

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: P399180

Luminaire Tested: **ARCH-L-PA3-100-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9584 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

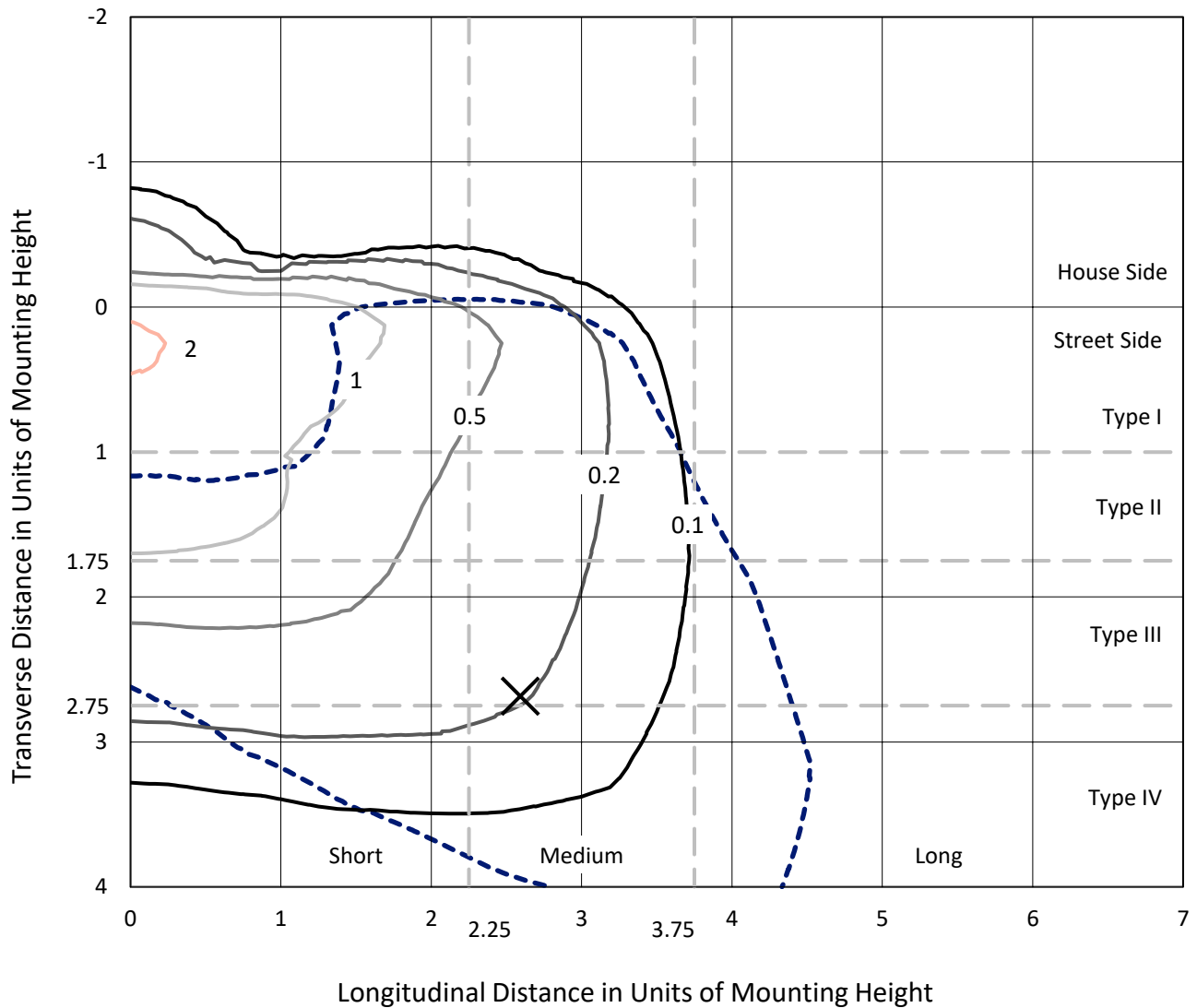
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

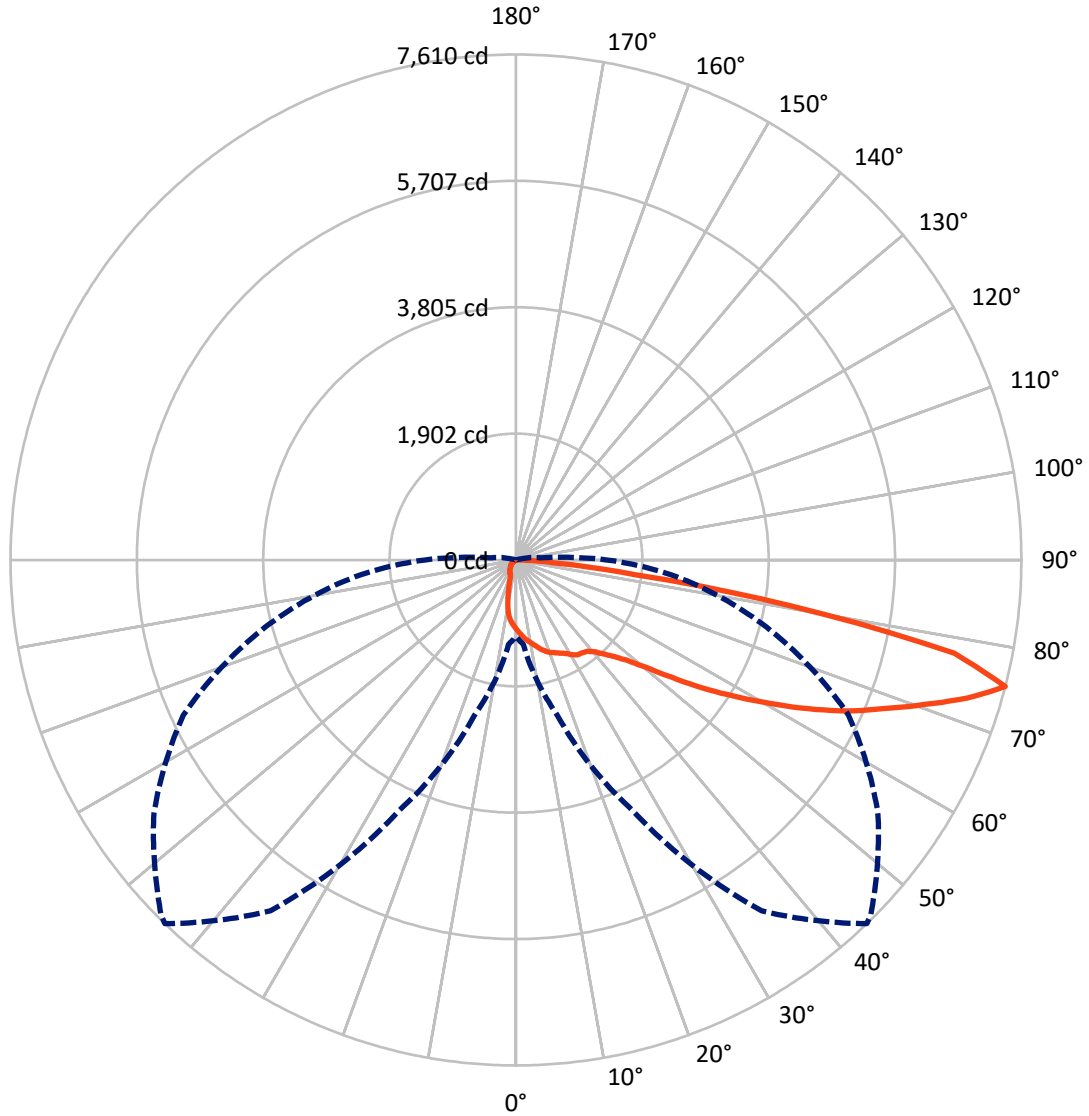
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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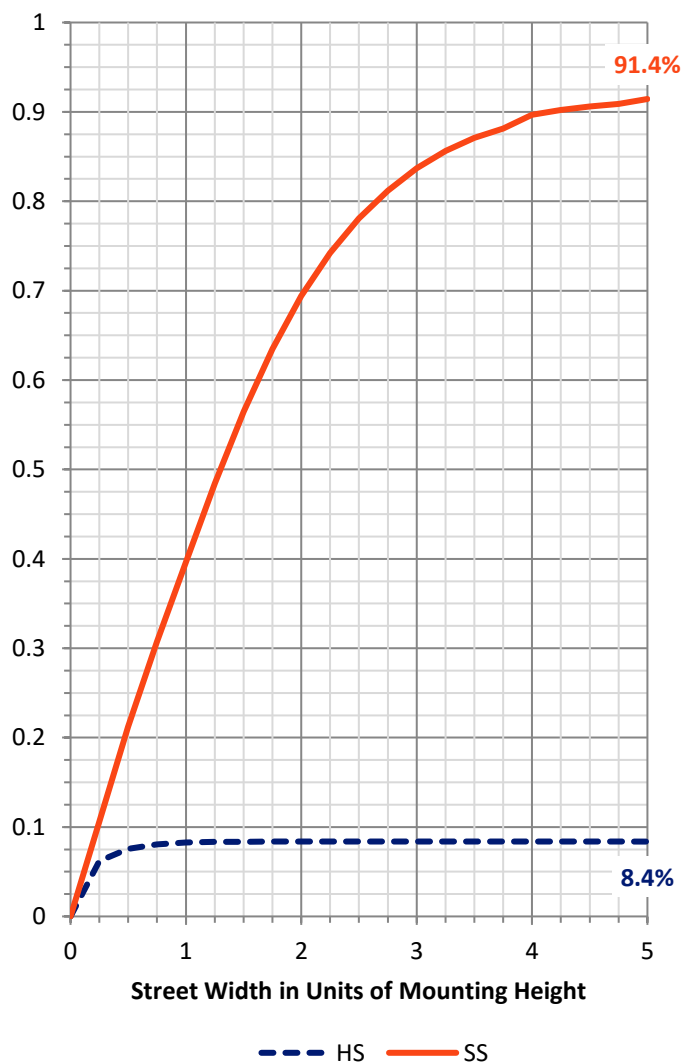
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.2	0.0	808.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8775.8	0.0	8775.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	9584.0	0.0	9584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	1.0
10°-20°	275.7	2.9
20°-30°	454.9	4.7
30°-40°	660.3	6.9
40°-50°	1073.4	11.2
50°-60°	1892.2	19.7
60°-70°	2719.5	28.4
70°-80°	2177.7	22.7
80°-90°	232.0	2.4
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°	9584.0	100.0
0°-180°	9584.0	100.0

Coefficient of Utilization



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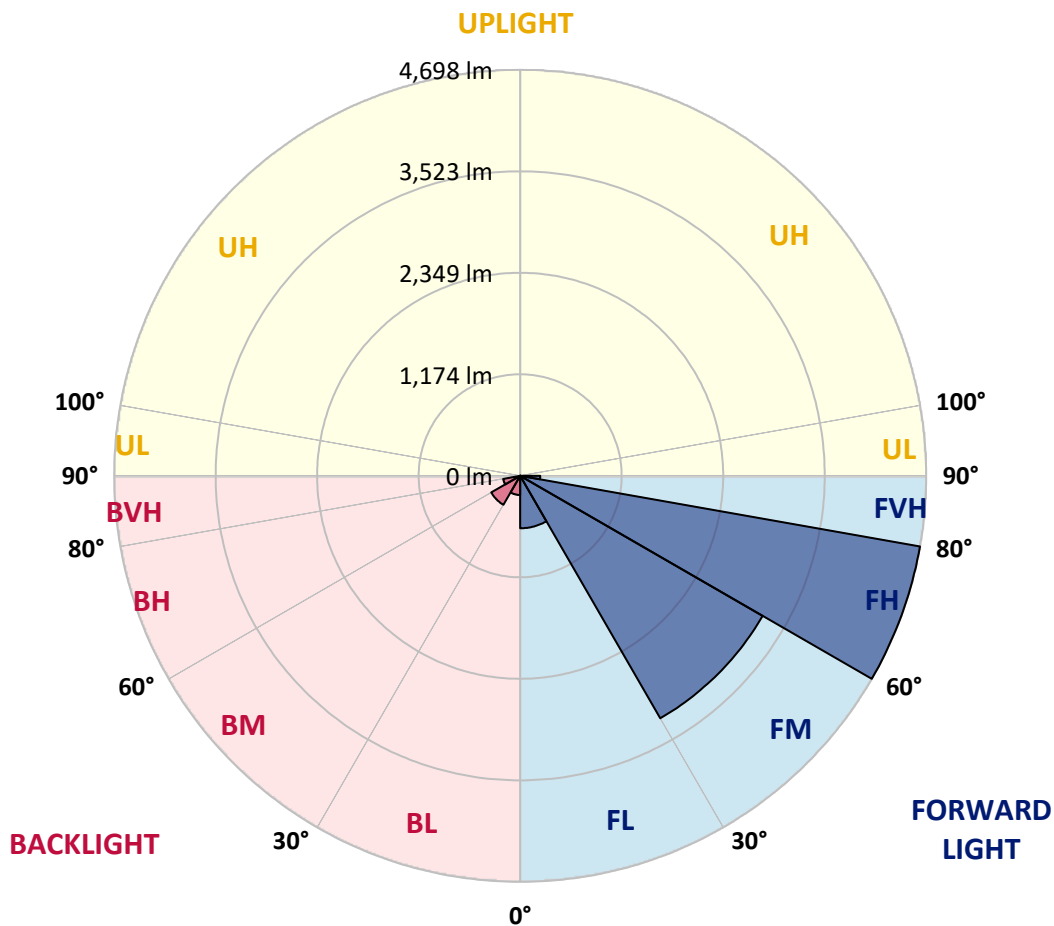
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.9	6.3			
FM (30°-60°)	3239.5	33.8			
FH (60°-80°)	4697.9	49.0			G2/5000
FVH (80°-90°)	231.4	2.4			G3/500
BL (0°-30°)	222.1	2.3	B1/500		
BM (30°-60°)	386.4	4.0	B1/1000		
BH (60°-80°)	199.2	2.1	B1/500		G1/500
BVH (80°-90°)	0.6	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2
2.5°	1136.9	1135.1	1129.8	1121.0	1112.1	1103.3	1101.5	1087.4	1071.5	1059.1	1048.5
5°	1237.7	1235.9	1227.1	1207.6	1188.2	1165.2	1163.4	1129.8	1099.8	1066.2	1037.9
7.5°	1342.0	1338.5	1322.5	1292.5	1258.9	1223.5	1220.0	1170.5	1126.3	1082.1	1041.4
10°	1423.3	1419.8	1396.8	1361.4	1315.5	1271.3	1266.0	1214.7	1170.5	1113.9	1059.1
12.5°	1502.9	1495.8	1465.8	1426.9	1370.3	1327.8	1322.5	1269.5	1216.5	1158.1	1090.9
15°	1577.1	1568.3	1540.0	1490.5	1430.4	1389.7	1386.2	1329.6	1274.8	1207.6	1133.4
17.5°	1628.4	1624.9	1591.3	1536.5	1478.1	1444.5	1441.0	1382.7	1327.8	1257.1	1177.6
20°	1654.9	1654.9	1623.1	1563.0	1510.0	1487.0	1481.7	1426.9	1373.8	1306.6	1223.5
22.5°	1660.3	1665.6	1640.8	1575.4	1536.5	1517.0	1513.5	1465.8	1414.5	1352.6	1274.8
25°	1670.9	1670.9	1658.5	1587.8	1559.5	1554.2	1552.4	1510.0	1464.0	1402.1	1326.1
27.5°	1683.2	1683.2	1674.4	1605.4	1594.8	1593.1	1591.3	1571.8	1534.7	1462.2	1386.2
30°	1715.1	1716.8	1709.8	1640.8	1633.7	1653.2	1656.7	1646.1	1600.1	1510.0	1448.1
32.5°	1794.6	1778.7	1759.3	1665.6	1677.9	1702.7	1704.5	1683.2	1633.7	1561.2	1522.3
35°	1994.4	1900.7	1812.3	1686.8	1692.1	1716.8	1720.4	1718.6	1688.5	1626.7	1607.2
37.5°	2180.1	2047.5	1921.9	1736.3	1718.6	1745.1	1752.2	1782.3	1759.3	1716.8	1722.1
40°	2287.9	2236.7	2148.2	1872.4	1771.6	1812.3	1819.4	1865.4	1856.5	1838.8	1872.4
42.5°	2620.3	2623.9	2528.4	2075.8	1868.9	1934.3	1943.1	1980.3	1992.7	2001.5	2082.8
45°	3005.8	3018.2	2995.2	2441.8	2052.8	2074.0	2086.4	2135.9	2181.8	2238.4	2386.9
47.5°	3469.0	3458.4	3373.5	2889.1	2372.8	2254.3	2263.2	2358.7	2438.2	2562.0	2774.2
50°	3879.2	3905.7	3744.8	3306.4	2823.7	2539.0	2530.2	2623.9	2767.1	2940.4	3207.3
52.5°	4293.0	4254.1	4036.6	3720.1	3357.6	2926.2	2899.7	2951.0	3152.5	3357.6	3631.7
55°	4402.6	4406.1	4331.9	4172.7	3803.2	3396.5	3352.3	3348.8	3599.9	3739.5	4077.3
57.5°	4618.3	4627.1	4644.8	4676.6	4501.6	3866.8	3820.9	3771.4	4015.4	4096.7	4524.6
60°	4837.5	4848.1	4956.0	5127.5	5010.8	4374.3	4324.8	4208.1	4344.2	4453.9	4994.9
62.5°	4809.2	4883.5	5196.5	5537.7	5523.6	4931.2	4869.4	4588.2	4674.9	4770.3	5426.3
65°	4342.5	4422.0	5125.7	5650.9	6038.1	5481.1	5380.3	4980.8	4986.1	5101.0	5841.8
67.5°	3925.2	4011.8	4683.7	5603.1	6377.6	5974.4	5870.1	5375.0	5291.9	5482.9	6064.6
70°	3684.7	3771.4	4331.9	5454.6	6473.0	6520.8	6430.6	5825.9	5656.2	5831.2	5815.3
72.5°	2883.8	3019.9	3882.8	5171.7	6575.6	7106.0	7035.3	6397.0	5965.6	5467.0	4427.3
75°	1149.3	1274.8	2424.1	4162.1	6446.5	7609.9	7555.1	6653.4	5521.8	3904.0	2266.7
77.5°	346.5	371.3	673.6	2058.1	4726.1	6747.1	6729.4	5594.3	3907.5	1812.3	618.8
80°	114.9	127.3	206.9	567.6	2157.1	4215.2	4294.7	3564.5	1775.2	415.5	125.5
82.5°	47.7	53.0	104.3	228.1	763.8	1815.8	1789.3	1596.6	618.8	258.1	46.0
85°	12.4	15.9	47.7	130.8	279.4	625.9	657.7	535.7	350.1	213.9	14.1
87.5°	0.0	0.0	23.0	53.0	125.5	189.2	198.0	162.7	198.0	160.9	7.1
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°	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2	1043.2
2.5°	1039.6	1030.8	1014.9	1004.3	990.1	986.6	979.5	970.7	968.9	960.1	961.8
5°	1022.0	1007.8	979.5	960.1	937.1	930.0	917.6	908.8	901.7	889.4	891.1
7.5°	1018.4	997.2	958.3	921.2	884.1	857.5	820.4	790.3	765.6	739.1	744.4
10°	1030.8	1004.3	949.5	898.2	831.0	746.1	648.9	585.2	553.4	521.6	525.1
12.5°	1055.6	1023.7	953.0	875.2	739.1	594.1	459.7	373.1	350.1	335.9	337.7
15°	1092.7	1053.8	963.6	831.0	615.3	429.6	305.9	268.8	277.6	282.9	282.9
17.5°	1131.6	1087.4	972.5	751.4	475.6	300.6	249.3	245.8	258.1	270.5	270.5
20°	1179.3	1122.7	974.2	650.7	343.0	244.0	235.2	235.2	244.0	258.1	258.1
22.5°	1225.3	1161.6	958.3	535.7	261.7	226.3	226.3	226.3	231.6	245.8	247.5
25°	1280.1	1209.4	924.7	413.7	224.5	215.7	215.7	217.5	221.0	233.4	235.2
27.5°	1338.5	1258.9	868.1	302.3	205.1	203.3	205.1	206.9	208.6	221.0	224.5
30°	1405.6	1313.7	795.6	226.3	187.4	187.4	192.7	196.3	196.3	206.9	210.4
32.5°	1483.4	1386.2	709.0	187.4	169.7	168.0	176.8	182.1	182.1	191.0	194.5
35°	1580.7	1460.5	604.7	166.2	155.6	152.1	155.6	164.4	168.0	175.0	176.8
37.5°	1709.8	1548.9	493.3	153.8	145.0	137.9	137.9	139.7	146.8	153.8	155.6
40°	1874.2	1646.1	383.7	145.0	134.4	127.3	122.0	120.2	118.5	123.8	127.3
42.5°	2081.1	1755.7	286.4	136.1	125.5	114.9	107.9	100.8	91.9	90.2	91.9
45°	2346.3	1890.1	212.2	129.1	120.2	104.3	91.9	79.6	63.7	58.3	60.1
47.5°	2659.2	2029.8	166.2	122.0	116.7	91.9	76.0	54.8	38.9	35.4	37.1
50°	2991.6	2164.2	141.4	113.2	109.6	79.6	54.8	33.6	23.0	23.0	24.8
52.5°	3274.5	2240.2	129.1	106.1	99.0	65.4	35.4	19.4	14.1	14.1	15.9
55°	3548.6	2280.9	120.2	99.0	84.9	46.0	19.4	12.4	8.8	8.8	8.8
57.5°	3831.5	2298.5	109.6	90.2	67.2	28.3	10.6	7.1	5.3	5.3	5.3
60°	4082.6	2264.9	93.7	74.3	44.2	14.1	5.3	5.3	3.5	1.8	1.8
62.5°	4293.0	2201.3	65.4	53.0	26.5	7.1	3.5	1.8	0.0	0.0	0.0
65°	4422.0	2098.7	42.4	35.4	15.9	5.3	1.8	0.0	0.0	0.0	0.0
67.5°	4384.9	1906.0	26.5	23.0	7.1	3.5	1.8	0.0	0.0	0.0	0.0
70°	3957.0	1563.0	19.4	14.1	5.3	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	2852.0	1057.3	14.1	8.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1372.0	376.6	8.8	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	335.9	83.1	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	74.3	15.9	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.8	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	1.8	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)