

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: P258047

Luminaire Tested: **ARCH-L-AF72-110-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10284.6 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

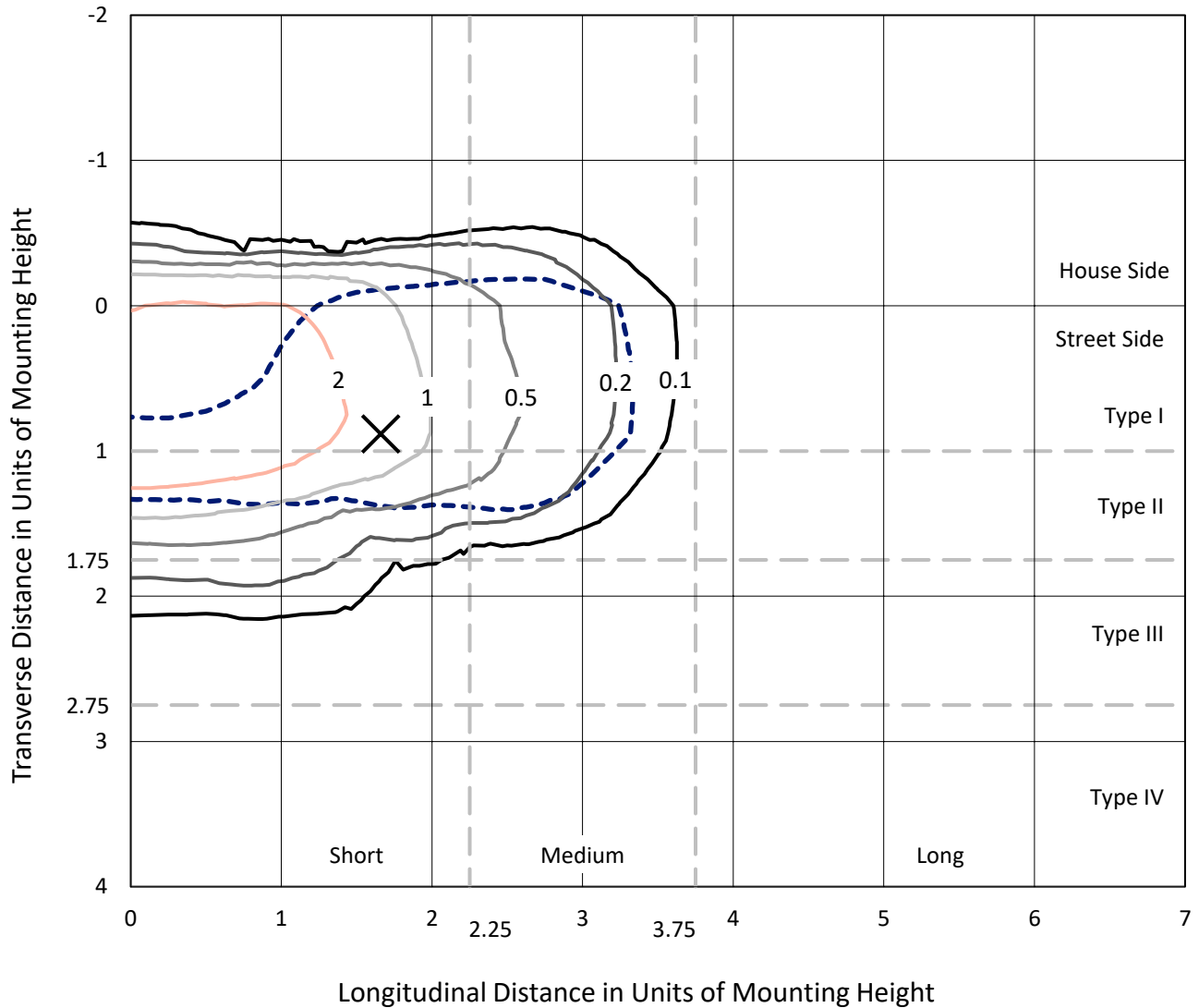
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P258047
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

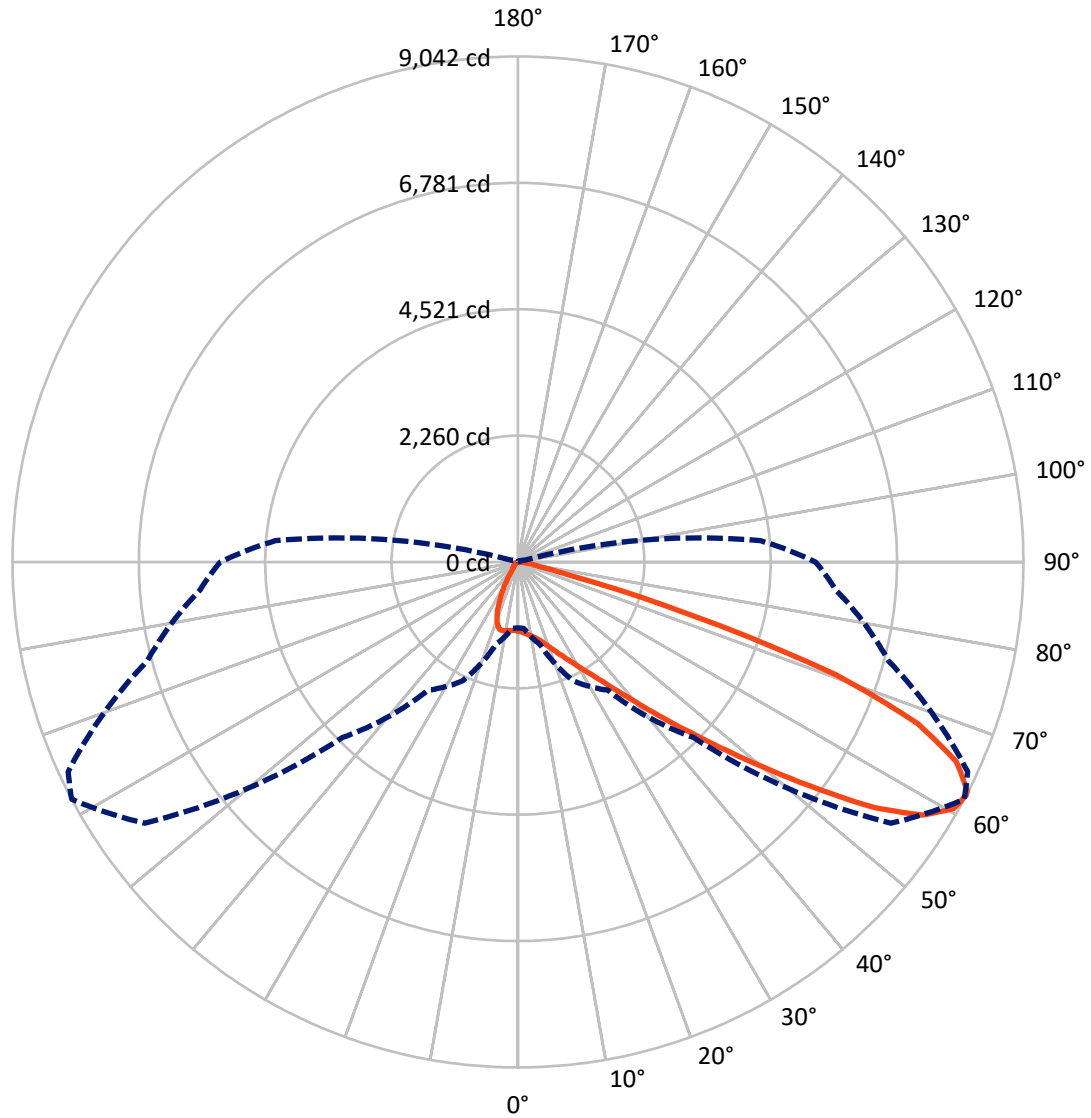
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

REPORT NUMBER: P258047
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P258047
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030-HSS

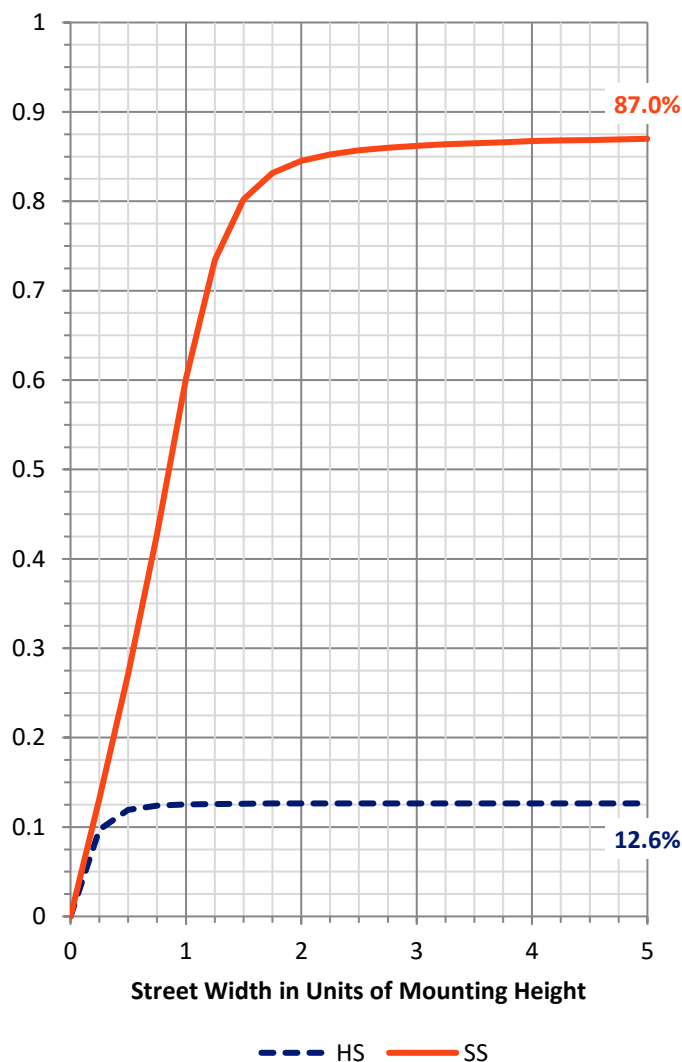
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.0	0.0	1315.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8969.6	0.0	8969.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	10284.6	0.0	10284.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.2
10°-20°	332.9	3.2
20°-30°	559.2	5.4
30°-40°	1071.9	10.4
40°-50°	2189.3	21.3
50°-60°	2897.2	28.2
60°-70°	2250.7	21.9
70°-80°	812.4	7.9
80°-90°	51.8	0.5
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°	10284.6	100.0
0°-180°	10284.6	100.0

Coefficient of Utilization



REPORT NUMBER: P258047

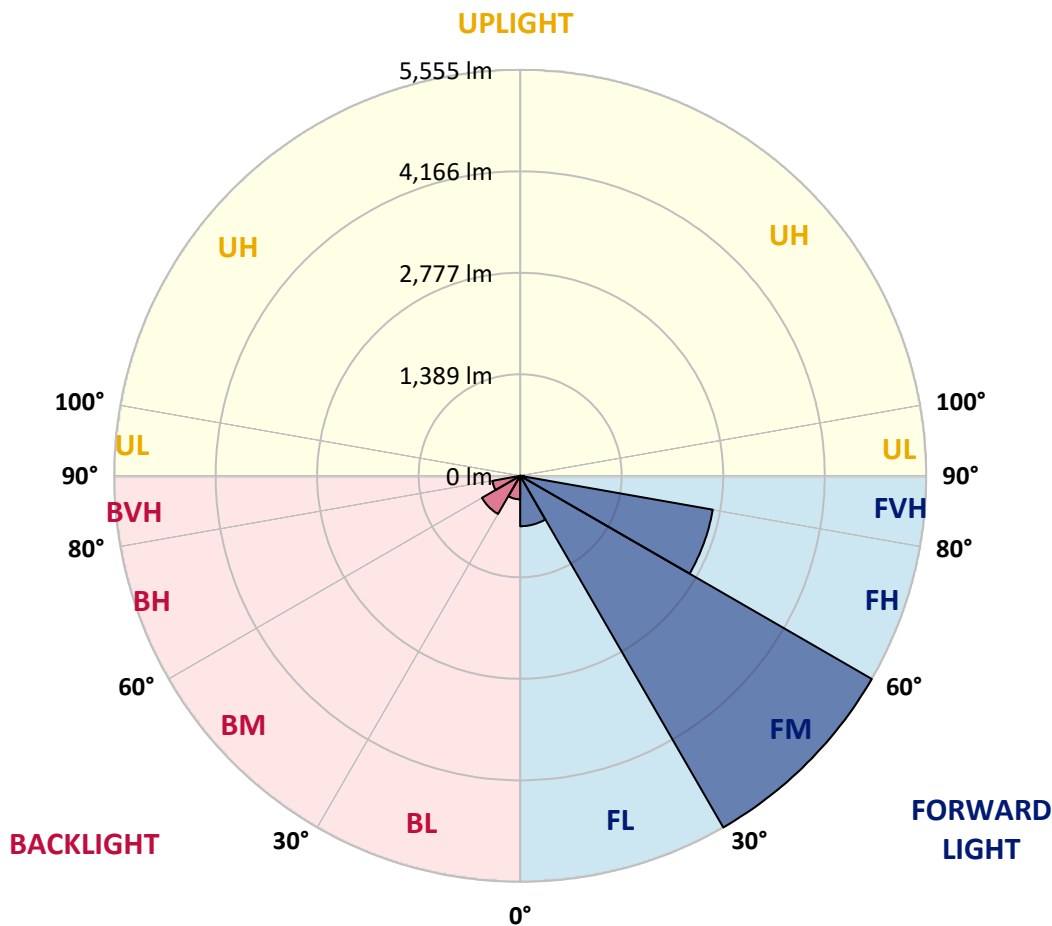
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.5	6.7			
FM (30°-60°)	5554.7	54.0			
FH (60°-80°)	2675.8	26.0			G2/5000
FVH (80°-90°)	49.5	0.5			G1/100
BL (0°-30°)	321.8	3.1	B1/500		
BM (30°-60°)	603.7	5.9	B1/1000		
BH (60°-80°)	387.2	3.8	B1/500		G1/500
BVH (80°-90°)	2.2	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 II Short





REPORT NUMBER: P258047

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9
2.5°	1271.8	1269.3	1266.8	1264.2	1264.2	1261.6	1259.1	1254.1	1249.1	1243.9	1241.4
5°	1294.5	1292.0	1289.5	1292.0	1289.5	1289.5	1287.0	1281.9	1276.8	1269.3	1261.6
7.5°	1312.2	1309.7	1307.2	1309.7	1312.2	1314.7	1317.3	1312.2	1309.7	1299.6	1292.0
10°	1335.0	1332.4	1329.9	1335.0	1335.0	1347.6	1350.1	1347.6	1345.1	1337.6	1324.9
12.5°	1367.8	1370.4	1370.4	1375.5	1380.5	1395.7	1400.7	1393.2	1393.2	1383.0	1367.8
15°	1428.6	1428.6	1428.6	1433.6	1436.1	1456.3	1461.5	1453.8	1458.8	1441.1	1426.1
17.5°	1486.7	1489.2	1494.2	1504.4	1504.4	1522.1	1532.3	1532.3	1542.3	1519.6	1499.4
20°	1544.8	1547.3	1555.0	1577.7	1577.7	1600.4	1618.1	1625.8	1635.8	1613.1	1577.7
22.5°	1608.1	1608.1	1620.8	1656.1	1648.5	1694.1	1726.9	1739.5	1749.7	1719.3	1663.7
25°	1704.1	1694.1	1704.1	1737.0	1732.0	1795.1	1855.9	1868.5	1881.1	1845.7	1762.3
27.5°	1886.2	1870.9	1835.7	1838.2	1838.2	1911.5	1997.5	2015.2	2022.7	1992.4	1888.6
30°	2250.3	2250.3	2118.7	2030.2	1972.1	2037.9	2159.3	2189.5	2199.7	2154.1	2017.7
32.5°	2884.9	2884.9	2642.2	2417.2	2197.2	2197.2	2336.2	2391.9	2401.9	2348.8	2189.5
35°	3693.9	3688.9	3324.9	3016.3	2586.5	2424.7	2543.5	2637.1	2667.4	2596.6	2412.1
37.5°	4553.6	4520.7	4128.9	3774.9	3185.8	2788.9	2824.3	2948.2	2975.9	2917.8	2700.4
40°	5251.4	5213.6	4897.4	4601.7	3959.4	3370.3	3228.7	3342.6	3375.3	3294.5	3044.2
42.5°	5883.6	5789.9	5572.6	5360.2	4849.5	4376.6	3767.3	3812.8	3848.2	3762.3	3431.1
45°	6341.2	6197.0	6085.8	6020.0	5749.6	5481.5	4465.1	4374.0	4386.8	4280.6	3853.2
47.5°	6353.9	6252.7	6262.8	6434.8	6546.0	6535.9	5372.9	5049.2	5001.2	4824.2	4303.2
50°	5747.0	5805.2	5989.7	6480.2	7081.9	7446.1	6452.5	5848.2	5704.1	5385.5	4750.8
52.5°	4735.7	4826.7	5173.1	5999.9	7160.5	8045.3	7572.5	6761.0	6503.0	5941.7	5094.8
55°	3709.2	3714.2	4078.3	4920.3	6637.1	8154.0	8467.6	7764.7	7370.3	6364.0	5322.2
57.5°	2551.1	2690.2	3152.9	3719.3	5456.3	7612.9	8803.9	8543.4	8035.3	6624.4	5481.5
60°	1671.2	1678.9	2217.4	2872.2	3714.2	6194.6	8599.0	8955.6	8573.8	6778.7	5590.2
62°	1178.3	1190.9	1524.6	2346.4	2798.9	4439.9	8146.5	9041.5	8877.2	6869.6	5704.1
62.5°	1092.3	1102.4	1383.0	2214.9	2629.6	3982.2	7984.6	9021.3	8922.6	6899.9	5744.6
65°	801.5	801.5	905.2	1522.1	1926.7	2151.7	6766.0	8619.3	8862.0	7142.8	5896.1
67.5°	619.5	624.5	659.9	938.0	1453.8	1304.7	4318.5	7714.1	8230.0	7501.7	5982.2
70°	533.5	531.0	556.2	622.0	1049.3	867.2	1901.3	6020.0	6892.4	7410.7	5903.9
72.5°	394.4	396.9	455.1	546.1	730.7	563.8	859.7	3195.9	4470.3	5800.1	5059.4
75°	252.8	255.3	321.1	429.8	525.9	369.2	495.6	953.2	1830.5	3216.1	3094.8
77.5°	169.4	174.5	209.9	300.9	460.2	230.1	311.0	399.5	551.2	1206.0	1110.0
80°	113.7	113.7	134.0	202.2	290.7	192.2	166.8	265.5	285.7	374.2	187.1
82.5°	75.8	75.8	88.5	134.0	189.7	172.0	101.2	144.1	166.8	187.1	65.8
85°	45.6	45.6	60.6	83.5	123.9	96.0	65.8	81.0	86.0	118.9	35.4
87.5°	27.9	25.2	40.4	58.1	65.8	58.1	42.9	42.9	45.6	65.8	17.7
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: P258047

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9
2.5°	1236.4	1233.9	1231.4	1226.2	1218.7	1213.7	1208.5	1203.5	1198.5	1198.5	1206.0
5°	1259.1	1251.6	1241.4	1231.4	1216.2	1206.0	1198.5	1188.3	1183.3	1183.3	1185.8
7.5°	1287.0	1279.3	1261.6	1243.9	1221.2	1203.5	1185.8	1163.1	1145.4	1137.8	1145.4
10°	1317.3	1307.2	1281.9	1254.1	1228.8	1183.3	1125.2	1054.4	993.6	965.9	978.5
12.5°	1355.3	1342.6	1312.2	1274.3	1216.2	1104.9	960.8	796.4	692.8	644.7	654.9
15°	1410.9	1393.2	1350.1	1292.0	1163.1	922.9	687.7	498.1	402.0	361.5	366.6
17.5°	1476.5	1453.8	1395.7	1287.0	1026.5	665.0	409.6	290.7	250.3	240.2	240.2
20°	1547.3	1517.1	1441.1	1249.1	819.2	417.2	255.3	222.5	207.4	199.7	199.7
22.5°	1620.8	1580.2	1479.2	1160.6	584.1	260.5	209.9	187.1	169.4	161.8	161.8
25°	1709.2	1656.1	1517.1	1006.3	371.7	209.9	179.5	156.8	139.1	128.9	131.4
27.5°	1812.8	1744.6	1550.0	814.1	240.2	182.0	149.1	126.4	111.2	106.2	106.2
30°	1921.6	1840.7	1557.5	609.3	194.7	156.8	123.9	103.7	93.5	88.5	88.5
32.5°	2070.8	1964.6	1534.8	404.6	164.3	131.4	103.7	86.0	78.3	75.8	75.8
35°	2268.0	2126.4	1481.7	250.3	139.1	108.7	86.0	75.8	68.3	65.8	65.8
37.5°	2518.3	2351.4	1388.1	172.0	118.9	88.5	73.3	65.8	60.6	58.1	58.1
40°	2852.0	2624.5	1266.8	149.1	101.2	75.8	63.3	58.1	53.1	53.1	53.1
42.5°	3206.0	2955.7	1110.0	131.4	86.0	65.8	55.6	50.6	48.1	45.6	45.6
45°	3592.9	3294.5	915.3	116.3	73.3	58.1	50.6	42.9	40.4	40.4	40.4
47.5°	3977.1	3643.4	702.9	101.2	63.3	50.6	42.9	37.9	35.4	32.9	32.9
50°	4371.6	3959.4	515.8	88.5	55.6	45.6	37.9	32.9	27.9	25.2	25.2
52.5°	4657.2	4149.1	376.7	75.8	48.1	37.9	30.4	25.2	20.2	17.7	17.7
55°	4867.2	4265.4	275.6	63.3	42.9	32.9	25.2	20.2	15.2	15.2	12.7
57.5°	5031.5	4320.9	207.4	55.6	37.9	27.9	20.2	15.2	12.7	10.2	10.2
60°	5157.9	4323.5	154.3	45.6	32.9	22.7	15.2	10.2	7.5	7.5	7.5
62°	5324.8	4356.3	126.4	37.9	30.4	20.2	12.7	7.5	5.0	2.5	2.5
62.5°	5372.9	4369.1	121.4	37.9	27.9	17.7	10.2	7.5	5.0	2.5	2.5
65°	5595.2	4391.7	93.5	30.4	22.7	15.2	7.5	5.0	0.0	0.0	0.0
67.5°	5797.7	4356.3	68.3	22.7	17.7	10.2	7.5	2.5	0.0	0.0	0.0
70°	5777.4	4113.7	48.1	15.2	12.7	7.5	5.0	0.0	0.0	0.0	0.0
72.5°	4761.0	3079.6	32.9	12.7	7.5	5.0	2.5	0.0	0.0	0.0	0.0
75°	2874.8	1347.6	22.7	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
77.5°	943.1	488.0	15.2	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0
80°	154.3	81.0	7.5	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0
82.5°	48.1	20.2	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	17.7	7.5	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	5.0	5.0	5.0	2.5	2.5	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)