

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-T3**

Issue Date: 12/16/2024

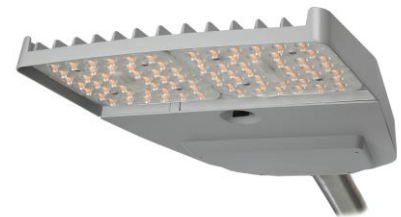
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-7)
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-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4821 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

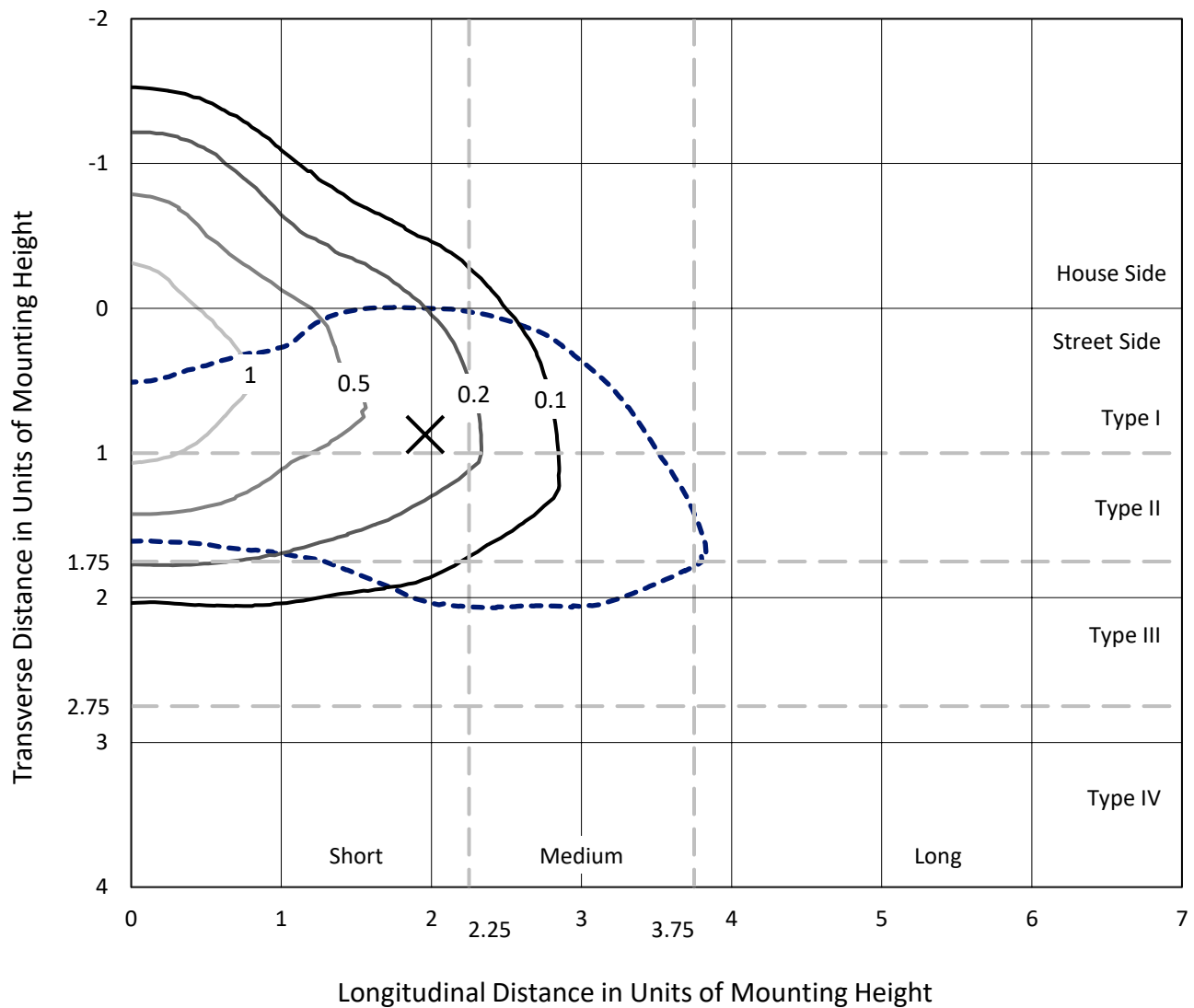
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

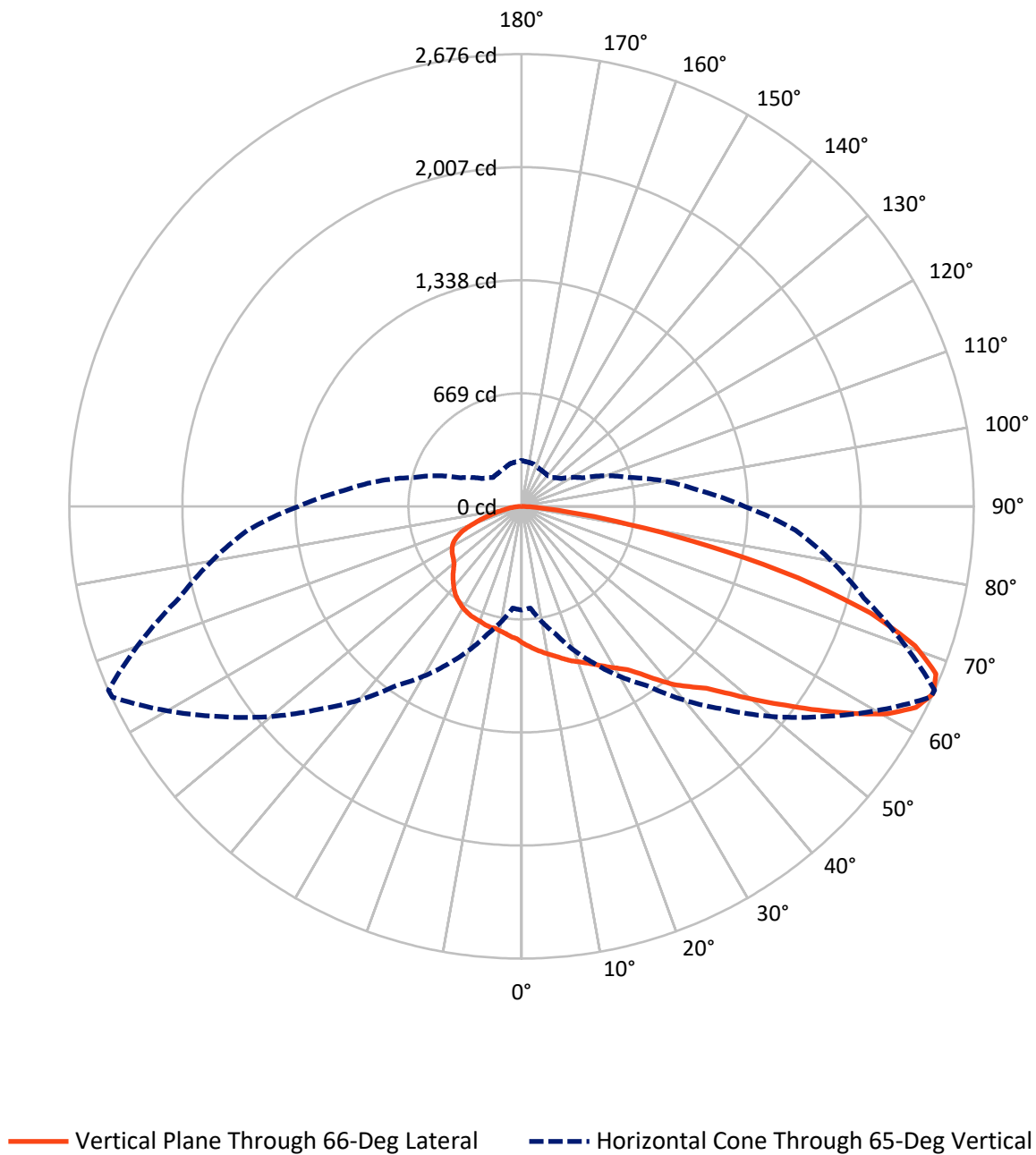
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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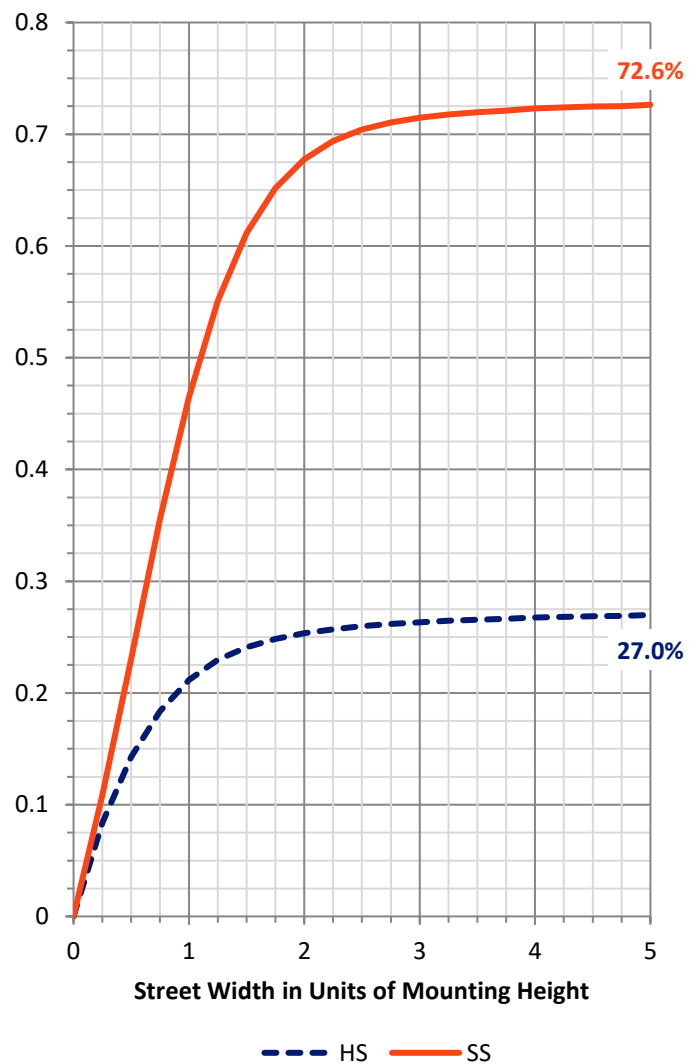
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1312.8	0.0	1312.8
	% Fixture	27.2	0.0	27.2
Street Side	Lumens	3508.2	0.0	3508.2
	% Fixture	72.8	0.0	72.8
Total	Lumens	4821.0	0.0	4821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.6
10°-20°	247.5	5.1
20°-30°	423.1	8.8
30°-40°	647.0	13.4
40°-50°	874.5	18.1
50°-60°	1024.8	21.3
60°-70°	953.2	19.8
70°-80°	500.5	10.4
80°-90°	71.1	1.5
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°	4821.0	100.0
0°-180°	4821.0	100.0

Coefficient of Utilization



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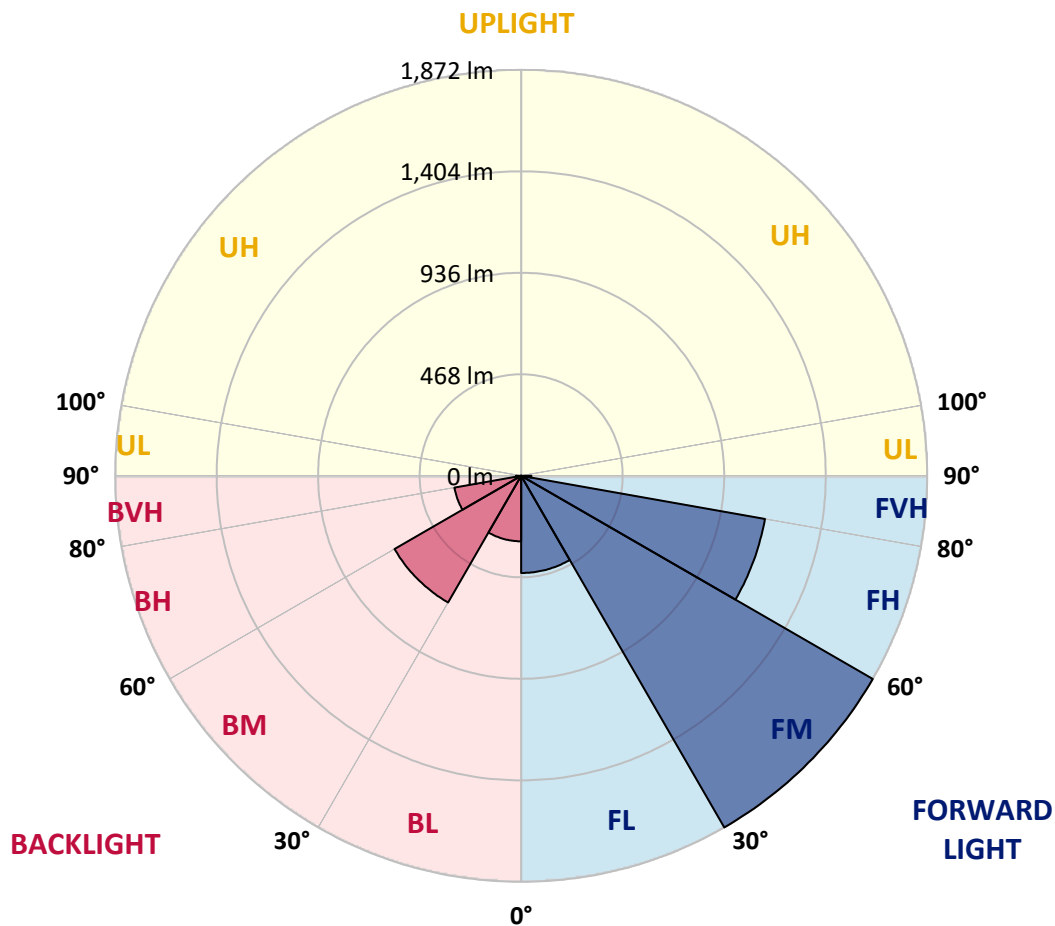
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.1	9.3			
FM	(30°-60°)	1872.0	38.8			
FH	(60°-80°)	1141.3	23.7			G1/1800
FVH	(80°-90°)	46.8	1.0			G1/100
BL	(0°-30°)	301.9	6.3	B1/500		
BM	(30°-60°)	674.3	14.0	B1/1000		
BH	(60°-80°)	312.4	6.5	B1/500		G1/500
BVH	(80°-90°)	24.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	864.7	864.7	859.6	859.6	849.4	844.3	834.0	823.8	828.9	813.6	808.5
5°	931.3	931.3	926.1	915.9	900.6	885.2	869.9	849.4	849.4	828.9	813.6
7.5°	992.7	997.8	987.6	972.2	951.7	931.3	900.6	869.9	869.9	839.2	818.7
10°	1054.1	1049.0	1043.8	1023.4	997.8	967.1	931.3	890.3	890.3	849.4	813.6
12.5°	1095.0	1095.0	1084.8	1069.4	1043.8	1008.0	962.0	910.8	910.8	859.6	818.7
15°	1110.4	1110.4	1110.4	1105.2	1084.8	1049.0	997.8	936.4	936.4	875.0	823.8
17.5°	1115.5	1115.5	1120.6	1125.7	1115.5	1095.0	1038.7	967.1	962.0	890.3	828.9
20°	1110.4	1110.4	1120.6	1130.8	1141.1	1125.7	1074.5	987.6	982.4	900.6	834.0
22.5°	1130.8	1125.7	1130.8	1146.2	1156.4	1156.4	1110.4	1013.1	1008.0	915.9	844.3
25°	1212.7	1207.6	1202.5	1182.0	1187.1	1192.2	1146.2	1049.0	1038.7	941.5	859.6
27.5°	1361.1	1345.7	1335.5	1289.4	1258.7	1243.4	1187.1	1084.8	1074.5	962.0	875.0
30°	1494.1	1483.9	1473.7	1417.4	1361.1	1304.8	1238.3	1120.6	1110.4	987.6	895.4
32.5°	1591.3	1591.3	1591.3	1550.4	1473.7	1376.4	1299.7	1161.5	1151.3	1018.3	926.1
35°	1647.6	1647.6	1663.0	1637.4	1550.4	1458.3	1386.7	1228.0	1217.8	1069.4	977.3
37.5°	1683.4	1678.3	1698.8	1673.2	1581.1	1524.8	1473.7	1304.8	1299.7	1115.5	1018.3
40°	1801.1	1785.8	1801.1	1724.4	1601.6	1581.1	1565.8	1396.9	1386.7	1176.9	1074.5
42.5°	1908.6	1908.6	1898.3	1780.7	1652.7	1637.4	1652.7	1468.5	1458.3	1202.5	1095.0
45°	1954.6	1934.2	1908.6	1816.5	1755.1	1678.3	1724.4	1545.3	1535.1	1279.2	1146.2
47.5°	1970.0	1949.5	1929.1	1862.5	1826.7	1734.6	1801.1	1673.2	1657.9	1350.8	1222.9
50°	1934.2	1918.8	1923.9	1883.0	1888.1	1780.7	1877.9	1826.7	1801.1	1448.1	1304.8
52.5°	1826.7	1831.8	1857.4	1883.0	1857.4	1806.2	1964.9	1990.5	1954.6	1545.3	1391.8
55°	1616.9	1642.5	1729.5	1811.4	1826.7	1821.6	2051.9	2154.2	2128.6	1657.9	1463.4
57.5°	1417.4	1412.2	1494.1	1693.7	1770.4	1842.1	2133.7	2333.3	2312.8	1780.7	1519.7
60°	1100.1	1125.7	1243.4	1478.8	1678.3	1842.1	2200.2	2512.4	2491.9	1893.2	1560.6
62.5°	854.5	849.4	1013.1	1217.8	1499.2	1796.0	2220.7	2630.1	2619.8	2000.7	1596.5
65°	614.0	603.8	782.9	1028.5	1294.6	1698.8	2169.5	2671.0	2676.1	2097.9	1627.2
67.5°	358.2	358.2	547.5	803.3	1100.1	1576.0	2026.3	2619.8	2645.4	2133.7	1565.8
70°	209.8	209.8	353.1	568.0	849.4	1437.8	1836.9	2440.7	2471.4	1959.8	1417.4
72.5°	158.6	158.6	250.7	378.6	578.2	1151.3	1576.0	2113.3	2159.3	1652.7	1135.9
75°	127.9	127.9	168.9	255.8	358.2	680.5	1263.9	1668.1	1693.7	1228.0	864.7
77.5°	102.3	102.3	117.7	158.6	199.6	337.7	736.8	1115.5	1135.9	859.6	634.5
80°	71.6	71.6	76.8	102.3	112.6	153.5	332.6	624.3	644.7	532.2	419.6
82.5°	40.9	40.9	46.1	56.3	61.4	81.9	148.4	291.7	291.7	301.9	250.7
85°	20.5	20.5	20.5	25.6	25.6	35.8	66.5	102.3	97.2	133.0	102.3
87.5°	5.1	5.1	5.1	5.1	5.1	10.2	15.4	15.4	15.4	20.5	15.4
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°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	803.3	798.2	793.1	782.9	782.9	777.8	772.6	767.5	767.5	767.5	767.5
5°	808.5	798.2	788.0	772.6	767.5	757.3	752.2	752.2	752.2	752.2	747.1
7.5°	803.3	793.1	772.6	757.3	752.2	747.1	741.9	741.9	741.9	741.9	741.9
10°	803.3	782.9	762.4	747.1	736.8	731.7	726.6	726.6	731.7	731.7	731.7
12.5°	803.3	782.9	757.3	736.8	731.7	726.6	721.5	726.6	726.6	731.7	731.7
15°	803.3	777.8	752.2	736.8	731.7	726.6	721.5	721.5	726.6	731.7	731.7
17.5°	803.3	777.8	747.1	731.7	726.6	721.5	716.4	716.4	721.5	731.7	731.7
20°	803.3	777.8	741.9	721.5	716.4	716.4	711.2	706.1	706.1	716.4	716.4
22.5°	813.6	777.8	741.9	716.4	706.1	695.9	690.8	685.7	685.7	695.9	695.9
25°	823.8	782.9	741.9	711.2	690.8	680.5	670.3	665.2	665.2	675.4	675.4
27.5°	834.0	793.1	741.9	701.0	670.3	655.0	649.8	649.8	649.8	655.0	660.1
30°	854.5	808.5	741.9	690.8	649.8	629.4	624.3	629.4	639.6	644.7	649.8
32.5°	885.2	823.8	741.9	675.4	624.3	598.7	608.9	624.3	634.5	639.6	644.7
35°	921.0	854.5	741.9	660.1	598.7	578.2	598.7	624.3	634.5	639.6	649.8
37.5°	967.1	895.4	752.2	639.6	578.2	557.7	583.3	624.3	639.6	644.7	649.8
40°	1013.1	931.3	757.3	614.0	552.6	542.4	568.0	624.3	629.4	629.4	634.5
42.5°	1023.4	915.9	736.8	588.4	532.2	527.0	547.5	603.8	614.0	608.9	608.9
45°	1064.3	941.5	721.5	562.9	506.6	506.6	511.7	568.0	593.6	593.6	593.6
47.5°	1120.6	972.2	706.1	532.2	481.0	481.0	481.0	532.2	557.7	562.9	552.6
50°	1182.0	1002.9	690.8	506.6	455.4	450.3	445.2	486.1	506.6	501.5	496.3
52.5°	1253.6	1028.5	680.5	491.2	434.9	409.3	409.3	434.9	450.3	445.2	440.0
55°	1299.7	1043.8	670.3	481.0	409.3	368.4	373.5	383.8	404.2	399.1	404.2
57.5°	1330.4	1054.1	665.2	470.7	378.6	332.6	332.6	347.9	363.3	368.4	368.4
60°	1340.6	1059.2	665.2	455.4	347.9	301.9	301.9	312.1	332.6	332.6	332.6
62.5°	1330.4	1059.2	665.2	434.9	317.2	271.2	271.2	281.4	291.7	291.7	291.7
65°	1320.1	1059.2	660.1	399.1	286.5	240.5	240.5	245.6	261.0	266.1	271.2
67.5°	1248.5	1002.9	608.9	358.2	250.7	214.9	209.8	220.0	235.4	235.4	240.5
70°	1110.4	869.9	486.1	301.9	220.0	184.2	184.2	189.3	204.7	199.6	199.6
72.5°	926.1	711.2	383.8	240.5	179.1	158.6	158.6	163.7	163.7	163.7	168.9
75°	762.4	532.2	286.5	179.1	143.3	127.9	133.0	133.0	133.0	143.3	143.3
77.5°	578.2	373.5	209.8	133.0	112.6	102.3	102.3	107.5	107.5	112.6	112.6
80°	363.3	240.5	138.2	92.1	76.8	76.8	76.8	81.9	87.0	92.1	87.0
82.5°	204.7	143.3	81.9	66.5	56.3	51.2	51.2	56.3	61.4	61.4	61.4
85°	81.9	76.8	51.2	35.8	35.8	30.7	30.7	35.8	35.8	35.8	35.8
87.5°	15.4	20.5	15.4	15.4	15.4	10.2	10.2	5.1	5.1	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)