

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-PFS**

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 (G2-2406-129-6)
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-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2546 lumens
Efficiency: N/A
Efficacy: 43.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

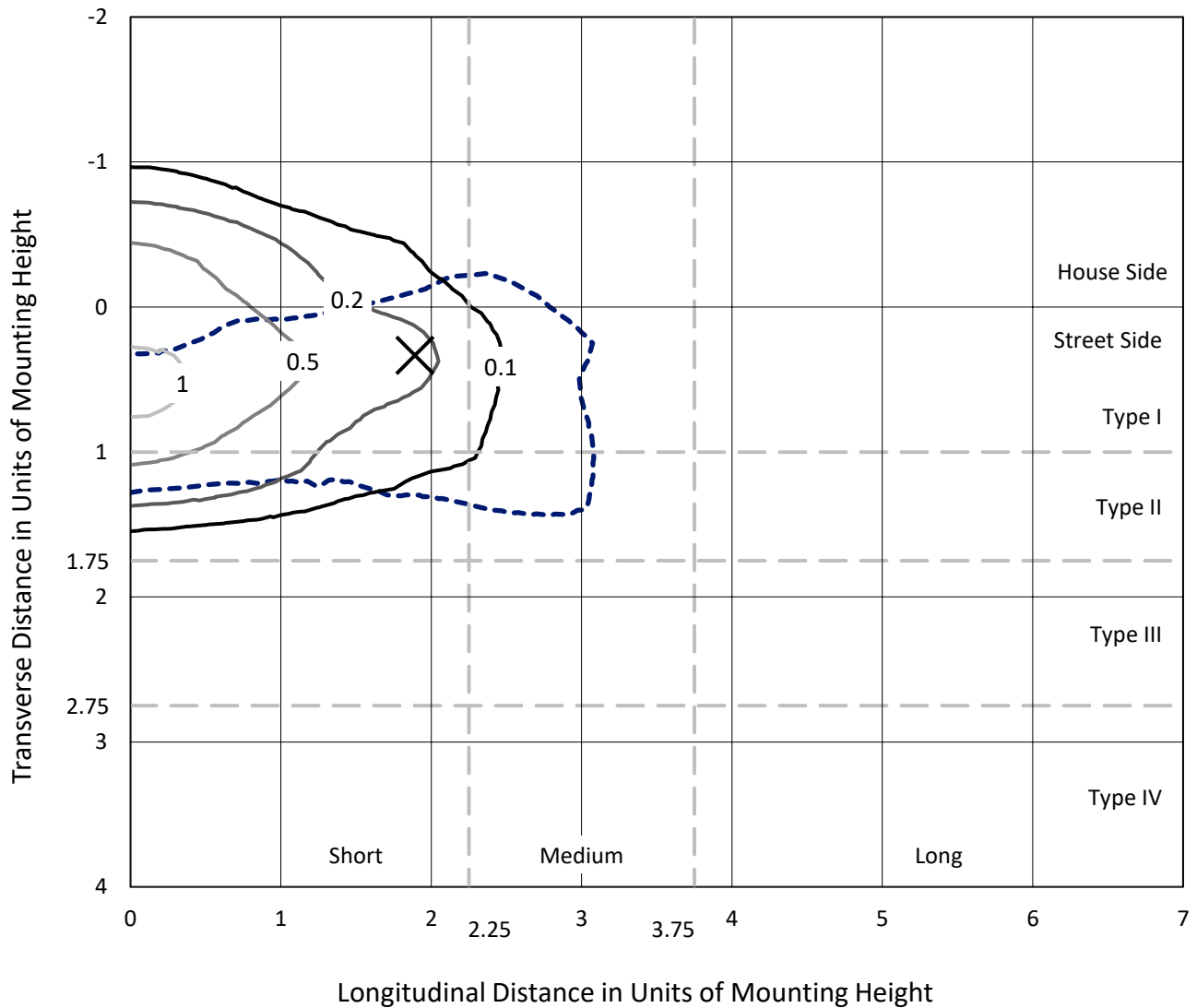
Input Watts (W): 58.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

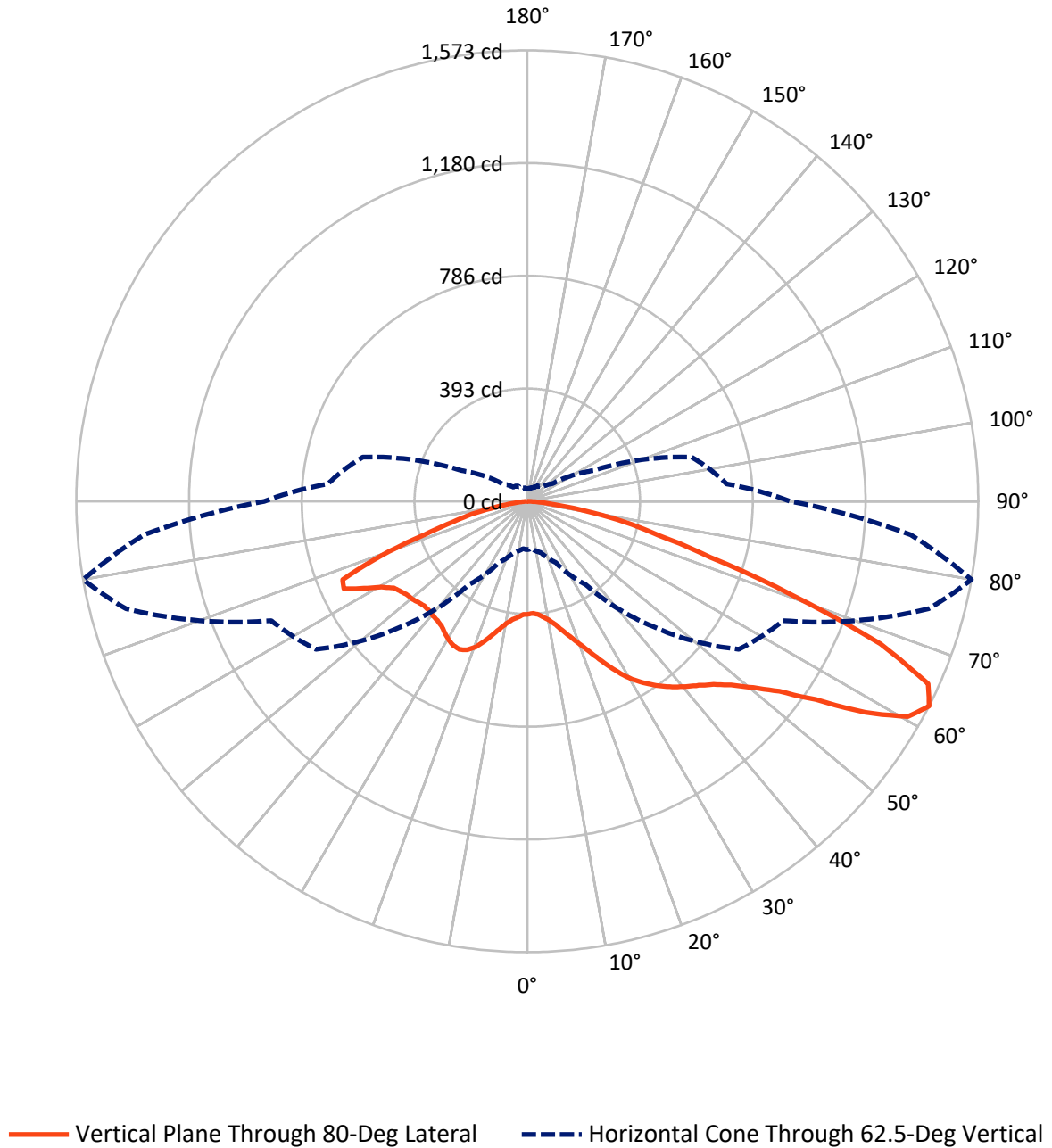
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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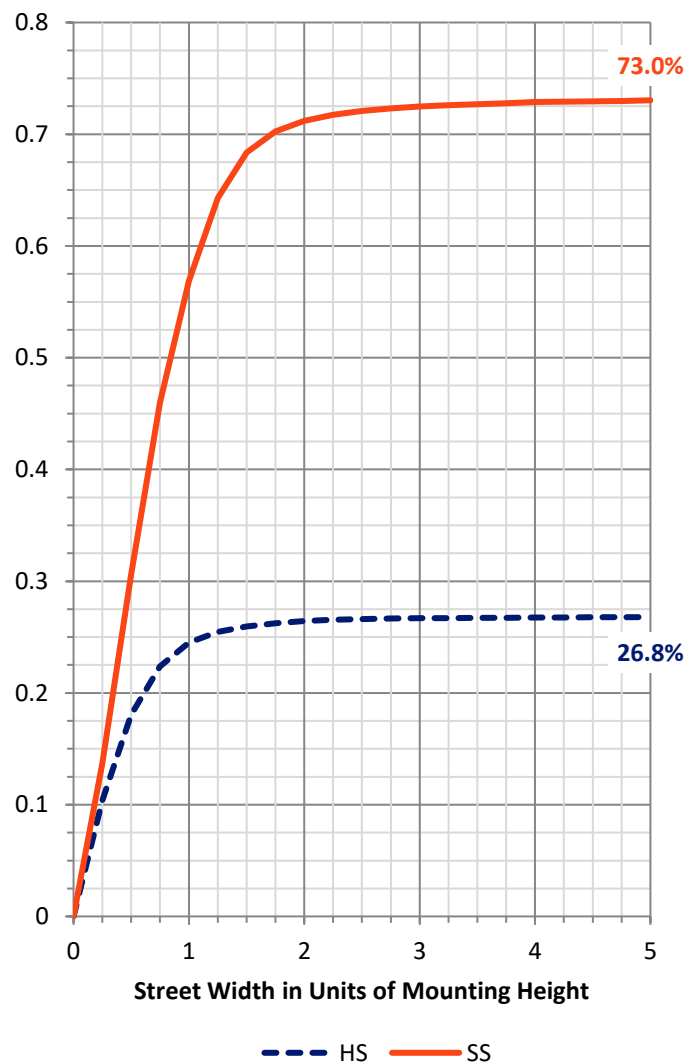
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.6	0.0	686.6
	% Fixture	27.0	0.0	27.0
Street Side	Lumens	1859.4	0.0	1859.4
	% Fixture	73.0	0.0	73.0
Total	Lumens	2546.0	0.0	2546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.6
10°-20°	154.8	6.1
20°-30°	295.1	11.6
30°-40°	434.5	17.1
40°-50°	518.3	20.4
50°-60°	489.8	19.2
60°-70°	414.4	16.3
70°-80°	177.2	7.0
80°-90°	20.9	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°	2546.0	100.0
0°-180°	2546.0	100.0

Coefficient of Utilization



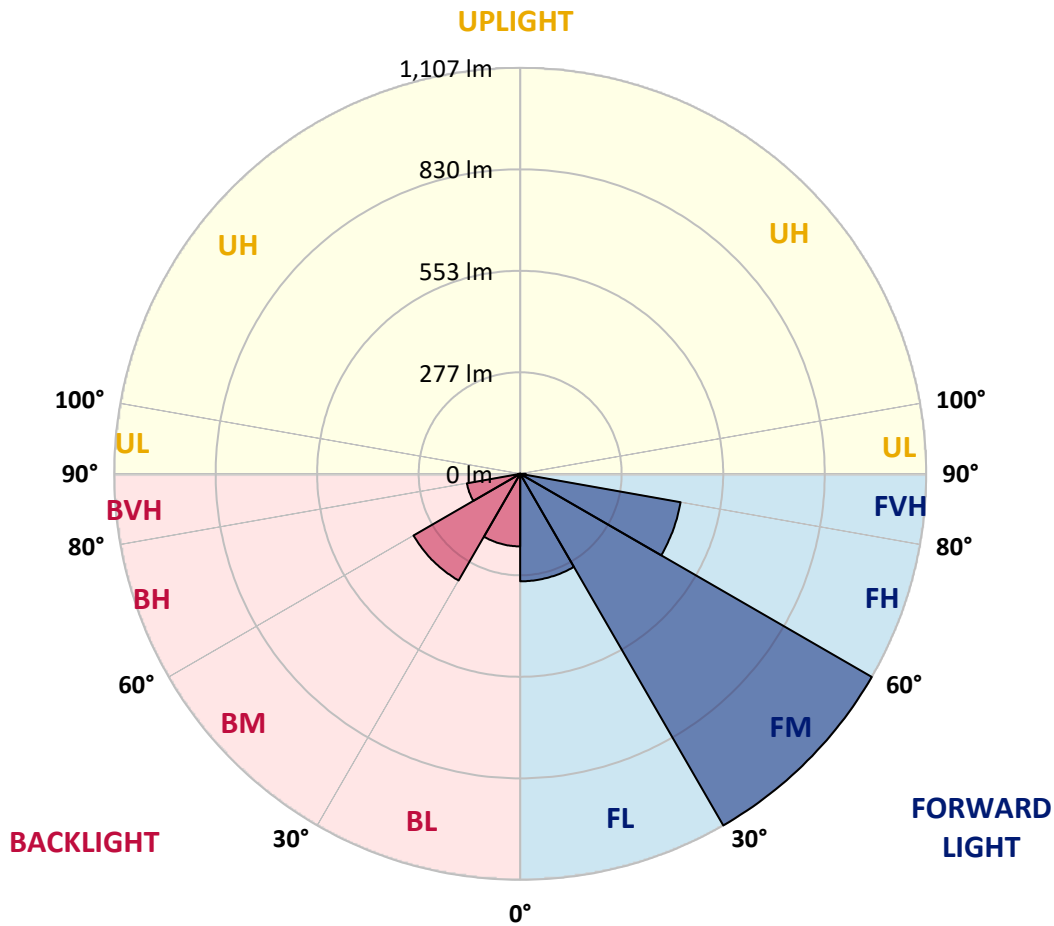
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.0	11.5			
FM (30°-60°)	1106.9	43.5			
FH (60°-80°)	444.1	17.4			G0/660
FVH (80°-90°)	15.3	0.6			G1/100
BL (0°-30°)	197.9	7.8	B1/500		
BM (30°-60°)	335.7	13.2	B1/1000		
BH (60°-80°)	147.4	5.8	B1/500		G1/500
BVH (80°-90°)	5.6	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°	75°	80°	85°
0°	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9
2.5°	393.9	393.9	393.9	393.9	393.9	391.1	391.1	391.1	391.1	391.1	393.9
5°	416.4	416.4	416.4	413.6	408.0	402.4	399.5	396.7	396.7	396.7	399.5
7.5°	458.6	458.6	458.6	447.4	438.9	427.7	419.2	413.6	408.0	408.0	408.0
10°	531.8	529.0	523.4	500.8	486.8	461.5	447.4	433.3	424.9	422.1	422.1
12.5°	616.2	619.0	607.8	576.8	551.5	514.9	486.8	461.5	447.4	441.8	441.8
15°	700.6	700.6	695.0	658.4	630.3	582.4	540.2	503.7	478.3	469.9	469.9
17.5°	762.5	765.3	756.9	734.4	709.1	655.6	602.1	548.7	512.1	500.8	500.8
20°	824.4	824.4	816.0	785.0	765.3	728.8	666.9	596.5	548.7	534.6	531.8
22.5°	892.0	894.8	877.9	841.3	813.2	779.4	731.6	652.8	593.7	576.8	571.2
25°	967.9	970.7	945.4	906.0	866.6	824.4	785.0	717.5	644.3	624.6	616.2
27.5°	1032.6	1027.0	1015.8	976.4	922.9	872.3	835.7	773.8	700.6	675.3	661.2
30°	1094.5	1097.4	1077.7	1035.5	982.0	925.7	875.1	830.1	751.3	720.3	692.2
32.5°	1190.2	1193.0	1159.3	1091.7	1027.0	976.4	928.5	872.3	796.3	756.9	714.7
35°	1257.7	1254.9	1238.0	1162.1	1074.8	1027.0	987.6	922.9	838.5	790.7	731.6
37.5°	1238.0	1232.4	1246.5	1207.1	1133.9	1080.5	1038.3	979.2	880.7	821.6	748.5
40°	1181.8	1170.5	1195.8	1184.6	1156.4	1139.6	1094.5	1043.9	922.9	849.7	762.5
42.5°	1117.1	1103.0	1122.7	1133.9	1119.9	1156.4	1156.4	1094.5	970.7	877.9	759.7
45°	1066.4	1052.3	1046.7	1058.0	1058.0	1108.6	1187.4	1159.3	1015.8	911.6	768.1
47.5°	1007.3	987.6	976.4	976.4	987.6	1018.6	1167.7	1229.6	1077.7	956.7	790.7
50°	917.3	894.8	897.6	906.0	931.3	931.3	1080.5	1254.9	1162.1	1021.4	830.1
52.5°	734.4	711.9	754.1	832.9	894.8	875.1	959.5	1224.0	1280.2	1100.2	889.1
55°	517.7	503.7	551.5	678.1	832.9	849.7	863.8	1153.6	1378.7	1221.2	956.7
57.5°	348.9	340.5	385.5	495.2	700.6	849.7	824.4	1052.3	1418.1	1390.0	1063.6
60°	233.5	230.7	261.7	343.3	509.3	796.3	841.3	979.2	1423.7	1525.0	1204.3
62.5°	168.8	166.0	185.7	236.4	354.5	616.2	900.4	984.8	1449.1	1572.9	1342.1
65°	126.6	126.6	135.1	171.6	236.4	419.2	872.3	1086.1	1449.1	1536.3	1387.2
67.5°	101.3	101.3	106.9	129.4	174.5	270.1	655.6	1260.6	1319.6	1328.1	1204.3
70°	84.4	84.4	87.2	101.3	129.4	182.9	408.0	1207.1	1029.8	979.2	959.5
72.5°	61.9	61.9	70.3	81.6	101.3	132.2	239.2	889.1	759.7	666.9	737.2
75°	45.0	45.0	50.6	64.7	78.8	92.9	143.5	531.8	590.9	472.7	590.9
77.5°	31.0	31.0	36.6	47.8	53.5	64.7	87.2	275.7	534.6	348.9	424.9
80°	22.5	19.7	22.5	31.0	36.6	39.4	50.6	123.8	346.1	208.2	216.7
82.5°	11.3	11.3	11.3	16.9	19.7	22.5	28.1	53.5	140.7	101.3	95.7
85°	2.8	2.8	2.8	5.6	8.4	11.3	14.1	22.5	42.2	42.2	45.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.6	5.6	5.6	5.6
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°	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9
2.5°	393.9	393.9	396.7	399.5	402.4	405.2	405.2	408.0	410.8	410.8	408.0
5°	399.5	402.4	408.0	410.8	419.2	422.1	424.9	427.7	430.5	433.3	433.3
7.5°	410.8	410.8	419.2	427.7	436.1	441.8	447.4	450.2	450.2	450.2	450.2
10°	424.9	424.9	436.1	444.6	455.8	464.3	467.1	469.9	467.1	469.9	467.1
12.5°	444.6	447.4	458.6	469.9	484.0	489.6	489.6	489.6	486.8	486.8	486.8
15°	469.9	472.7	486.8	500.8	514.9	514.9	509.3	503.7	503.7	500.8	500.8
17.5°	500.8	503.7	517.7	529.0	531.8	526.2	517.7	506.5	495.2	495.2	492.4
20°	531.8	534.6	543.0	537.4	531.8	517.7	500.8	484.0	478.3	475.5	472.7
22.5°	568.4	562.7	554.3	529.0	514.9	492.4	469.9	441.8	430.5	430.5	427.7
25°	605.0	588.1	548.7	512.1	492.4	461.5	424.9	396.7	388.3	385.5	382.7
27.5°	633.1	599.3	531.8	489.6	467.1	424.9	382.7	354.5	343.3	343.3	343.3
30°	650.0	599.3	512.1	472.7	444.6	391.1	348.9	318.0	303.9	301.1	301.1
32.5°	652.8	590.9	492.4	455.8	427.7	365.8	315.1	284.2	270.1	267.3	264.5
35°	652.8	576.8	478.3	447.4	405.2	340.5	289.8	256.0	244.8	239.2	239.2
37.5°	655.6	568.4	472.7	438.9	382.7	315.1	267.3	239.2	225.1	219.5	219.5
40°	658.4	565.6	469.9	430.5	363.0	295.4	250.4	219.5	202.6	197.0	197.0
42.5°	641.5	554.3	469.9	422.1	337.6	270.1	227.9	197.0	185.7	180.1	177.3
45°	633.1	551.5	472.7	410.8	315.1	242.0	199.8	174.5	163.2	160.4	157.6
47.5°	644.3	557.1	478.3	399.5	278.6	208.2	171.6	146.3	135.1	132.2	129.4
50°	666.9	568.4	484.0	382.7	242.0	177.3	143.5	118.2	104.1	101.3	98.5
52.5°	697.8	576.8	484.0	357.3	208.2	149.1	118.2	92.9	84.4	81.6	81.6
55°	737.2	593.7	489.6	329.2	180.1	126.6	95.7	78.8	73.2	73.2	73.2
57.5°	790.7	610.6	498.0	298.3	160.4	101.3	78.8	70.3	64.7	64.7	64.7
60°	852.6	644.3	534.6	278.6	135.1	81.6	70.3	61.9	56.3	56.3	56.3
62.5°	917.3	697.8	593.7	253.2	106.9	70.3	64.7	53.5	47.8	45.0	45.0
65°	965.1	762.5	655.6	219.5	78.8	61.9	56.3	42.2	33.8	33.8	33.8
67.5°	922.9	773.8	624.6	168.8	61.9	53.5	45.0	33.8	25.3	22.5	22.5
70°	787.8	683.7	413.6	104.1	50.6	42.2	33.8	22.5	14.1	11.3	11.3
72.5°	610.6	540.2	213.8	61.9	39.4	31.0	22.5	14.1	8.4	8.4	8.4
75°	526.2	422.1	115.4	42.2	28.1	19.7	16.9	11.3	5.6	5.6	5.6
77.5°	447.4	326.4	67.5	28.1	16.9	14.1	11.3	8.4	2.8	2.8	2.8
80°	264.5	185.7	39.4	19.7	11.3	8.4	5.6	5.6	2.8	0.0	0.0
82.5°	115.4	81.6	22.5	11.3	5.6	2.8	2.8	2.8	2.8	0.0	0.0
85°	47.8	36.6	14.1	5.6	2.8	2.8	2.8	0.0	0.0	0.0	0.0
87.5°	5.6	5.6	2.8	2.8	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)