

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: P258048

Luminaire Tested: **ARCH-L-AF72-120-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258048
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-AF72-120-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA 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: 11085.5 lumens
Efficiency: N/A
Efficacy: 90.1 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

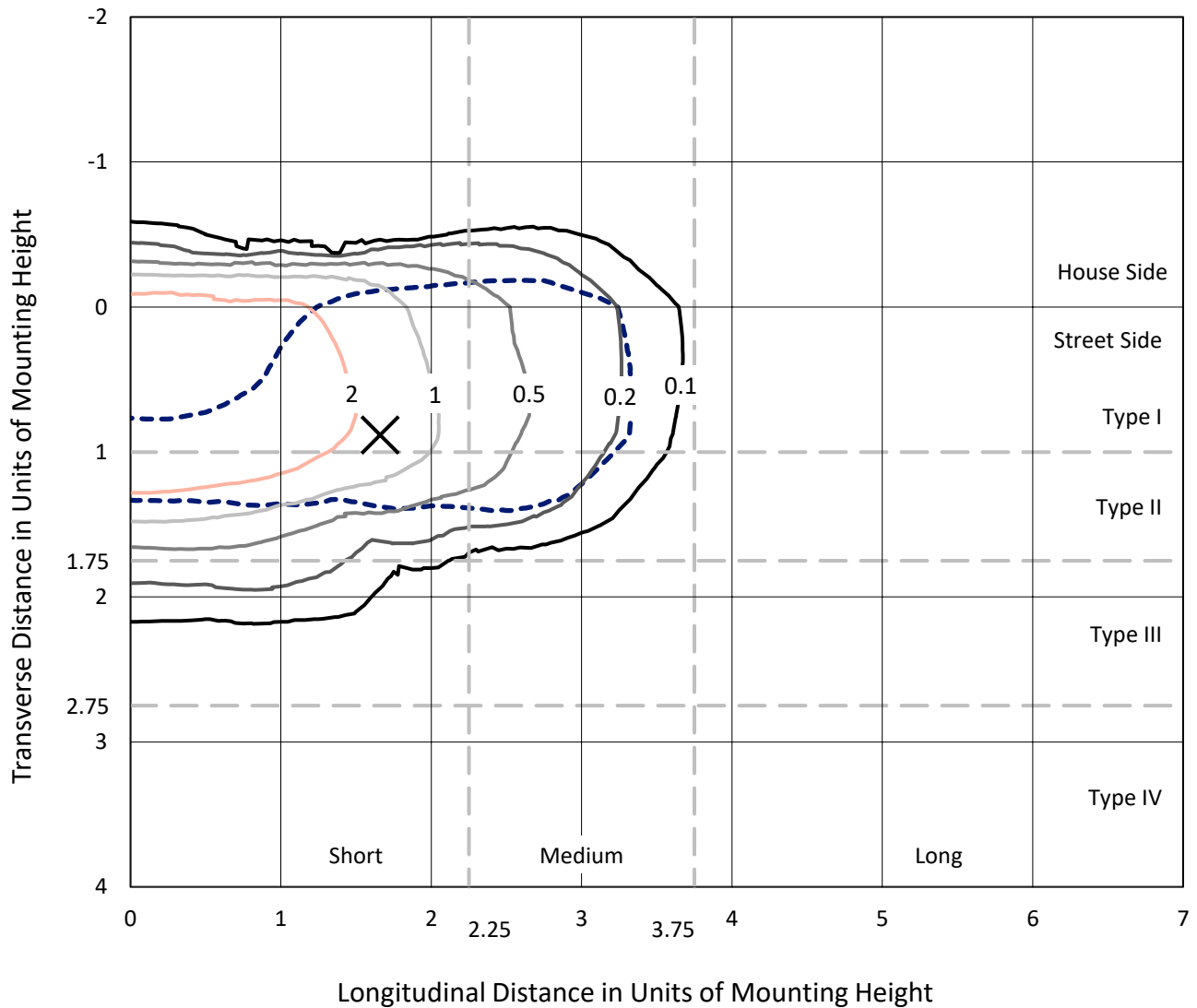
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

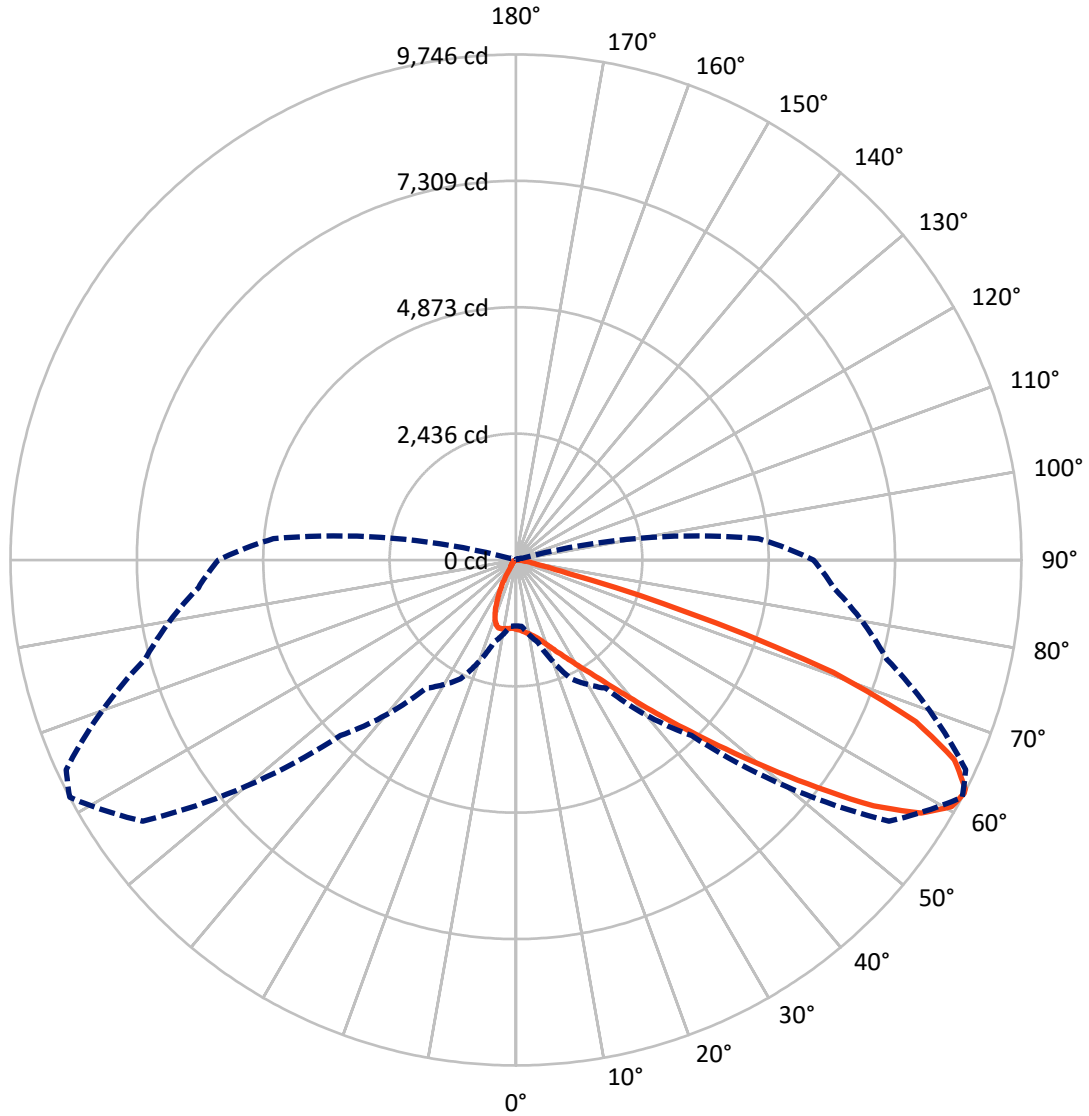
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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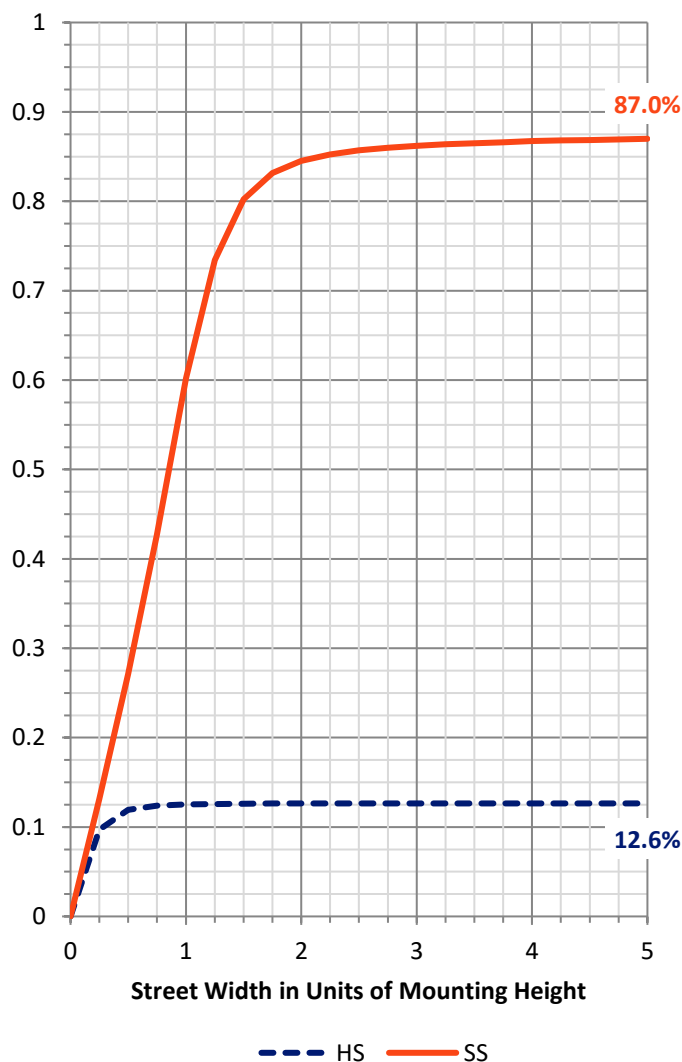
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.4	0.0	1417.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9668.0	0.0	9668.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	11085.5	0.0	11085.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	1.2
10°-20°	358.9	3.2
20°-30°	602.7	5.4
30°-40°	1155.3	10.4
40°-50°	2359.8	21.3
50°-60°	3122.8	28.2
60°-70°	2425.9	21.9
70°-80°	875.6	7.9
80°-90°	55.8	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°	11085.5	100.0
0°-180°	11085.5	100.0

Coefficient of Utilization



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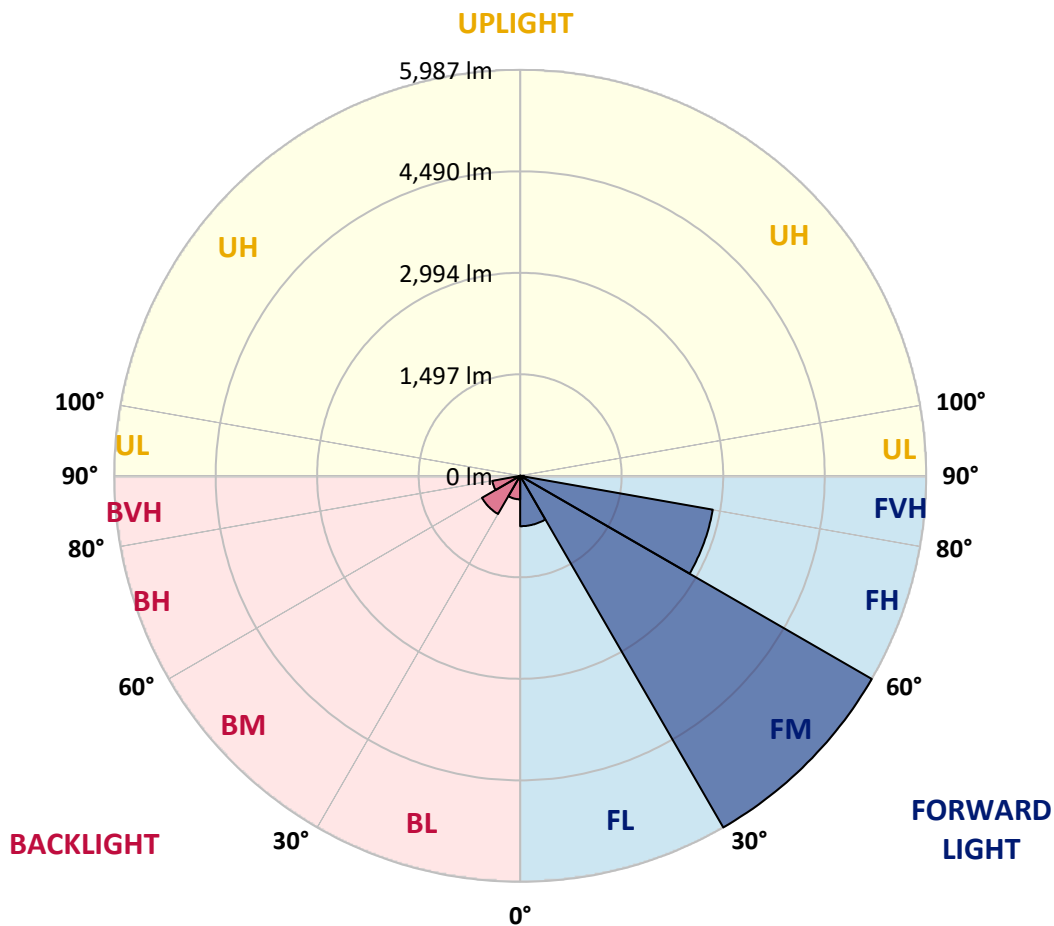
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.2	6.7			
FM (30°-60°)	5987.3	54.0			
FH (60°-80°)	2884.2	26.0			G2/5000
FVH (80°-90°)	53.4	0.5			G1/100
BL (0°-30°)	346.9	3.1	B1/500		
BM (30°-60°)	650.7	5.9	B1/1000		
BH (60°-80°)	417.4	3.8	B1/500		G1/500
BVH (80°-90°)	2.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1370.7	1368.0	1365.4	1362.7	1362.7	1360.0	1357.2	1351.7	1346.3	1340.8	1338.1
5°	1395.4	1392.6	1389.9	1392.6	1389.9	1389.9	1387.1	1381.7	1376.2	1368.0	1360.0
7.5°	1414.5	1411.7	1409.0	1411.7	1414.5	1417.1	1419.9	1414.5	1411.7	1400.8	1392.6
10°	1439.0	1436.2	1433.5	1439.0	1439.0	1452.6	1455.4	1452.6	1449.9	1441.6	1428.0
12.5°	1474.4	1477.0	1477.0	1482.5	1488.0	1504.4	1509.9	1501.7	1501.7	1490.8	1474.4
15°	1539.8	1539.8	1539.8	1545.3	1547.9	1569.7	1575.2	1567.0	1572.5	1553.4	1537.1
17.5°	1602.5	1605.2	1610.6	1621.5	1621.5	1640.6	1651.6	1651.6	1662.4	1637.9	1616.1
20°	1665.1	1667.9	1676.0	1700.6	1700.6	1725.1	1744.3	1752.3	1763.2	1738.8	1700.6
22.5°	1733.3	1733.3	1746.9	1785.1	1776.9	1825.9	1861.3	1875.0	1886.0	1853.1	1793.3
25°	1836.8	1825.9	1836.8	1872.2	1866.8	1935.0	2000.3	2013.9	2027.7	1989.5	1899.5
27.5°	2033.1	2016.7	1978.5	1981.3	1981.3	2060.3	2153.0	2172.1	2180.3	2147.5	2035.8
30°	2425.4	2425.4	2283.7	2188.4	2125.7	2196.5	2327.4	2360.1	2371.0	2322.0	2174.8
32.5°	3109.5	3109.5	2848.0	2605.4	2368.3	2368.3	2518.2	2578.1	2589.0	2531.7	2360.1
35°	3981.6	3976.2	3583.7	3251.2	2788.0	2613.6	2741.7	2842.5	2875.1	2798.9	2600.0
37.5°	4908.3	4872.8	4450.3	4068.9	3433.8	3005.9	3044.2	3177.7	3207.7	3144.9	2910.5
40°	5660.4	5619.5	5278.9	4960.1	4267.7	3632.8	3480.1	3602.9	3638.3	3551.0	3281.3
42.5°	6341.7	6240.9	6006.5	5777.6	5227.1	4717.5	4060.6	4109.7	4147.9	4055.2	3698.2
45°	6835.0	6679.7	6559.7	6488.9	6197.3	5908.4	4812.9	4714.7	4728.3	4613.9	4153.3
47.5°	6848.6	6739.6	6750.5	6935.9	7055.8	7044.8	5791.2	5442.4	5390.7	5199.8	4638.4
50°	6194.6	6257.3	6456.1	6984.8	7633.5	8025.9	6954.9	6303.6	6148.2	5804.8	5120.8
52.5°	5104.5	5202.6	5575.9	6467.0	7718.0	8671.8	8162.2	7287.4	7009.4	6404.4	5491.5
55°	3998.1	4003.5	4395.8	5303.5	7153.9	8789.1	9127.0	8369.4	7944.1	6859.6	5736.6
57.5°	2749.8	2899.7	3398.4	4008.8	5881.1	8205.8	9489.3	9208.7	8661.0	7140.2	5908.4
60°	1801.3	1809.6	2390.0	3096.0	4003.5	6677.0	9268.7	9652.9	9241.3	7306.5	6025.5
62°	1270.0	1283.6	1643.4	2529.1	3016.8	4785.5	8780.8	9745.6	9568.5	7404.6	6148.2
62.5°	1177.3	1188.2	1490.8	2387.4	2834.3	4292.4	8606.5	9723.7	9617.5	7437.3	6191.8
65°	863.9	863.9	975.6	1640.6	2076.7	2319.2	7292.8	9290.5	9552.1	7699.0	6355.4
67.5°	667.7	673.1	711.3	1011.0	1567.0	1406.2	4654.8	8314.8	8870.8	8085.9	6448.1
70°	575.0	572.3	599.7	670.5	1131.0	934.8	2049.3	6488.9	7429.1	7987.8	6363.5
72.5°	425.1	427.9	490.6	588.7	787.6	607.7	926.6	3444.7	4818.4	6251.9	5453.2
75°	272.5	275.3	346.2	463.3	566.8	397.9	534.2	1027.5	1973.1	3466.6	3335.8
77.5°	182.6	188.0	226.1	324.3	496.0	248.0	335.2	430.6	594.2	1299.9	1196.4
80°	122.6	122.6	144.4	218.0	313.3	207.1	179.8	286.2	308.0	403.3	201.7
82.5°	81.7	81.7	95.4	144.4	204.5	185.3	109.0	155.3	179.8	201.7	70.9
85°	49.0	49.0	65.4	89.9	133.6	103.6	70.9	87.2	92.7	128.1	38.1
87.5°	29.9	27.2	43.6	62.8	70.9	62.8	46.3	46.3	49.0	70.9	19.1
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°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1332.6	1329.9	1327.2	1321.7	1313.7	1308.2	1302.7	1297.2	1291.8	1291.8	1299.9
5°	1357.2	1349.1	1338.1	1327.2	1310.9	1299.9	1291.8	1280.8	1275.4	1275.4	1278.2
7.5°	1387.1	1379.0	1360.0	1340.8	1316.3	1297.2	1278.2	1253.6	1234.5	1226.3	1234.5
10°	1419.9	1409.0	1381.7	1351.7	1324.4	1275.4	1212.8	1136.4	1071.1	1041.0	1054.7
12.5°	1460.8	1447.1	1414.5	1373.5	1310.9	1190.9	1035.6	858.4	746.7	695.0	705.9
15°	1520.7	1501.7	1455.4	1392.6	1253.6	994.7	741.4	536.9	433.3	389.7	395.2
17.5°	1591.6	1567.0	1504.4	1387.1	1106.5	716.7	441.5	313.3	269.8	259.0	259.0
20°	1667.9	1635.2	1553.4	1346.3	883.1	449.7	275.3	239.9	223.4	215.3	215.3
22.5°	1746.9	1703.4	1594.3	1250.9	629.6	280.7	226.1	201.7	182.6	174.4	174.4
25°	1842.3	1785.1	1635.2	1084.6	400.7	226.1	193.5	169.0	149.9	139.0	141.7
27.5°	1954.0	1880.5	1670.6	877.6	259.0	196.2	160.8	136.2	119.9	114.5	114.5
30°	2071.2	1984.0	1678.8	656.7	209.9	169.0	133.6	111.8	100.8	95.4	95.4
32.5°	2232.0	2117.6	1654.3	436.1	177.1	141.7	111.8	92.7	84.4	81.7	81.7
35°	2444.5	2291.9	1597.1	269.8	149.9	117.2	92.7	81.7	73.5	70.9	70.9
37.5°	2714.3	2534.5	1496.2	185.3	128.1	95.4	79.0	70.9	65.4	62.8	62.8
40°	3074.1	2828.8	1365.4	160.8	109.0	81.7	68.2	62.8	57.3	57.3	57.3
42.5°	3455.7	3185.9	1196.4	141.7	92.7	70.9	60.0	54.5	51.8	49.0	49.0
45°	3872.5	3551.0	986.5	125.3	79.0	62.8	54.5	46.3	43.6	43.6	43.6
47.5°	4286.9	3927.1	757.6	109.0	68.2	54.5	46.3	40.9	38.1	35.4	35.4
50°	4712.1	4267.7	555.9	95.4	60.0	49.0	40.9	35.4	29.9	27.2	27.2
52.5°	5019.9	4472.2	406.1	81.7	51.8	40.9	32.7	27.2	21.9	19.1	19.1
55°	5246.2	4597.5	297.0	68.2	46.3	35.4	27.2	21.9	16.4	16.4	13.6
57.5°	5423.3	4657.5	223.4	60.0	40.9	29.9	21.9	16.4	13.6	10.9	10.9
60°	5559.5	4660.2	166.3	49.0	35.4	24.5	16.4	10.9	8.2	8.2	8.2
62°	5739.4	4695.6	136.2	40.9	32.7	21.9	13.6	8.2	5.5	2.7	2.7
62.5°	5791.2	4709.3	130.8	40.9	29.9	19.1	10.9	8.2	5.5	2.7	2.7
65°	6031.0	4733.7	100.8	32.7	24.5	16.4	8.2	5.5	0.0	0.0	0.0
67.5°	6249.1	4695.6	73.5	24.5	19.1	10.9	8.2	2.7	0.0	0.0	0.0
70°	6227.2	4434.1	51.8	16.4	13.6	8.2	5.5	0.0	0.0	0.0	0.0
72.5°	5131.7	3319.4	35.4	13.6	8.2	5.5	2.7	0.0	0.0	0.0	0.0
75°	3098.6	1452.6	24.5	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0
77.5°	1016.5	526.0	16.4	5.5	5.5	2.7	2.7	0.0	0.0	0.0	0.0
80°	166.3	87.2	8.2	5.5	5.5	2.7	2.7	0.0	0.0	0.0	0.0
82.5°	51.8	21.9	5.5	5.5	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	19.1	8.2	5.5	5.5	2.7	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	5.5	5.5	5.5	2.7	2.7	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)