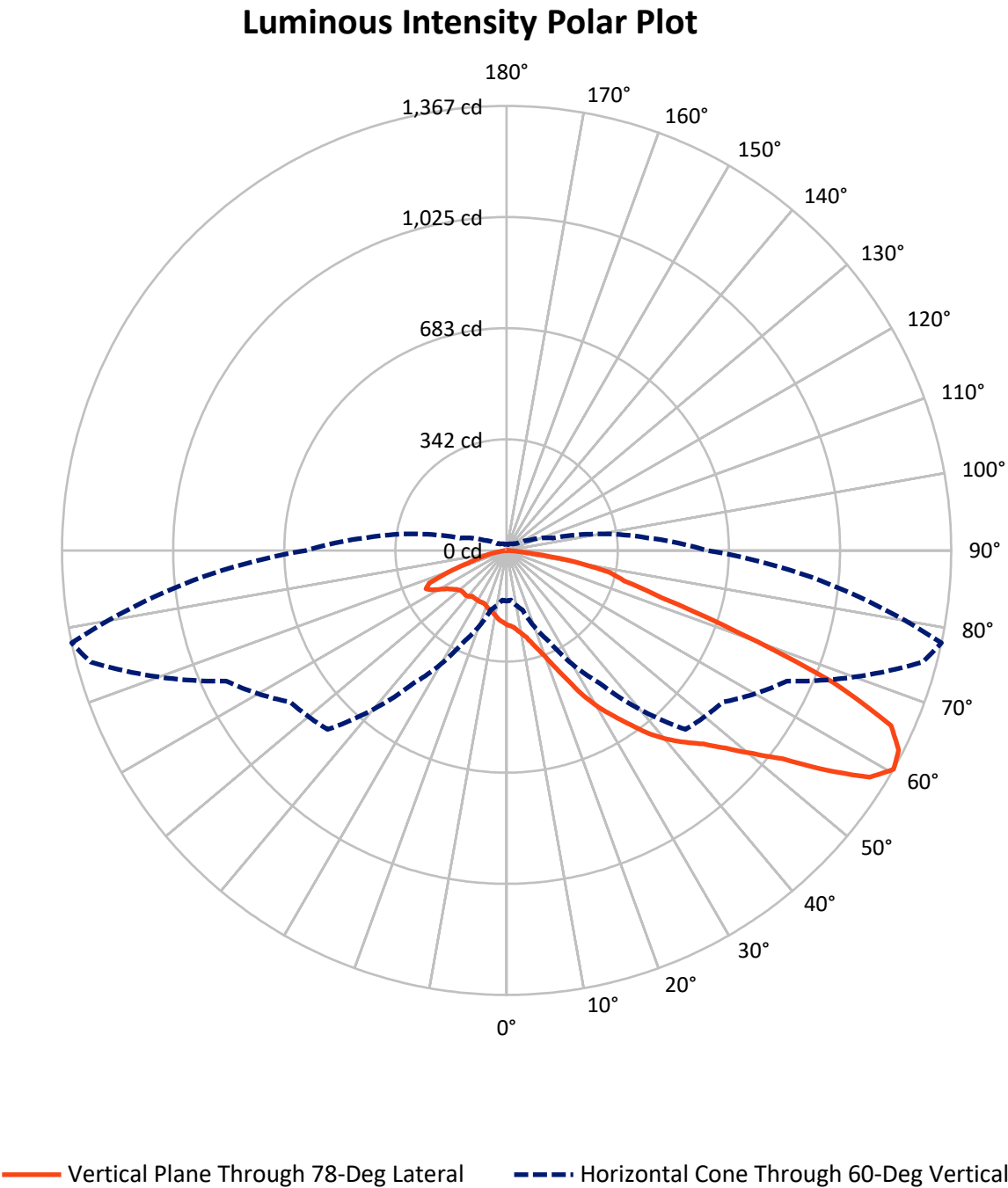
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type II - Short - N/A

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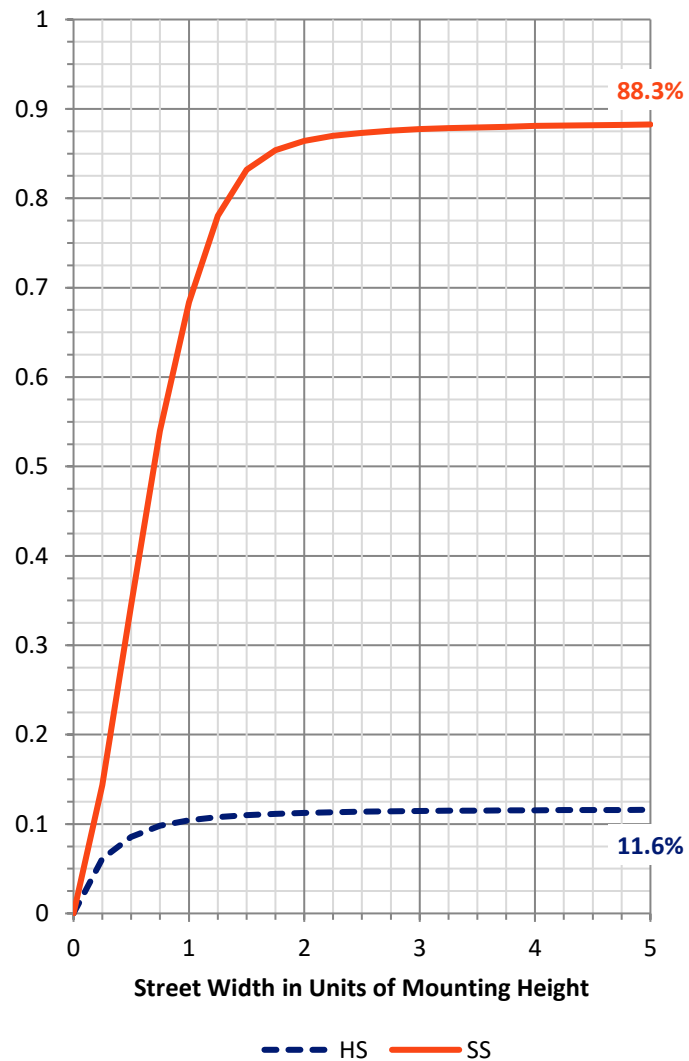
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	216.2	0.0	216.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	1631.8	0.0	1631.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	1848.0	0.0	1848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	1.2
10°-20°	82.3	4.5
20°-30°	171.5	9.3
30°-40°	309.1	16.7
40°-50°	411.4	22.3
50°-60°	397.8	21.5
60°-70°	313.6	17.0
70°-80°	126.1	6.8
80°-90°	14.0	0.8
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°	1848.0	100.0
0°-180°	1848.0	100.0

Coefficient of Utilization



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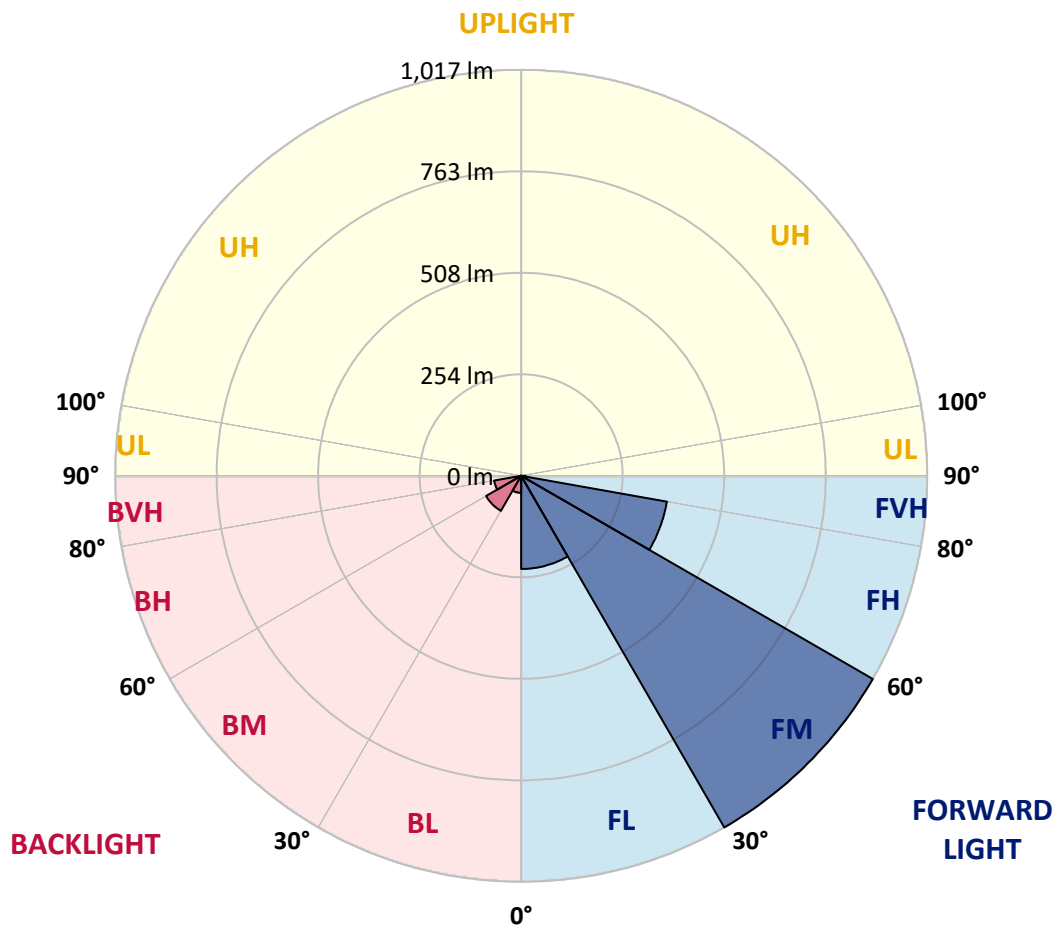
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.3	12.6			
FM	(30°-60°)	1017.0	55.0			
FH	(60°-80°)	370.8	20.1			G0/660
FVH	(80°-90°)	10.8	0.6			G1/100
BL	(0°-30°)	42.8	2.3	B0/110		
BM	(30°-60°)	101.3	5.5	B0/220		
BH	(60°-80°)	68.9	3.7	B0/110		G0/110
BVH	(80°-90°)	3.2	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2
2.5°	251.8	254.6	254.6	251.8	249.0	246.1	240.5	237.7	232.0	232.0	229.2
5°	305.6	308.4	305.6	299.9	288.6	277.3	263.1	251.8	240.5	237.7	232.0
7.5°	367.8	373.5	367.8	359.3	345.2	322.5	297.1	274.4	251.8	249.0	237.7
10°	441.4	447.0	438.5	421.6	401.8	373.5	345.2	302.7	268.8	260.3	243.3
12.5°	529.1	534.7	520.6	497.9	466.8	430.0	393.3	342.3	288.6	274.4	251.8
15°	599.8	605.5	597.0	574.3	546.0	500.8	449.8	390.4	319.7	297.1	263.1
17.5°	639.4	645.1	642.2	630.9	611.1	571.5	512.1	438.5	353.7	322.5	274.4
20°	670.5	673.4	673.4	659.2	650.7	630.9	577.2	492.3	393.3	353.7	285.8
22.5°	710.1	715.8	707.3	693.2	676.2	673.4	633.8	551.7	441.4	396.1	302.7
25°	766.7	769.6	752.6	729.9	710.1	698.8	681.8	611.1	495.1	447.0	331.0
27.5°	851.6	851.6	831.8	789.4	749.7	727.1	724.3	676.2	554.5	506.4	365.0
30°	970.4	970.4	939.3	874.2	809.2	766.7	749.7	732.8	613.9	560.2	396.1
32.5°	1106.2	1106.2	1066.6	984.6	885.6	814.8	789.4	772.4	667.7	608.3	424.4
35°	1202.4	1202.4	1177.0	1092.1	976.1	882.7	837.5	820.5	724.3	659.2	452.7
37.5°	1205.3	1208.1	1219.4	1160.0	1066.6	978.9	899.7	877.1	775.2	715.8	489.5
40°	1148.7	1143.0	1174.1	1154.3	1114.7	1069.5	981.7	942.1	826.1	763.9	520.6
42.5°	1086.4	1077.9	1103.4	1100.6	1089.3	1103.4	1075.1	1001.6	882.7	806.3	534.7
45°	1038.3	1027.0	1027.0	1029.8	1032.7	1072.3	1126.0	1077.9	933.6	848.8	554.5
47.5°	981.7	964.8	959.1	950.6	961.9	987.4	1120.4	1162.8	998.7	908.2	582.8
50°	894.0	874.2	882.7	879.9	908.2	902.5	1046.8	1196.8	1080.8	981.7	625.3
52.5°	684.7	662.0	741.3	809.2	868.6	845.9	930.8	1179.8	1191.1	1063.8	676.2
55°	447.0	435.7	509.3	647.9	817.7	823.3	834.6	1117.6	1290.1	1191.1	738.4
57.5°	257.5	249.0	322.5	464.0	679.0	829.0	795.0	1021.4	1332.6	1315.6	829.0
60°	155.6	152.8	189.6	308.4	497.9	778.0	812.0	950.6	1324.1	1366.5	939.3
62.5°	110.3	110.3	124.5	200.9	331.0	599.8	862.9	945.0	1315.6	1352.4	1010.0
65°	84.9	82.0	93.4	133.0	220.7	396.1	812.0	1015.7	1244.9	1298.6	1029.8
67.5°	65.1	65.1	73.6	93.4	158.4	240.5	565.8	1165.6	1100.6	1083.6	894.0
70°	53.8	53.8	59.4	73.6	116.0	164.1	336.7	1055.3	826.1	752.6	696.0
72.5°	42.4	42.4	48.1	59.4	90.5	113.2	178.2	710.1	611.1	500.8	537.6
75°	31.1	31.1	36.8	48.1	67.9	76.4	101.9	398.9	486.6	373.5	444.2
77.5°	22.6	22.6	28.3	34.0	45.3	50.9	56.6	195.2	475.3	322.5	319.7
80°	11.3	14.1	17.0	25.5	25.5	28.3	31.1	65.1	322.5	212.2	161.3
82.5°	8.5	8.5	11.3	14.1	14.1	14.1	17.0	17.0	118.8	84.9	62.2
85°	2.8	5.7	5.7	5.7	8.5	5.7	8.5	5.7	25.5	19.8	25.5
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2
2.5°	229.2	226.3	220.7	215.0	212.2	209.4	203.7	200.9	198.0	198.0	200.9
5°	229.2	223.5	215.0	203.7	192.4	181.1	166.9	158.4	152.8	149.9	152.8
7.5°	232.0	223.5	206.5	183.9	164.1	144.3	121.7	107.5	99.0	96.2	96.2
10°	232.0	220.7	195.2	164.1	135.8	104.7	87.7	79.2	76.4	76.4	76.4
12.5°	237.7	220.7	186.7	144.3	104.7	82.0	73.6	67.9	67.9	67.9	67.9
15°	243.3	223.5	178.2	127.3	87.7	70.7	65.1	62.2	62.2	62.2	62.2
17.5°	249.0	223.5	172.6	107.5	76.4	65.1	62.2	59.4	56.6	56.6	56.6
20°	254.6	226.3	164.1	90.5	67.9	62.2	56.6	53.8	53.8	53.8	53.8
22.5°	263.1	229.2	155.6	79.2	62.2	56.6	53.8	50.9	50.9	48.1	50.9
25°	277.3	237.7	149.9	70.7	59.4	53.8	50.9	48.1	48.1	45.3	45.3
27.5°	302.7	254.6	144.3	67.9	56.6	50.9	48.1	45.3	45.3	42.4	42.4
30°	322.5	268.8	138.6	67.9	53.8	48.1	45.3	42.4	42.4	39.6	39.6
32.5°	339.5	280.1	133.0	70.7	53.8	48.1	42.4	42.4	39.6	39.6	39.6
35°	356.5	291.4	127.3	73.6	56.6	45.3	42.4	39.6	36.8	36.8	36.8
37.5°	379.1	302.7	121.7	76.4	59.4	45.3	39.6	36.8	34.0	34.0	34.0
40°	410.2	325.4	121.7	76.4	62.2	45.3	36.8	34.0	34.0	34.0	34.0
42.5°	413.1	331.0	124.5	76.4	62.2	45.3	36.8	34.0	31.1	31.1	31.1
45°	410.2	328.2	124.5	82.0	59.4	45.3	34.0	31.1	31.1	31.1	31.1
47.5°	427.2	333.9	121.7	84.9	53.8	42.4	31.1	31.1	31.1	28.3	28.3
50°	449.8	345.2	121.7	87.7	50.9	36.8	31.1	28.3	28.3	28.3	28.3
52.5°	478.1	359.3	124.5	90.5	48.1	34.0	28.3	28.3	28.3	25.5	25.5
55°	514.9	379.1	130.1	87.7	45.3	31.1	28.3	25.5	25.5	25.5	25.5
57.5°	563.0	404.6	135.8	82.0	42.4	28.3	25.5	25.5	22.6	22.6	19.8
60°	616.8	438.5	147.1	73.6	36.8	28.3	25.5	22.6	19.8	19.8	19.8
62.5°	676.2	483.8	161.3	53.8	31.1	25.5	22.6	19.8	17.0	17.0	17.0
65°	707.3	531.9	164.1	36.8	25.5	22.6	22.6	19.8	17.0	14.1	14.1
67.5°	650.7	517.8	147.1	28.3	22.6	19.8	19.8	17.0	14.1	14.1	14.1
70°	540.4	418.7	93.4	22.6	19.8	17.0	17.0	14.1	14.1	11.3	11.3
72.5°	398.9	305.6	45.3	19.8	17.0	17.0	14.1	14.1	11.3	11.3	11.3
75°	336.7	232.0	25.5	17.0	14.1	14.1	11.3	11.3	8.5	8.5	8.5
77.5°	291.4	166.9	17.0	14.1	11.3	11.3	8.5	8.5	8.5	5.7	5.7
80°	164.1	65.1	11.3	11.3	8.5	8.5	8.5	5.7	5.7	5.7	5.7
82.5°	62.2	19.8	8.5	8.5	5.7	5.7	5.7	5.7	5.7	2.8	2.8
85°	22.6	8.5	5.7	5.7	5.7	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	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)