

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: P348586

Luminaire Tested: **ARCH-N-PA1-40-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4634 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 41
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

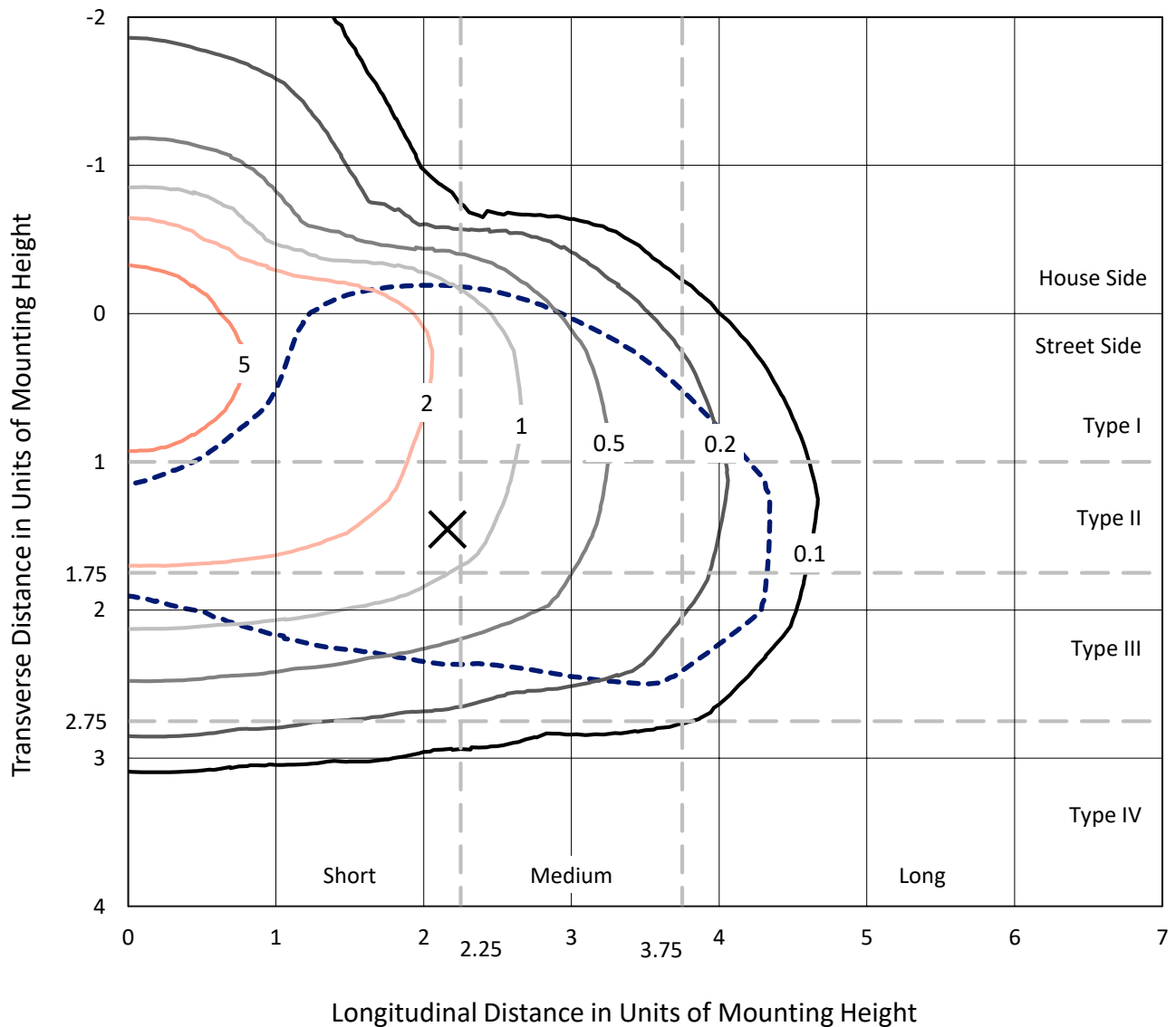


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

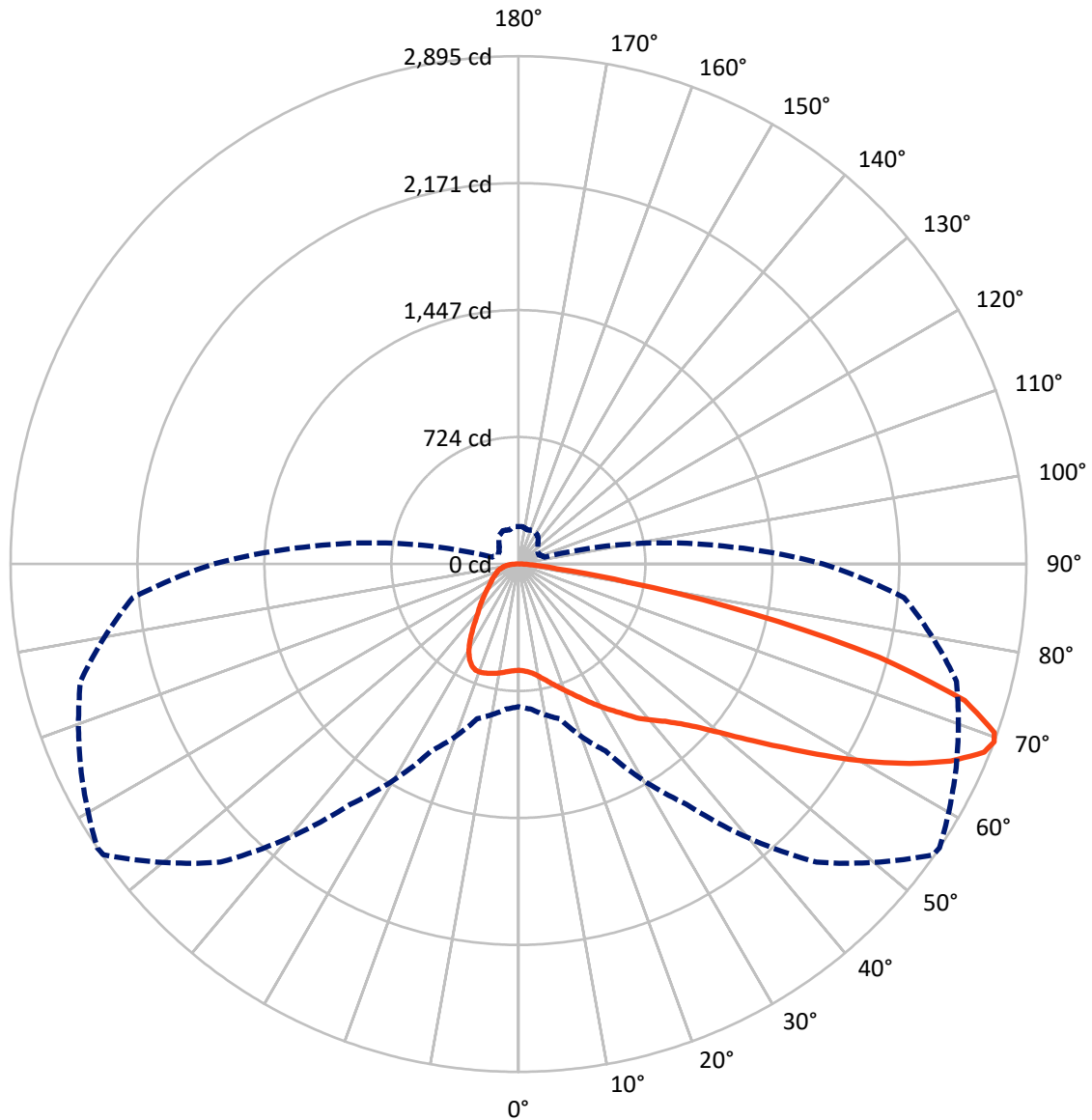


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.0	0.0	1032.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3602.0	0.0	3602.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	4634.0	0.0	4634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	1.3
10°-20°	191.3	4.1
20°-30°	334.0	7.2
30°-40°	479.8	10.4
40°-50°	664.0	14.3
50°-60°	972.8	21.0
60°-70°	1186.0	25.6
70°-80°	655.7	14.2
80°-90°	90.8	2.0
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°	4634.0	100.0
0°-180°	4634.0	100.0



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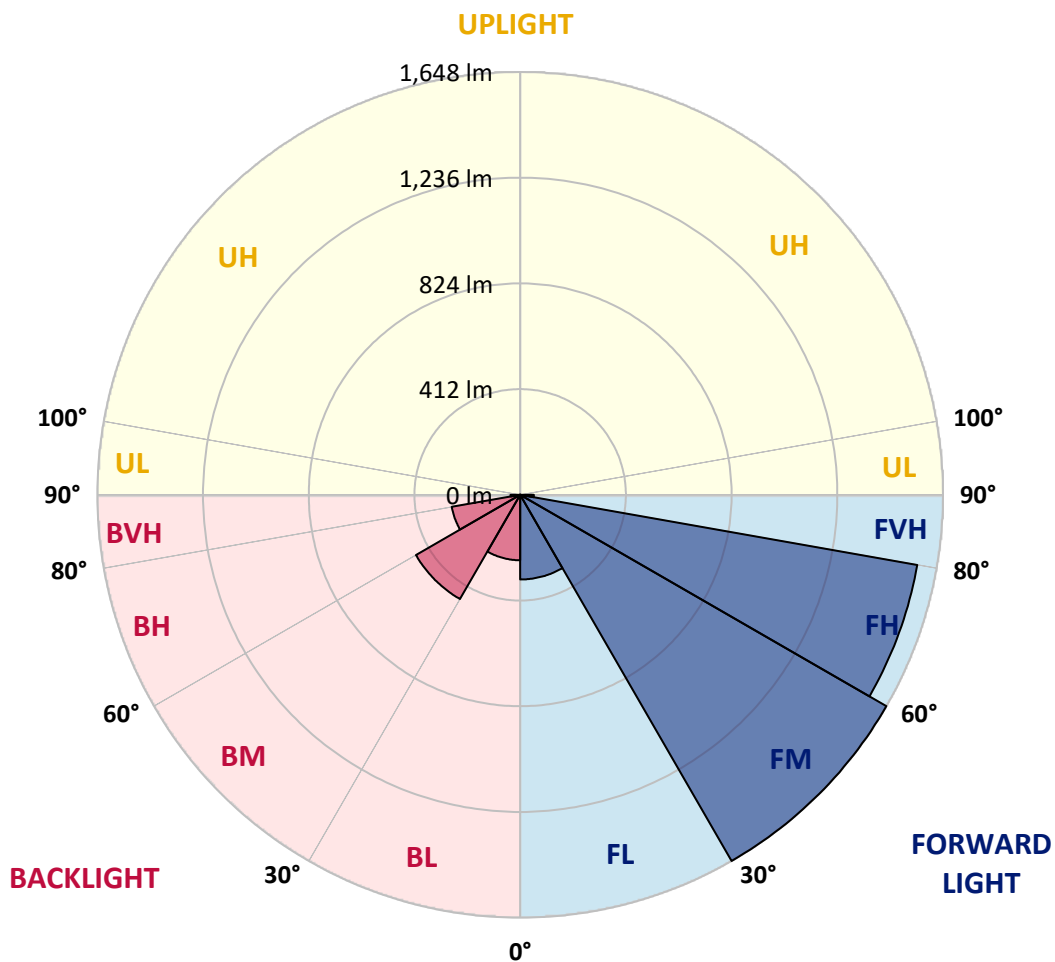
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.8	7.1			
FM	(30°-60°)	1647.6	35.6			
FH	(60°-80°)	1571.2	33.9			G1/1800
FVH	(80°-90°)	53.5	1.2			G1/100
BL	(0°-30°)	255.0	5.5	B1/500		
BM	(30°-60°)	469.0	10.1	B1/1000		
BH	(60°-80°)	270.6	5.8	B1/500		G1/500
BVH	(80°-90°)	37.3	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8
2.5°	609.7	610.3	609.8	611.1	609.7	610.6	609.8	609.8	609.3	607.9	606.3
5°	619.2	620.5	619.7	621.0	619.2	619.6	618.1	618.1	616.7	613.6	610.5
7.5°	634.2	635.7	635.0	636.3	633.9	633.9	632.0	631.8	629.0	624.0	620.4
10°	652.1	654.0	653.4	655.3	653.4	654.0	652.1	652.1	648.3	641.3	636.6
12.5°	678.1	680.5	678.8	678.6	677.8	679.1	677.5	677.2	673.7	664.1	657.7
15°	712.9	715.5	711.8	711.5	707.0	706.6	706.6	706.1	703.8	692.3	681.8
17.5°	753.0	753.8	750.6	745.5	739.8	736.1	735.6	736.9	736.9	723.5	706.7
20°	792.3	793.7	791.2	785.4	778.1	772.6	768.8	771.4	771.2	755.2	731.5
22.5°	835.1	838.4	834.6	827.2	818.6	812.6	805.9	808.1	808.2	788.6	755.7
25°	890.5	887.4	885.0	874.7	862.4	856.1	849.9	852.1	851.5	824.5	780.8
27.5°	939.5	940.1	936.9	925.9	911.7	898.0	897.6	899.1	896.7	861.9	804.4
30°	996.5	996.8	992.3	982.4	966.9	949.2	945.1	947.5	942.3	897.3	829.3
32.5°	1053.1	1054.7	1049.8	1037.8	1025.4	1003.8	995.5	997.1	984.3	933.6	855.0
35°	1102.8	1105.0	1103.4	1095.4	1081.9	1063.3	1053.5	1052.5	1036.7	977.9	889.0
37.5°	1153.4	1155.5	1153.7	1147.0	1141.6	1121.9	1116.7	1116.7	1089.2	1023.3	932.3
40°	1205.4	1208.6	1206.5	1197.3	1192.7	1183.7	1171.1	1168.1	1138.4	1077.7	1002.8
42.5°	1253.8	1257.9	1266.2	1260.8	1251.4	1252.7	1227.3	1225.7	1204.0	1158.2	1091.4
45°	1322.4	1328.5	1342.6	1338.4	1336.5	1329.5	1299.3	1297.9	1289.6	1266.4	1201.4
47.5°	1397.3	1405.6	1431.0	1431.8	1452.4	1439.1	1398.1	1393.2	1395.1	1396.0	1335.7
50°	1466.3	1475.4	1517.0	1536.7	1585.2	1588.1	1522.5	1518.0	1525.5	1547.5	1492.1
52.5°	1521.3	1532.8	1584.9	1645.5	1728.7	1752.3	1675.6	1672.2	1677.8	1715.8	1669.0
55°	1561.7	1574.2	1630.9	1741.3	1874.1	1915.8	1851.8	1848.6	1852.1	1900.5	1861.4
57.5°	1571.2	1574.2	1656.4	1805.8	1996.9	2097.0	2067.5	2061.1	2043.8	2086.0	2073.7
60°	1526.9	1539.1	1635.3	1828.5	2091.9	2275.6	2292.9	2284.9	2236.5	2271.0	2261.1
62.5°	1437.2	1458.9	1556.6	1794.0	2129.1	2421.5	2514.0	2504.4	2421.1	2443.4	2395.8
65°	1290.7	1299.9	1402.6	1675.1	2081.8	2514.9	2711.1	2706.3	2601.5	2566.5	2420.7
67.5°	1028.5	1045.9	1133.1	1426.5	1888.5	2503.9	2863.6	2863.1	2719.3	2612.2	2332.5
69°	812.6	830.6	913.6	1175.1	1671.1	2403.2	2889.1	2894.7	2752.5	2584.4	2206.4
70°	647.8	668.7	725.7	989.8	1478.1	2270.4	2867.9	2878.0	2746.1	2538.6	2090.0
72.5°	275.7	292.6	333.2	510.2	900.8	1695.4	2622.2	2660.2	2598.1	2323.4	1727.3
75°	120.4	125.6	144.0	208.0	399.9	922.7	2054.2	2124.5	2221.5	1963.9	1286.7
77.5°	88.1	90.4	100.4	122.1	179.4	348.5	1321.0	1361.9	1602.1	1429.1	789.2
80°	68.2	69.8	77.6	89.7	117.2	141.0	602.5	637.6	900.8	734.0	328.7
82.5°	54.3	55.4	60.8	66.1	80.9	85.4	200.0	221.9	332.5	202.7	87.0
85°	50.4	51.7	53.6	48.2	51.9	50.1	86.5	90.5	100.4	79.7	36.4
87.5°	22.8	27.0	53.2	37.5	27.6	22.0	35.4	37.0	41.7	41.8	16.1
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°	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8
2.5°	607.3	606.8	607.6	605.7	608.1	607.9	607.1	607.4	609.0	608.9	609.0
5°	610.9	610.6	611.6	610.1	613.0	614.0	614.1	615.6	617.3	617.8	617.8
7.5°	620.2	620.2	620.7	618.8	620.7	620.5	619.7	621.2	622.9	623.1	622.9
10°	636.2	636.3	635.5	630.6	629.0	624.7	620.7	620.8	623.1	624.8	625.3
12.5°	656.3	655.6	652.1	643.0	636.3	627.5	623.4	623.2	625.5	626.9	627.4
15°	679.3	677.5	668.4	653.6	641.7	633.1	626.4	624.8	623.5	621.9	622.1
17.5°	701.0	697.0	681.8	661.2	648.8	637.3	624.3	614.0	606.8	602.6	601.4
20°	723.0	715.2	693.3	668.4	652.6	631.7	606.8	585.7	572.6	566.6	565.4
22.5°	743.1	730.5	704.0	675.9	649.6	612.8	573.7	543.1	524.9	516.7	517.4
25°	762.7	745.2	715.2	681.2	634.2	579.6	527.8	490.1	469.0	459.9	459.6
27.5°	780.0	760.0	727.3	676.9	605.7	532.4	473.3	436.6	419.0	411.2	410.0
30°	799.8	778.7	743.4	660.4	563.8	477.8	420.2	394.3	381.9	374.0	372.6
32.5°	823.9	804.1	756.7	630.6	510.4	420.8	378.7	360.6	349.3	340.5	338.9
35°	859.0	837.6	760.0	587.8	451.6	375.8	348.2	329.7	314.3	303.0	301.9
37.5°	903.1	879.6	752.4	532.4	394.6	346.6	322.8	300.0	280.0	264.0	261.5
40°	966.6	931.2	731.1	468.5	352.6	324.1	298.0	272.0	247.3	228.6	224.9
42.5°	1042.9	991.7	698.6	405.0	321.8	301.2	273.5	241.2	217.6	204.3	202.4
45°	1140.0	1054.6	653.4	349.4	291.5	278.4	247.0	217.3	202.6	192.8	191.2
47.5°	1250.8	1125.1	606.0	304.3	265.8	257.0	225.7	206.6	194.9	187.3	185.8
50°	1386.9	1204.8	555.7	267.2	239.9	231.3	215.7	200.7	191.4	185.5	184.1
52.5°	1540.5	1294.7	519.5	238.0	218.5	212.3	210.4	197.5	190.0	185.5	184.1
55°	1705.9	1386.1	480.4	213.4	200.0	201.8	206.9	197.8	192.7	187.3	185.2
57.5°	1871.4	1480.6	436.8	192.7	185.3	194.0	204.5	198.4	194.1	188.9	186.9
60°	2002.3	1540.5	369.2	175.3	173.7	185.3	198.7	193.6	188.1	188.2	187.9
62.5°	2063.5	1537.3	294.7	159.8	162.0	173.7	189.5	186.1	181.5	187.7	188.2
65°	2029.2	1460.7	229.4	145.7	149.6	161.6	179.9	182.5	184.1	196.0	197.6
67.5°	1885.2	1311.6	177.7	133.5	138.2	153.3	180.9	198.7	200.8	213.4	213.3
69°	1736.2	1171.7	154.4	127.1	132.7	155.3	193.3	209.1	201.3	214.7	212.8
70°	1611.4	1061.1	141.9	122.8	130.1	159.0	201.6	209.0	198.9	210.4	207.2
72.5°	1241.0	763.4	120.4	114.8	121.5	152.1	204.0	204.3	193.3	195.6	190.1
75°	851.2	482.4	105.0	103.9	108.4	137.1	196.4	195.2	178.8	175.6	171.1
77.5°	469.3	245.0	89.2	93.5	96.6	121.5	178.5	176.9	163.3	156.6	155.0
80°	181.0	107.3	75.3	83.2	85.1	105.2	156.4	155.0	143.7	135.1	132.7
82.5°	68.3	56.2	62.3	72.0	71.4	86.8	132.5	131.7	120.7	108.1	104.2
85°	31.6	33.7	49.3	59.4	54.8	64.3	106.0	107.4	94.0	79.0	79.0
87.5°	13.4	18.8	35.0	44.9	36.9	43.4	77.7	74.2	68.2	47.3	44.4
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)