

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: **ARCH4-110-AMB-U-T2U-HSS**

Issue Date: 12/16/2024

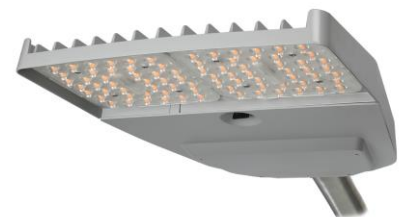
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-2)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ARCH4-110-AMB-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3258 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

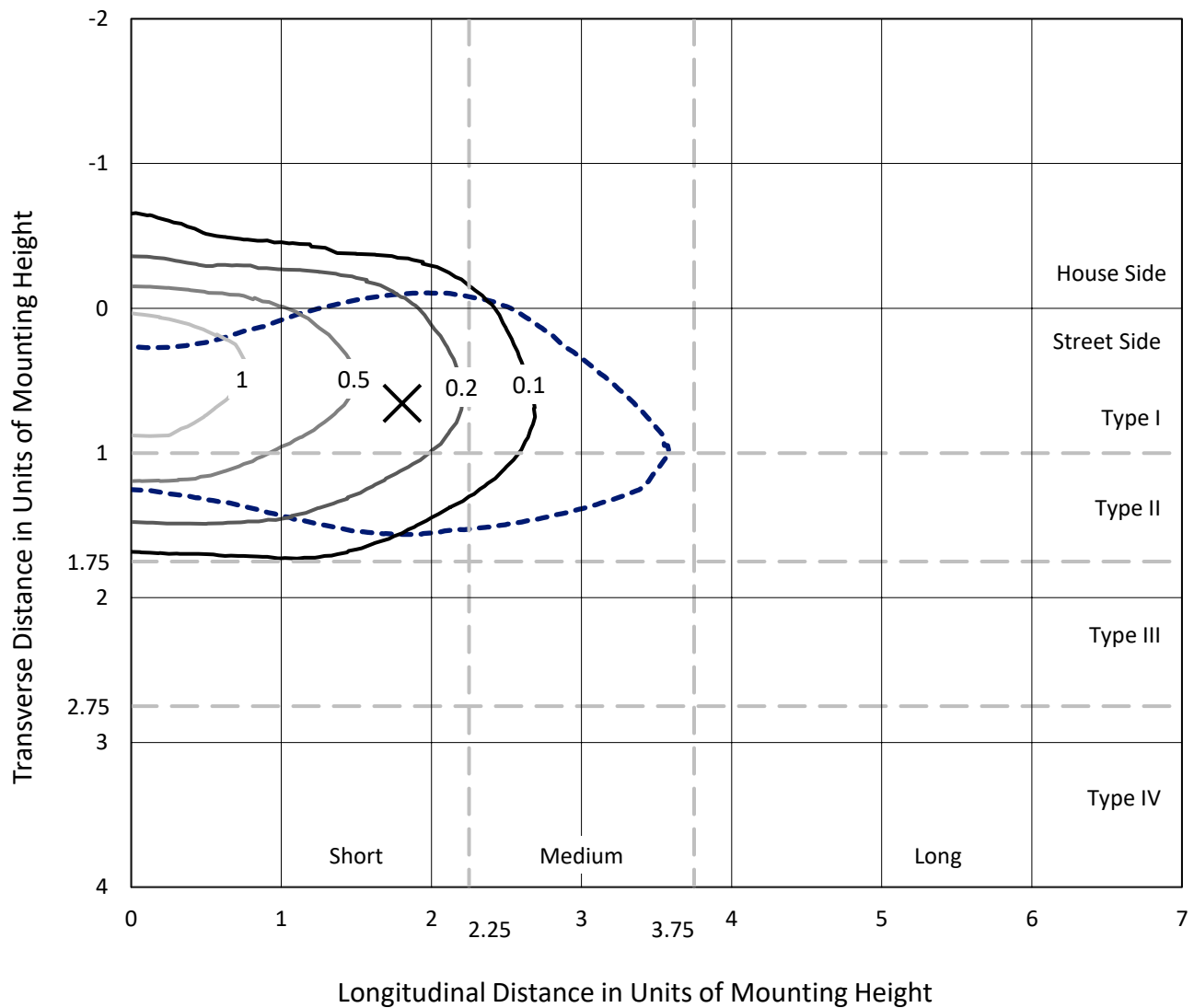
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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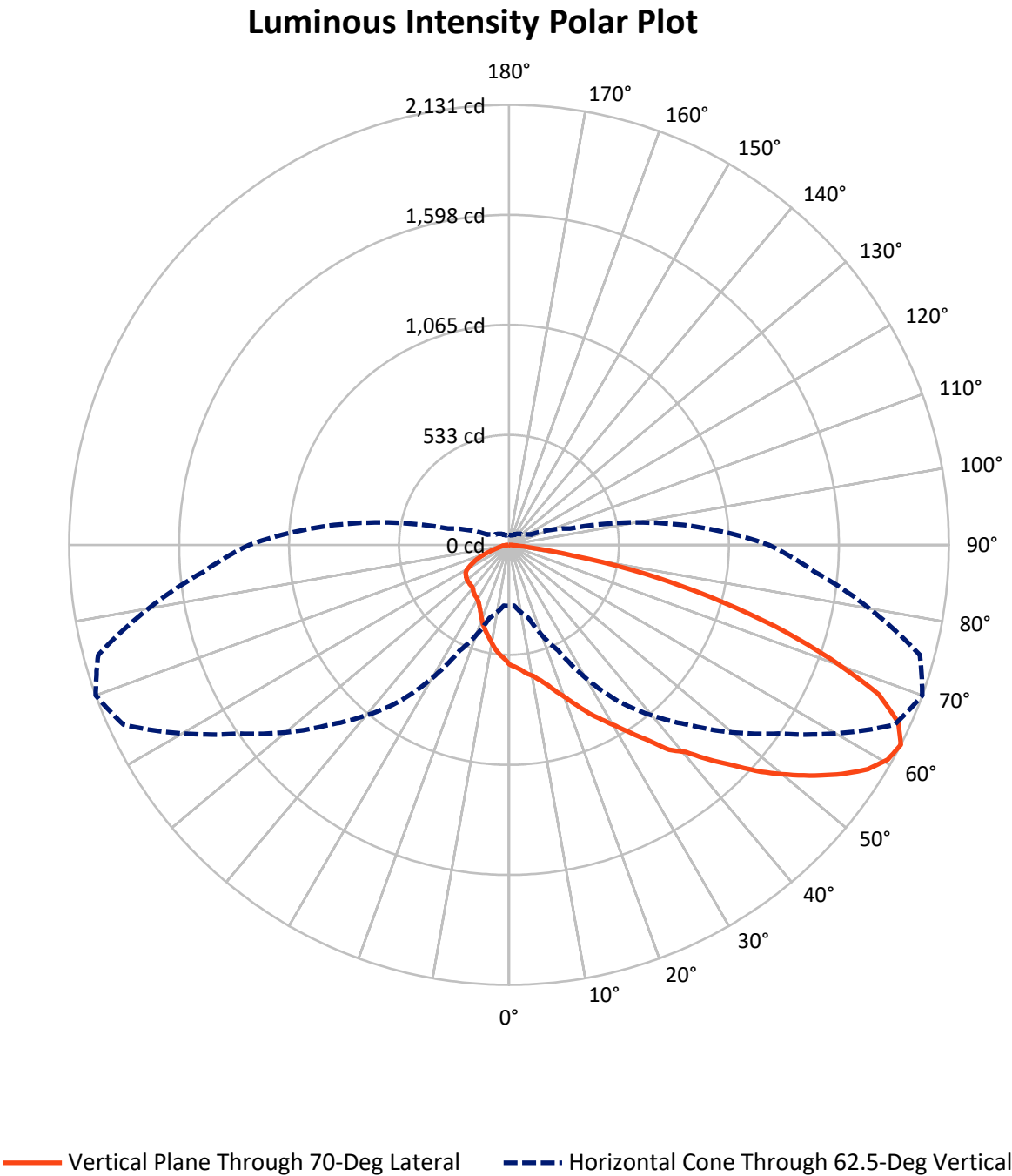
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Short - N/A

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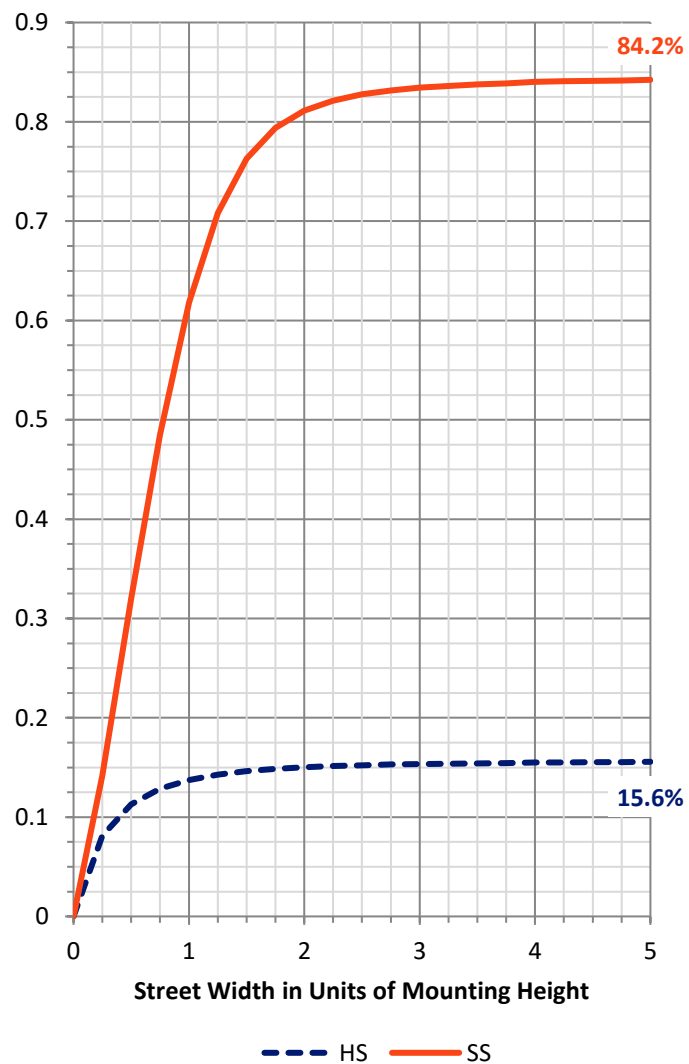
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.5	0.0	512.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2745.4	0.0	2745.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	3258.0	0.0	3258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.6
10°-20°	169.4	5.2
20°-30°	300.4	9.2
30°-40°	460.8	14.1
40°-50°	644.2	19.8
50°-60°	717.2	22.0
60°-70°	608.2	18.7
70°-80°	272.8	8.4
80°-90°	31.2	1.0
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°	3258.0	100.0
0°-180°	3258.0	100.0

Coefficient of Utilization



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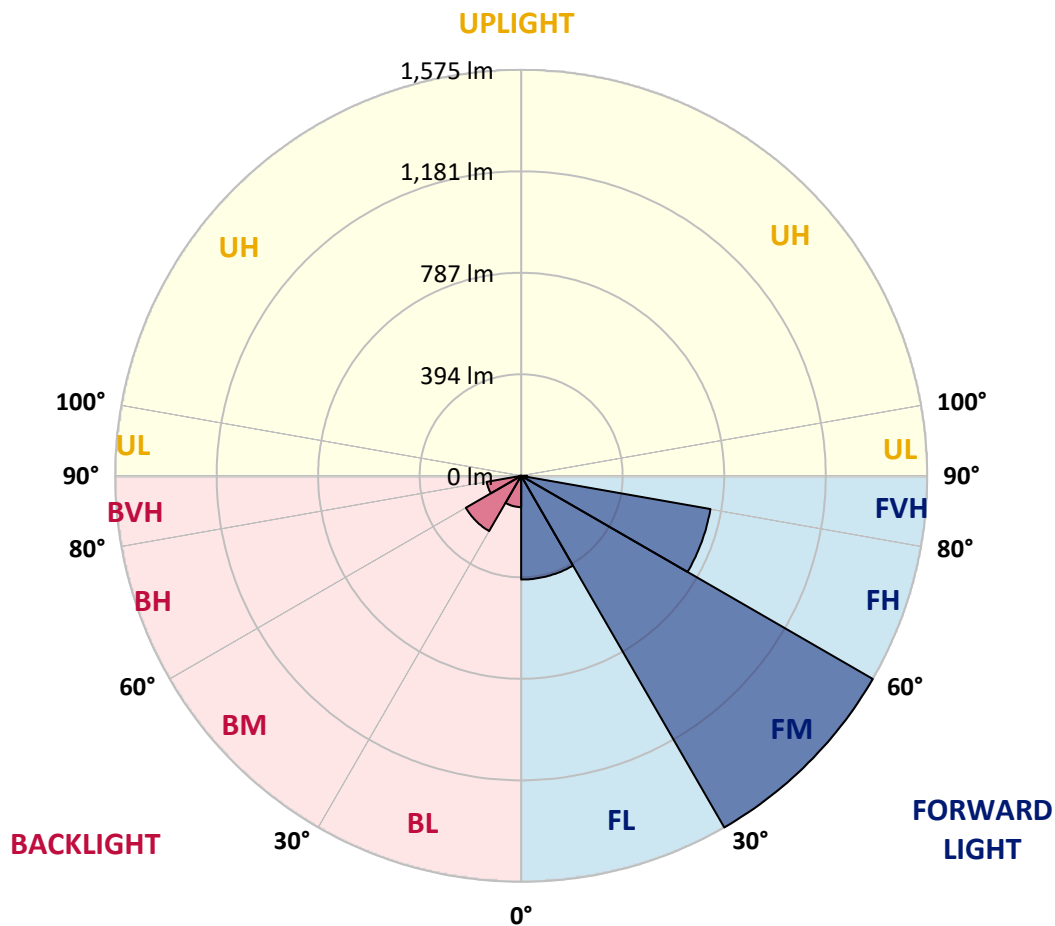
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.3	12.3			
FM	(30°-60°)	1574.6	48.3			
FH	(60°-80°)	745.4	22.9			G1/1800
FVH	(80°-90°)	23.2	0.7			G1/100
BL	(0°-30°)	121.3	3.7	B1/500		
BM	(30°-60°)	247.7	7.6	B1/1000		
BH	(60°-80°)	135.6	4.2	B1/500		G1/500
BVH	(80°-90°)	8.0	0.2			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°	65°	70°	75°	85°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	629.5	624.1	624.1	618.7	613.3	613.3	602.6	597.2	591.8	586.4	581.1
5°	677.9	677.9	667.1	661.8	651.0	645.6	629.5	618.7	608.0	602.6	586.4
7.5°	769.4	758.6	747.8	731.7	704.8	683.3	661.8	640.2	629.5	613.3	591.8
10°	871.6	866.2	850.1	828.5	780.1	747.8	699.4	661.8	645.6	629.5	597.2
12.5°	968.4	968.4	952.3	920.0	871.6	823.2	758.6	694.0	672.5	645.6	608.0
15°	1081.4	1076.0	1059.9	1016.9	957.7	898.5	823.2	737.1	704.8	672.5	624.1
17.5°	1156.7	1156.7	1140.6	1102.9	1038.4	973.8	887.7	790.9	747.8	694.0	640.2
20°	1194.4	1194.4	1183.6	1156.7	1108.3	1049.1	952.3	844.7	790.9	726.3	656.4
22.5°	1210.5	1210.5	1210.5	1205.2	1162.1	1113.7	1016.9	903.9	844.7	764.0	672.5
25°	1189.0	1189.0	1199.8	1210.5	1205.2	1172.9	1086.8	963.1	903.9	812.4	694.0
27.5°	1178.3	1178.3	1189.0	1210.5	1215.9	1215.9	1156.7	1027.6	957.7	860.8	720.9
30°	1221.3	1221.3	1215.9	1221.3	1226.7	1248.2	1205.2	1086.8	1016.9	920.0	753.2
32.5°	1312.8	1302.0	1291.2	1285.9	1259.0	1291.2	1269.7	1151.4	1086.8	984.6	790.9
35°	1377.3	1371.9	1371.9	1371.9	1328.9	1328.9	1328.9	1221.3	1162.1	1059.9	839.3
37.5°	1425.7	1425.7	1425.7	1436.5	1420.4	1404.2	1398.8	1312.8	1259.0	1129.8	893.1
40°	1452.6	1458.0	1484.9	1495.7	1474.2	1479.5	1468.8	1393.5	1318.1	1199.8	925.4
42.5°	1501.1	1517.2	1560.3	1549.5	1511.8	1522.6	1528.0	1468.8	1420.4	1291.2	990.0
45°	1425.7	1436.5	1506.4	1544.1	1528.0	1549.5	1597.9	1560.3	1522.6	1404.2	1059.9
47.5°	1355.8	1350.4	1404.2	1474.2	1506.4	1571.0	1662.5	1667.9	1641.0	1517.2	1135.2
50°	1172.9	1183.6	1302.0	1393.5	1463.4	1576.4	1710.9	1770.1	1748.6	1630.2	1205.2
52.5°	973.8	984.6	1108.3	1296.6	1409.6	1560.3	1743.2	1866.9	1856.2	1727.0	1275.1
55°	769.4	790.9	920.0	1129.8	1328.9	1506.4	1770.1	1953.0	1958.4	1834.6	1355.8
57.5°	581.1	602.6	726.3	946.9	1221.3	1425.7	1764.7	2022.9	2049.8	1926.1	1420.4
60°	408.9	425.0	511.1	753.2	1086.8	1334.3	1705.5	2066.0	2109.0	2012.2	1468.8
62.5°	295.9	295.9	365.9	564.9	925.4	1232.1	1592.5	2060.6	2130.6	2060.6	1484.9
65°	204.4	204.4	242.1	403.5	758.6	1092.2	1436.5	1953.0	2071.4	2049.8	1479.5
67.5°	145.3	150.6	172.2	274.4	591.8	898.5	1248.2	1770.1	1931.5	1926.1	1366.6
70°	113.0	113.0	129.1	199.1	441.2	688.7	995.3	1468.8	1651.7	1662.5	1140.6
72.5°	91.5	91.5	102.2	145.3	328.2	495.0	694.0	1135.2	1345.0	1366.6	903.9
75°	64.6	69.9	75.3	107.6	236.7	312.1	435.8	817.8	1006.1	1059.9	688.7
77.5°	43.0	48.4	53.8	75.3	134.5	182.9	242.1	505.7	672.5	758.6	478.8
80°	21.5	26.9	32.3	48.4	69.9	91.5	123.7	204.4	312.1	451.9	295.9
82.5°	16.1	16.1	21.5	26.9	37.7	43.0	53.8	69.9	102.2	209.8	166.8
85°	5.4	10.8	10.8	10.8	16.1	16.1	21.5	16.1	21.5	59.2	75.3
87.5°	0.0	0.0	0.0	5.4	5.4	5.4	5.4	5.4	5.4	5.4	10.8
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°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	575.7	570.3	559.5	548.8	543.4	532.6	521.9	516.5	511.1	511.1	505.7
5°	575.7	564.9	548.8	521.9	500.4	478.8	457.3	446.6	435.8	430.4	425.0
7.5°	575.7	559.5	532.6	495.0	451.9	419.7	387.4	371.2	355.1	349.7	344.3
10°	581.1	559.5	516.5	457.3	403.5	360.5	322.8	301.3	285.1	279.8	274.4
12.5°	586.4	559.5	495.0	425.0	360.5	306.7	263.6	242.1	231.3	226.0	220.6
15°	597.2	559.5	484.2	392.8	317.4	258.2	226.0	204.4	193.7	188.3	188.3
17.5°	608.0	564.9	468.1	360.5	274.4	220.6	193.7	177.5	166.8	166.8	166.8
20°	613.3	564.9	451.9	328.2	236.7	193.7	172.2	156.0	150.6	145.3	145.3
22.5°	624.1	570.3	430.4	295.9	209.8	172.2	150.6	139.9	134.5	134.5	134.5
25°	640.2	575.7	414.3	263.6	188.3	156.0	139.9	129.1	123.7	123.7	123.7
27.5°	661.8	586.4	398.1	242.1	166.8	139.9	129.1	123.7	118.4	118.4	118.4
30°	683.3	602.6	392.8	220.6	156.0	129.1	118.4	113.0	113.0	113.0	113.0
32.5°	710.2	618.7	387.4	209.8	145.3	123.7	113.0	107.6	107.6	107.6	107.6
35°	747.8	645.6	382.0	204.4	139.9	118.4	107.6	102.2	102.2	102.2	102.2
37.5°	790.9	672.5	376.6	193.7	139.9	113.0	102.2	102.2	102.2	102.2	96.8
40°	807.0	677.9	360.5	188.3	134.5	113.0	96.8	96.8	96.8	96.8	96.8
42.5°	850.1	710.2	355.1	182.9	134.5	107.6	96.8	91.5	91.5	91.5	91.5
45°	909.3	753.2	355.1	182.9	134.5	107.6	91.5	86.1	86.1	86.1	86.1
47.5°	973.8	801.6	349.7	182.9	129.1	102.2	91.5	86.1	80.7	80.7	80.7
50°	1027.6	833.9	349.7	182.9	129.1	102.2	86.1	80.7	80.7	75.3	75.3
52.5°	1081.4	866.2	344.3	177.5	123.7	96.8	80.7	75.3	75.3	69.9	69.9
55°	1140.6	898.5	339.0	172.2	118.4	91.5	75.3	69.9	69.9	64.6	64.6
57.5°	1194.4	930.8	333.6	166.8	107.6	86.1	75.3	64.6	59.2	59.2	59.2
60°	1237.4	946.9	322.8	150.6	102.2	80.7	69.9	59.2	53.8	53.8	53.8
62.5°	1259.0	946.9	306.7	118.4	86.1	75.3	64.6	53.8	48.4	48.4	48.4
65°	1232.1	914.6	279.8	91.5	75.3	64.6	59.2	48.4	48.4	43.0	43.0
67.5°	1129.8	812.4	236.7	75.3	69.9	59.2	53.8	48.4	43.0	37.7	37.7
70°	936.2	677.9	177.5	59.2	59.2	53.8	48.4	43.0	37.7	32.3	32.3
72.5°	753.2	538.0	123.7	48.4	48.4	43.0	43.0	37.7	32.3	26.9	26.9
75°	554.2	387.4	80.7	43.0	43.0	37.7	32.3	32.3	26.9	26.9	26.9
77.5°	376.6	209.8	59.2	37.7	32.3	32.3	26.9	21.5	21.5	21.5	21.5
80°	220.6	102.2	43.0	26.9	26.9	21.5	21.5	16.1	16.1	16.1	16.1
82.5°	123.7	48.4	32.3	21.5	16.1	16.1	16.1	16.1	16.1	10.8	10.8
85°	53.8	21.5	16.1	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
87.5°	10.8	5.4	5.4	5.4	5.4	5.4	5.4	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)