

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: P237184

Luminaire Tested: **ARCH-L-AF72-110-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T3-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10869.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

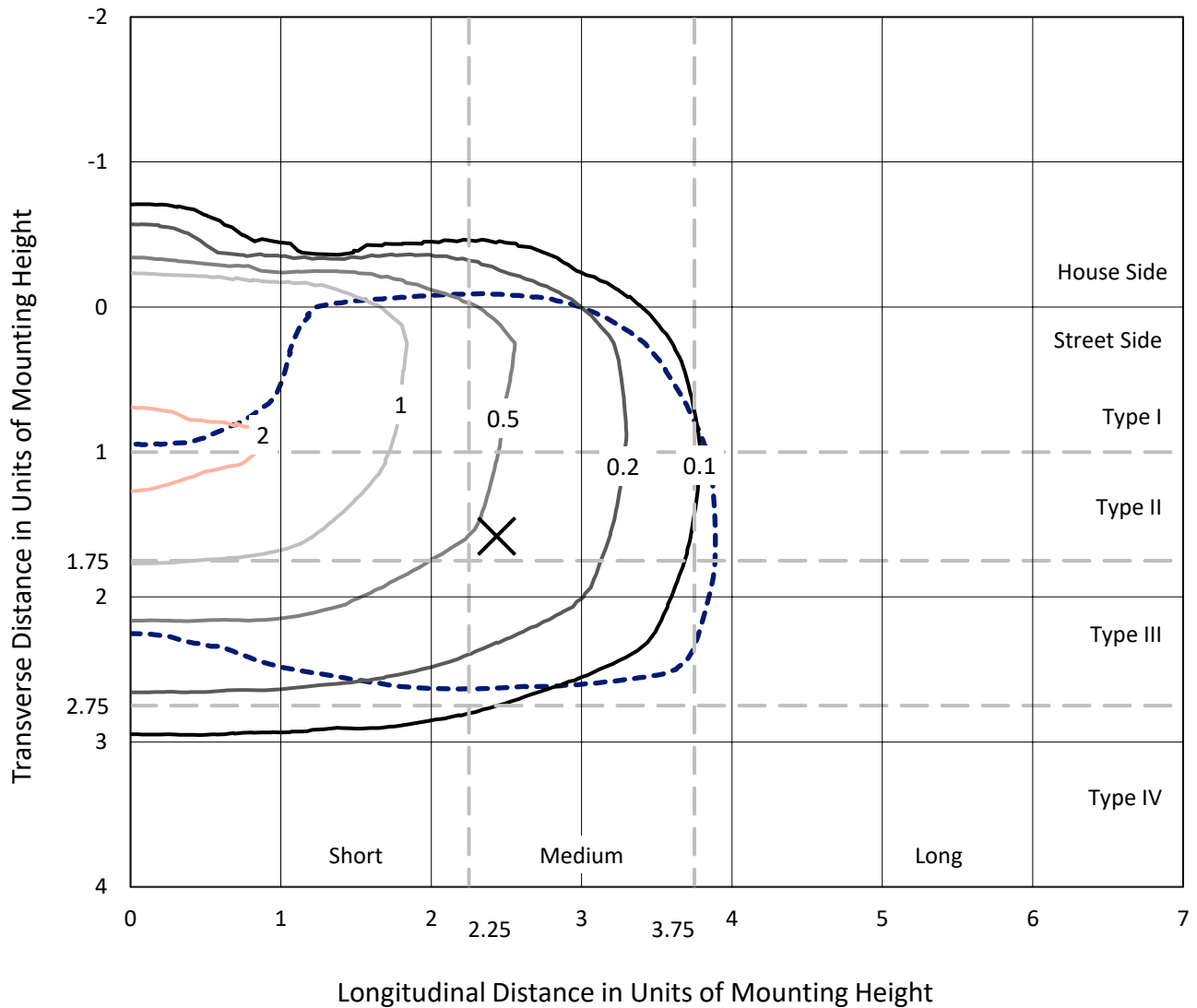
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237184
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

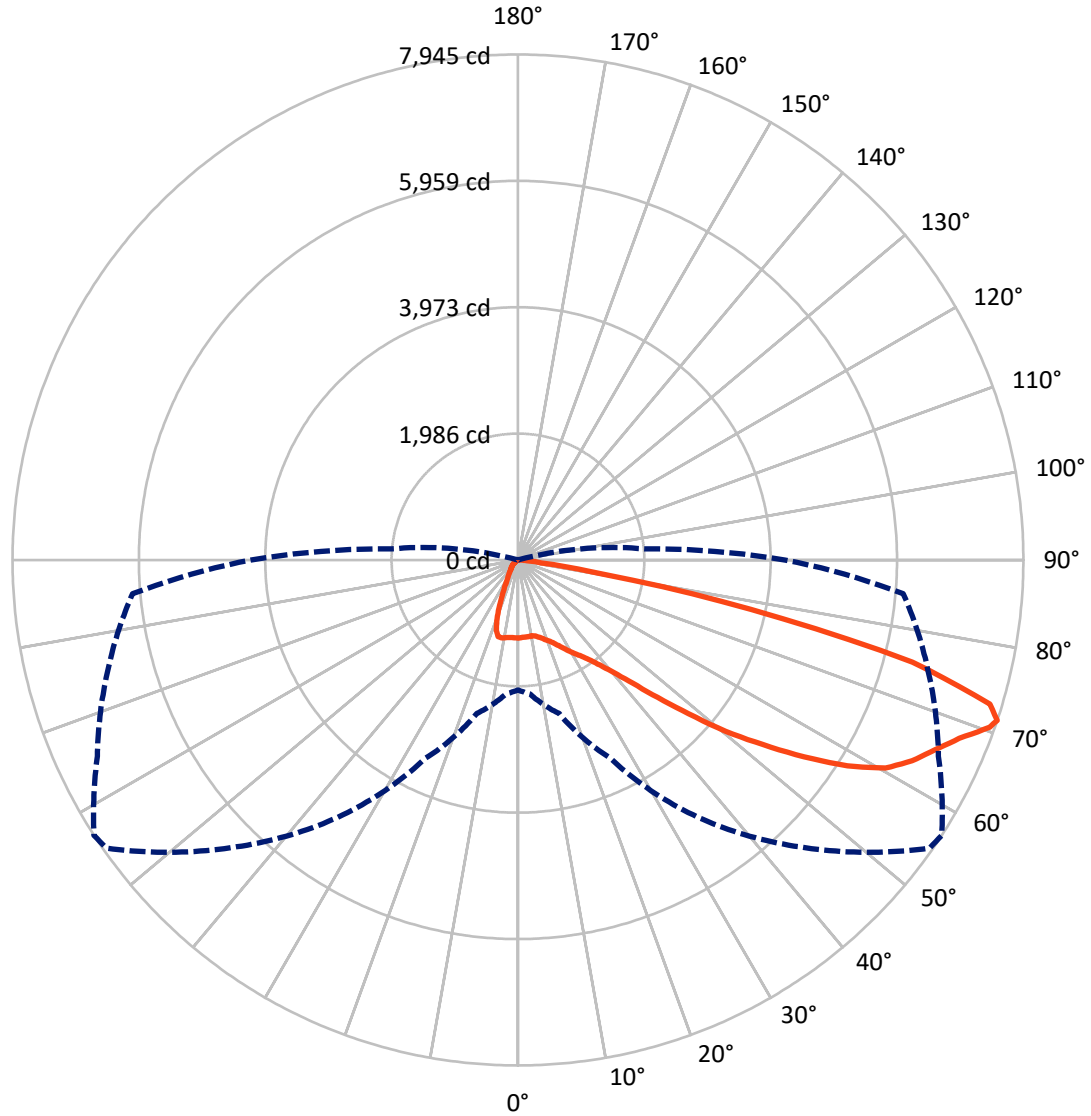
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P237184
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P237184
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7030-HSS

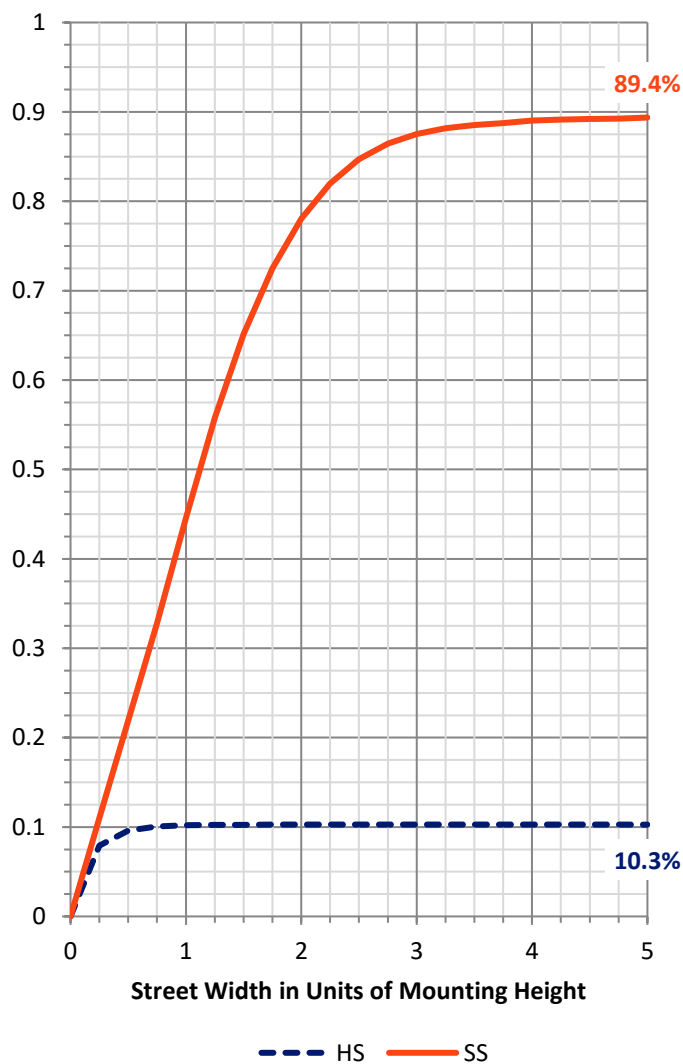
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.4	0.0	1126.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9742.7	0.0	9742.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	10869.1	0.0	10869.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	1.1
10°-20°	308.4	2.8
20°-30°	481.2	4.4
30°-40°	813.3	7.5
40°-50°	1579.6	14.5
50°-60°	2652.6	24.4
60°-70°	3165.6	29.1
70°-80°	1668.3	15.3
80°-90°	84.8	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°	10869.1	100.0
0°-180°	10869.1	100.0

Coefficient of Utilization



REPORT NUMBER: P237184

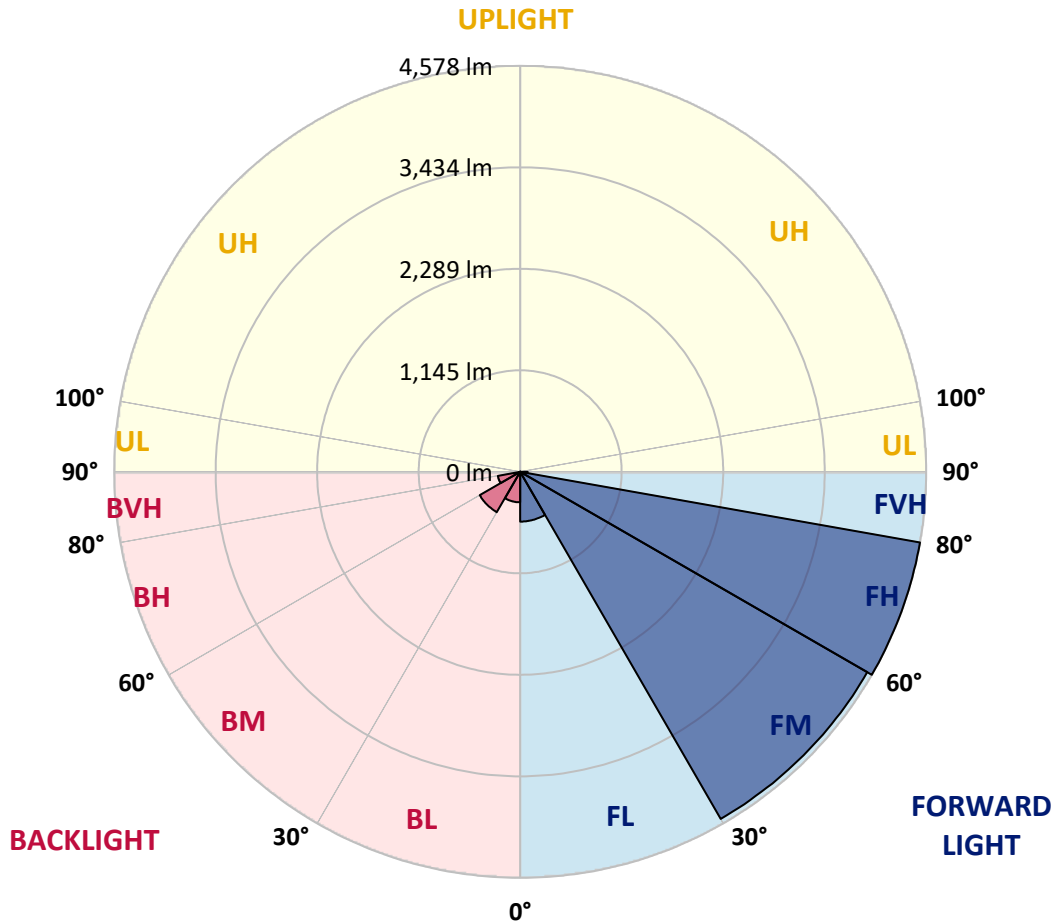
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.2	5.2			
FM (30°-60°)	4519.5	41.6			
FH (60°-80°)	4578.1	42.1			G2/5000
FVH (80°-90°)	84.0	0.8			G1/100
BL (0°-30°)	343.8	3.2	B1/500		
BM (30°-60°)	525.9	4.8	B1/1000		
BH (60°-80°)	255.8	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P237184

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1210.6	1210.6	1210.6	1213.3	1215.7	1215.7	1220.8	1218.2	1218.2	1218.2	1223.2
5°	1177.7	1180.2	1182.7	1187.8	1198.0	1205.5	1218.2	1218.2	1220.8	1225.9	1228.4
7.5°	1132.2	1134.6	1142.3	1152.3	1172.7	1190.4	1210.6	1215.7	1223.2	1235.9	1241.0
10°	1104.3	1109.3	1119.5	1132.2	1155.0	1177.7	1203.1	1210.6	1233.4	1256.3	1268.9
12.5°	1096.6	1099.2	1109.3	1129.6	1157.5	1185.4	1218.2	1225.9	1258.7	1294.1	1314.5
15°	1109.3	1111.8	1116.9	1139.7	1172.7	1208.1	1251.1	1261.3	1301.9	1342.4	1367.7
17.5°	1132.2	1132.2	1137.2	1157.5	1192.9	1233.4	1289.1	1304.3	1349.9	1395.6	1423.4
20°	1147.3	1147.3	1155.0	1175.2	1215.7	1268.9	1334.7	1355.1	1405.6	1456.3	1481.7
22.5°	1162.5	1165.0	1172.7	1195.4	1241.0	1314.5	1390.5	1410.7	1469.0	1522.2	1547.5
25°	1205.5	1203.1	1205.5	1225.9	1279.0	1370.2	1466.5	1491.8	1552.6	1610.8	1623.5
27.5°	1324.7	1319.6	1286.6	1274.0	1314.5	1428.4	1562.7	1588.0	1659.0	1717.2	1717.2
30°	1598.1	1588.0	1507.0	1403.1	1370.2	1481.7	1653.8	1689.3	1780.5	1831.1	1816.0
32.5°	1945.2	1922.3	1818.5	1641.2	1509.5	1552.6	1750.2	1790.6	1907.1	1950.2	1917.3
35°	2325.0	2322.6	2193.4	1965.3	1777.9	1699.4	1874.3	1922.3	2069.3	2107.3	2054.1
37.5°	2727.7	2737.9	2651.7	2337.7	2117.3	1940.1	2038.9	2094.6	2274.3	2320.0	2269.4
40°	3176.0	3173.6	3140.5	2768.3	2525.1	2282.0	2277.0	2327.5	2545.4	2616.3	2545.4
42.5°	3743.3	3738.3	3619.3	3285.0	3019.1	2727.7	2623.9	2641.7	2884.8	3001.3	2897.4
45°	4320.8	4285.3	4148.6	3859.9	3624.3	3279.9	3082.3	3082.3	3290.1	3449.6	3287.5
47.5°	4642.5	4607.0	4551.3	4391.7	4320.8	3935.8	3644.6	3609.2	3771.2	3933.4	3705.4
50°	5065.5	5065.5	4926.2	4865.5	4986.9	4715.9	4265.2	4229.7	4308.2	4437.3	4138.5
52.5°	5399.8	5339.0	5240.2	5293.4	5640.4	5516.3	4885.6	4817.2	4878.0	4910.9	4515.9
55°	5539.1	5480.9	5473.3	5668.3	6205.2	6033.0	5521.3	5460.6	5455.6	5293.4	4845.1
57.5°	5567.0	5516.3	5612.5	5954.4	6754.9	6455.9	6154.6	6108.9	5967.0	5561.9	5181.9
60°	5331.5	5356.8	5589.7	6111.5	7079.0	6823.1	6689.0	6640.8	6314.1	5789.8	5556.8
62.5°	4847.7	4908.5	5344.1	6126.7	6960.0	6972.6	6985.3	6952.3	6582.6	5997.5	5934.2
65°	4275.2	4293.1	4817.2	5916.5	6752.2	6927.0	7203.1	7200.5	6787.7	6230.5	6359.7
67.5°	3523.1	3553.4	4006.7	5207.3	6336.9	6906.8	7489.2	7481.6	7020.8	6496.4	6612.9
70°	2621.3	2659.4	3026.6	4049.8	5409.9	6653.5	7864.2	7869.2	7266.4	6699.1	6438.2
71°	2043.9	2112.3	2497.2	3439.5	4936.4	6397.6	7899.6	7945.3	7294.2	6671.3	6078.5
72.5°	1003.0	1084.0	1567.8	2421.3	4062.5	5825.2	7666.6	7755.2	7119.6	6324.3	5197.1
75°	260.9	276.1	468.5	990.3	2178.2	3859.9	6182.4	6407.8	5820.2	4814.7	3176.0
77.5°	164.7	169.7	220.3	385.0	815.5	1466.5	3631.9	3743.3	3325.6	2439.0	1119.5
80°	116.5	119.1	139.3	248.2	476.2	428.1	1306.8	1355.1	1203.1	645.8	200.1
82.5°	70.9	70.9	101.3	159.5	293.8	233.0	344.5	367.2	324.2	179.8	65.9
85°	40.5	43.0	63.4	108.9	139.3	113.9	129.2	136.8	139.3	119.1	27.9
87.5°	32.9	35.5	55.7	91.2	75.9	55.7	55.7	58.2	60.7	70.9	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P237184

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1223.2	1223.2	1225.9	1223.2	1223.2	1223.2	1225.9	1225.9	1225.9	1231.0	1233.4
5°	1228.4	1228.4	1228.4	1225.9	1223.2	1223.2	1228.4	1231.0	1231.0	1238.5	1238.5
7.5°	1241.0	1241.0	1235.9	1231.0	1225.9	1218.2	1220.8	1223.2	1220.8	1223.2	1223.2
10°	1268.9	1268.9	1261.3	1251.1	1235.9	1213.3	1182.7	1144.8	1109.3	1096.6	1091.6
12.5°	1314.5	1311.9	1296.8	1279.0	1246.1	1167.6	1053.6	919.4	808.0	777.6	767.4
15°	1365.2	1360.1	1342.4	1311.9	1223.2	1015.7	777.6	605.3	499.0	473.6	468.5
17.5°	1418.3	1410.7	1385.4	1324.7	1119.5	754.8	501.5	379.9	321.7	316.7	319.1
20°	1474.0	1464.0	1428.4	1299.3	904.2	504.0	324.2	293.8	288.8	288.8	291.2
22.5°	1537.4	1524.7	1476.5	1208.1	658.5	334.4	278.6	276.1	273.5	271.0	271.0
25°	1610.8	1595.6	1522.2	1043.5	453.3	273.5	265.9	258.3	253.3	248.2	245.8
27.5°	1699.4	1679.2	1557.6	840.9	311.5	255.7	250.7	238.0	228.0	217.9	217.9
30°	1788.1	1762.8	1547.5	633.1	253.3	238.0	228.0	212.7	197.5	187.4	184.8
32.5°	1881.8	1856.6	1481.7	425.4	230.4	217.9	205.2	182.4	164.7	152.0	149.4
35°	2021.1	2000.9	1352.5	281.2	207.7	192.6	174.7	152.0	129.2	116.5	113.9
37.5°	2228.8	2203.4	1192.9	215.2	182.4	159.5	144.3	119.1	96.2	83.6	81.1
40°	2507.4	2431.4	1003.0	190.0	159.5	131.6	111.5	86.1	68.4	60.7	60.7
42.5°	2831.6	2651.7	797.8	172.2	141.8	108.9	81.1	58.2	48.1	45.6	45.6
45°	3176.0	2856.9	592.6	159.5	124.1	86.1	58.2	40.5	35.5	32.9	32.9
47.5°	3530.6	3024.1	412.8	144.3	103.8	65.9	40.5	30.4	25.3	22.8	22.8
50°	3862.5	3133.0	291.2	129.2	88.6	48.1	30.4	22.8	17.7	17.7	17.7
52.5°	4092.9	3122.8	210.3	111.5	68.4	32.9	20.2	15.2	15.2	15.2	15.2
55°	4295.5	3084.8	164.7	96.2	53.2	22.8	15.2	12.7	12.7	10.2	10.2
57.5°	4467.7	3024.1	139.3	78.5	38.0	17.7	10.2	10.2	7.6	7.6	7.6
60°	4614.7	2948.2	116.5	65.9	25.3	12.7	7.6	5.0	5.0	2.5	5.0
62.5°	4814.7	2900.0	101.3	50.7	17.7	7.6	5.0	2.5	2.5	0.0	0.0
65°	4961.6	2808.8	86.1	35.5	10.2	5.0	2.5	2.5	0.0	0.0	0.0
67.5°	4966.7	2644.2	63.4	20.2	7.6	5.0	2.5	0.0	0.0	0.0	0.0
70°	4566.5	2254.1	40.5	10.2	5.0	2.5	2.5	0.0	0.0	0.0	0.0
71°	4199.3	1995.8	32.9	7.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	3459.7	1466.5	25.3	7.6	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1907.1	531.9	12.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	610.4	162.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	103.8	25.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.5	10.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	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)