

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: P348593

Luminaire Tested: **ARCH-N-PA1-40-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348593
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-PA1-40-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5046 lumens
Efficiency: N/A
Efficacy: 123.1 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

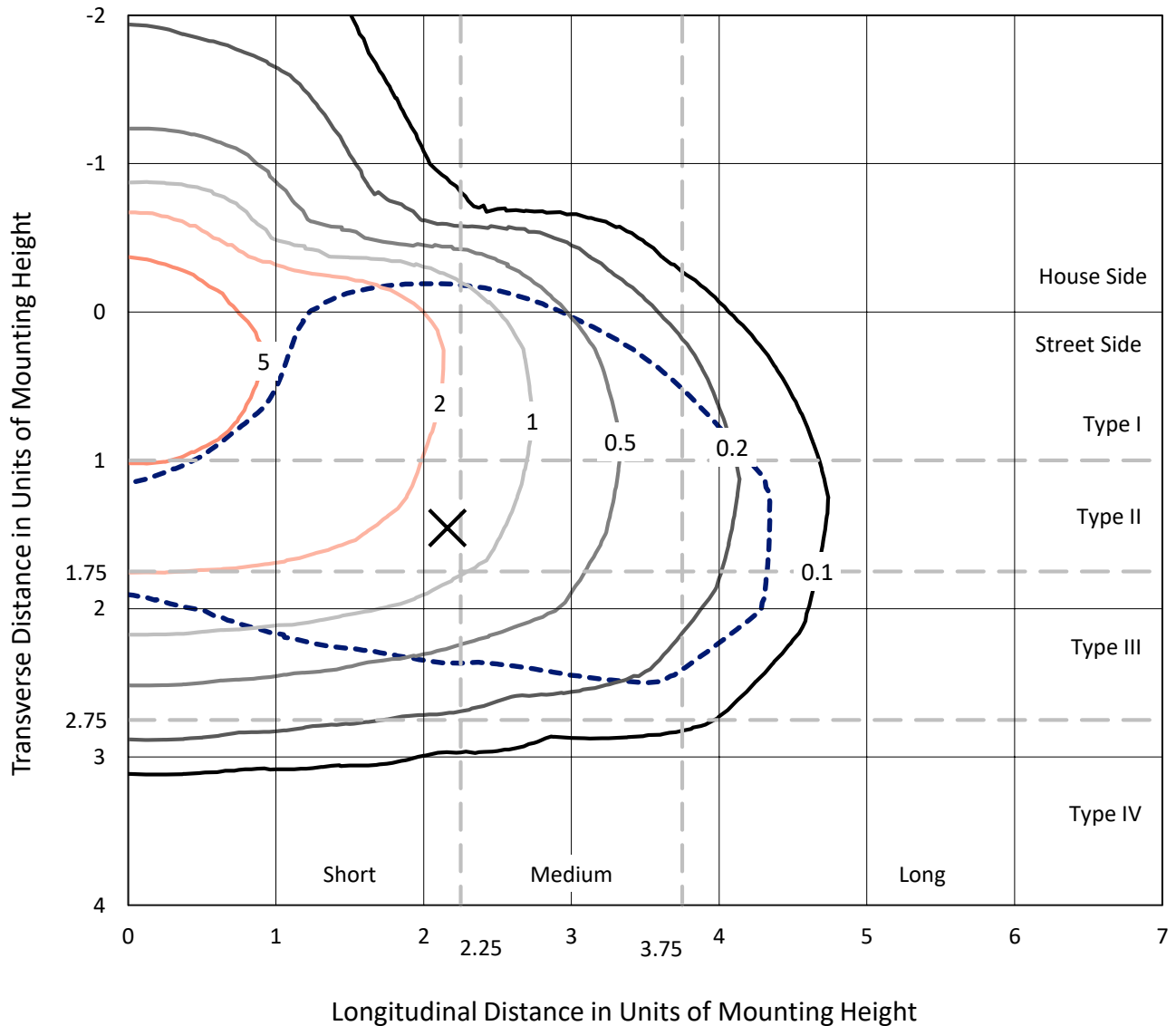
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

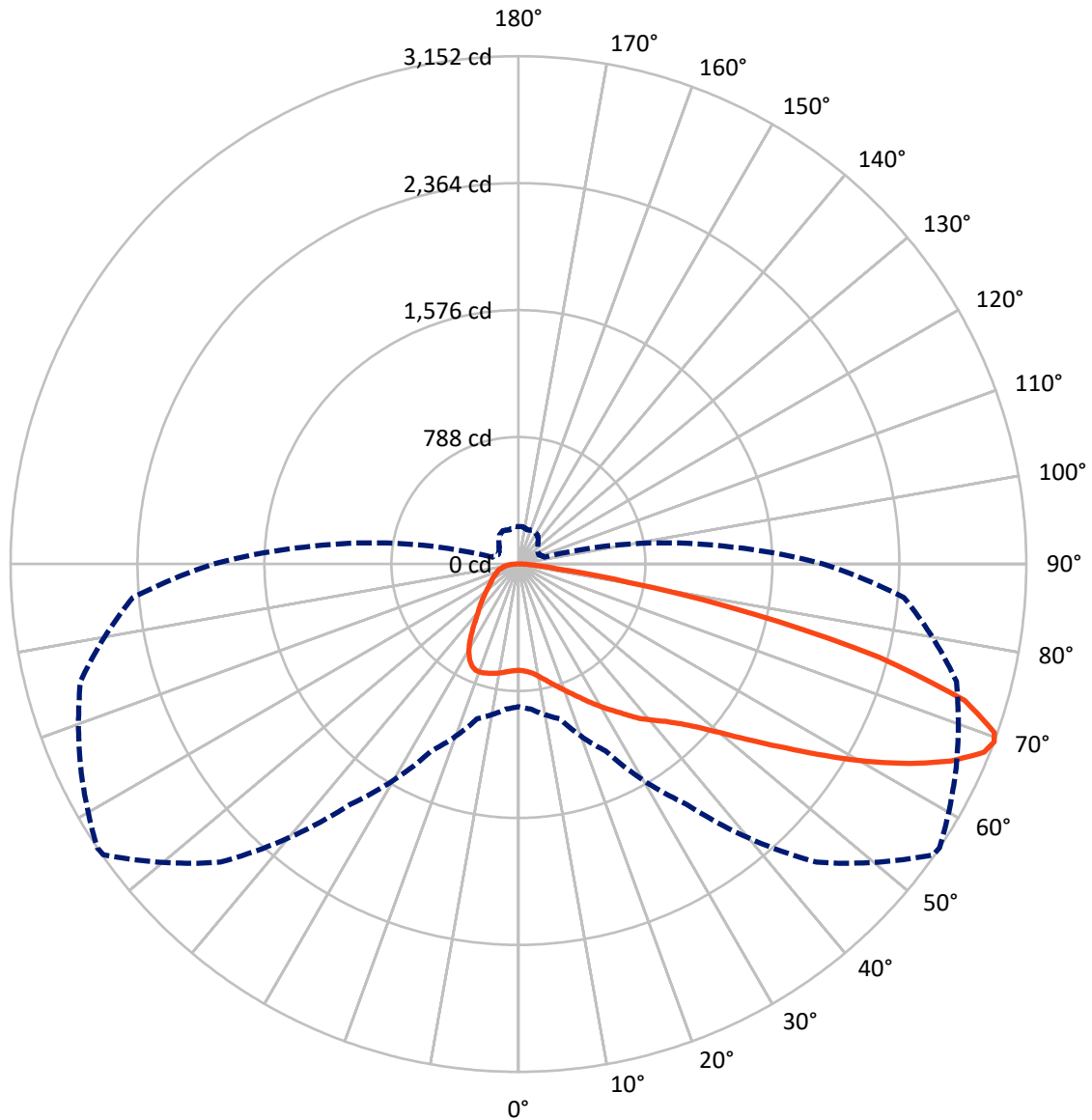


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Semi-Cutoff

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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	1123.7	0.0	1123.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3922.3	0.0	3922.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	5046.0	0.0	5046.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.3
10°-20°	208.3	4.1
20°-30°	363.7	7.2
30°-40°	522.4	10.4
40°-50°	723.0	14.3
50°-60°	1059.3	21.0
60°-70°	1291.5	25.6
70°-80°	714.0	14.2
80°-90°	98.9	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°	5046.0	100.0
0°-180°	5046.0	100.0



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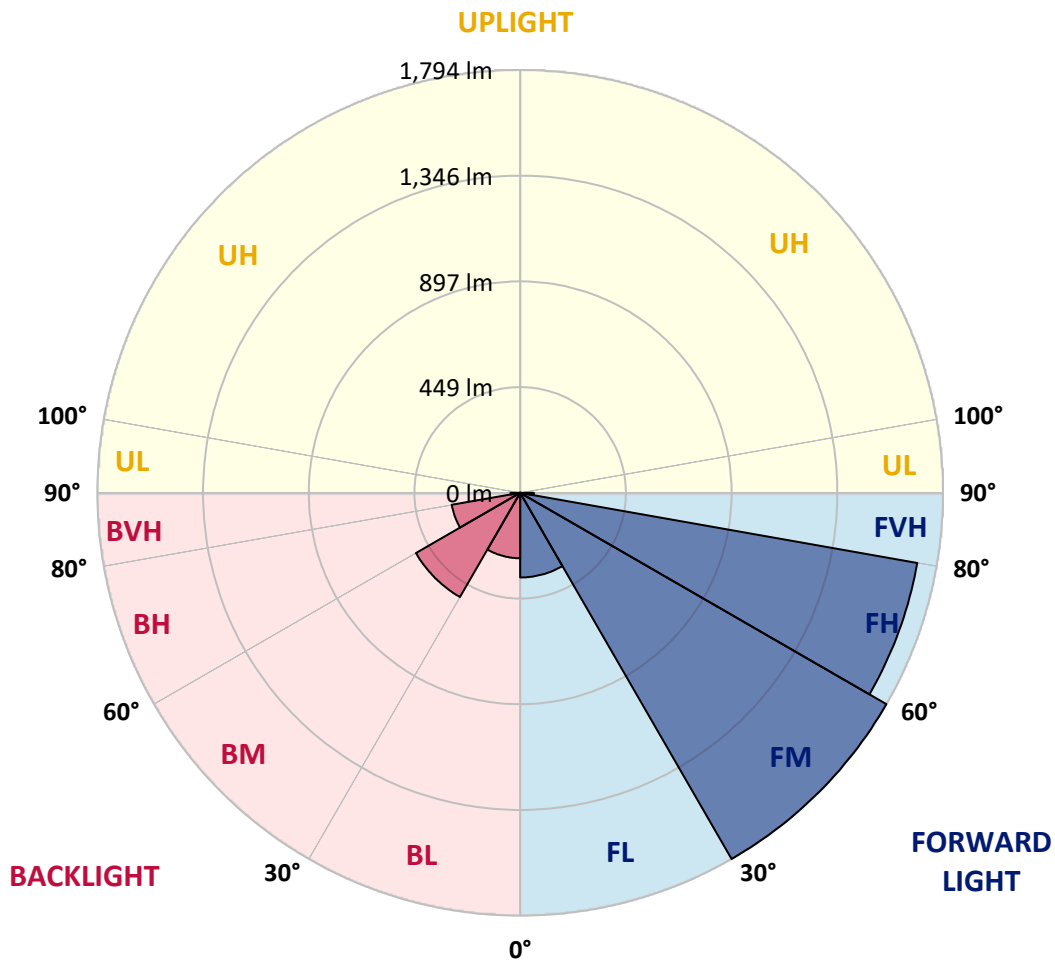
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.1	7.1			
FM	(30°-60°)	1794.0	35.6			
FH	(60°-80°)	1710.8	33.9			G1/1800
FVH	(80°-90°)	58.3	1.2			G1/100
BL	(0°-30°)	277.7	5.5	B1/500		
BM	(30°-60°)	510.7	10.1	B1/1000		
BH	(60°-80°)	294.7	5.8	B1/500		G1/500
BVH	(80°-90°)	40.6	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°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7
2.5°	663.9	664.6	664.0	665.4	663.9	664.9	664.0	664.0	663.5	661.9	660.2
5°	674.3	675.7	674.8	676.2	674.3	674.6	673.1	673.1	671.5	668.2	664.7
7.5°	690.6	692.2	691.5	692.9	690.3	690.3	688.2	688.0	684.9	679.5	675.5
10°	710.1	712.2	711.5	713.6	711.5	712.2	710.1	710.1	705.9	698.3	693.2
12.5°	738.4	741.0	739.1	739.0	738.1	739.5	737.7	737.4	733.6	723.1	716.2
15°	776.3	779.1	775.1	774.8	769.9	769.4	769.4	768.9	766.4	753.9	742.4
17.5°	820.0	820.8	817.4	811.8	805.5	801.5	801.0	802.4	802.4	787.8	769.5
20°	862.7	864.3	861.5	855.2	847.3	841.3	837.2	840.0	839.8	822.4	796.5
22.5°	909.3	913.0	908.8	900.8	891.4	884.8	877.5	879.9	880.1	858.7	822.9
25°	969.6	966.3	963.7	952.4	939.0	932.3	925.5	927.9	927.2	897.8	850.2
27.5°	1023.0	1023.7	1020.2	1008.2	992.7	977.8	977.5	979.0	976.4	938.5	875.9
30°	1085.1	1085.4	1080.5	1069.8	1052.9	1033.6	1029.1	1031.7	1026.1	977.1	903.1
32.5°	1146.8	1148.5	1143.1	1130.1	1116.5	1093.0	1084.0	1085.7	1071.8	1016.6	931.0
35°	1200.8	1203.3	1201.5	1192.8	1178.1	1157.9	1147.1	1146.1	1128.9	1064.9	968.1
37.5°	1255.9	1258.2	1256.3	1249.0	1243.1	1221.7	1215.9	1215.9	1186.0	1114.3	1015.2
40°	1312.6	1316.1	1313.8	1303.7	1298.7	1289.0	1275.2	1271.9	1239.6	1173.5	1092.0
42.5°	1365.3	1369.8	1378.8	1372.9	1362.7	1364.1	1336.4	1334.7	1311.0	1261.1	1188.5
45°	1440.0	1446.6	1461.9	1457.4	1455.3	1447.7	1414.8	1413.2	1404.2	1379.0	1308.3
47.5°	1521.5	1530.6	1558.2	1559.1	1581.5	1567.1	1522.4	1517.0	1519.1	1520.2	1454.4
50°	1596.6	1606.5	1651.9	1673.3	1726.1	1729.3	1657.8	1653.0	1661.1	1685.1	1624.8
52.5°	1656.6	1669.1	1725.8	1791.8	1882.4	1908.1	1824.5	1820.9	1827.0	1868.3	1817.4
55°	1700.6	1714.1	1775.9	1896.1	2040.8	2086.1	2016.4	2013.0	2016.8	2069.5	2026.9
57.5°	1710.8	1714.1	1803.7	1966.4	2174.5	2283.4	2251.3	2244.3	2225.6	2271.4	2258.1
60°	1662.7	1675.9	1780.7	1991.1	2277.9	2478.0	2496.7	2488.0	2435.4	2472.9	2462.1
62.5°	1565.0	1588.6	1695.0	1953.5	2318.4	2636.8	2737.5	2727.1	2636.3	2660.7	2608.9
65°	1405.4	1415.5	1527.3	1824.0	2266.9	2738.5	2952.2	2947.0	2832.7	2794.7	2636.0
67.5°	1120.0	1138.9	1233.9	1553.4	2056.4	2726.5	3118.2	3117.7	2961.0	2844.4	2539.8
69°	884.8	904.4	994.8	1279.6	1819.7	2616.9	3146.0	3152.1	2997.2	2814.1	2402.5
70°	705.4	728.2	790.2	1077.8	1609.5	2472.2	3122.9	3133.8	2990.2	2764.3	2275.8
72.5°	300.2	318.6	362.8	555.6	980.9	1846.1	2855.3	2896.7	2829.1	2529.9	1880.9
75°	131.1	136.8	156.8	226.5	435.4	1004.7	2236.9	2313.3	2419.0	2138.5	1401.1
77.5°	96.0	98.4	109.3	133.0	195.4	379.5	1438.5	1483.0	1744.6	1556.1	859.4
80°	74.2	76.0	84.5	97.7	127.6	153.5	656.0	694.3	980.9	799.3	357.9
82.5°	59.1	60.3	66.2	72.0	88.1	93.0	217.8	241.6	362.1	220.8	94.7
85°	54.9	56.3	58.4	52.5	56.5	54.6	94.2	98.6	109.3	86.7	39.6
87.5°	24.9	29.4	57.9	40.9	30.1	24.0	38.6	40.3	45.4	45.5	17.6
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°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7
2.5°	661.3	660.7	661.6	659.5	662.1	661.9	661.1	661.4	663.2	663.0	663.2
5°	665.3	664.9	665.9	664.4	667.5	668.6	668.7	670.3	672.2	672.7	672.7
7.5°	675.3	675.3	675.9	673.8	675.9	675.7	674.8	676.4	678.3	678.5	678.3
10°	692.7	692.9	692.0	686.6	684.9	680.2	675.9	676.0	678.5	680.4	680.9
12.5°	714.6	713.9	710.1	700.2	692.9	683.3	678.8	678.6	681.1	682.6	683.2
15°	739.7	737.7	727.8	711.7	698.8	689.4	682.1	680.4	679.0	677.2	677.4
17.5°	763.3	758.9	742.4	720.0	706.4	693.9	679.9	668.6	660.7	656.2	654.8
20°	787.3	778.8	754.9	727.8	710.6	687.8	660.7	637.8	623.5	616.9	615.7
22.5°	809.2	795.5	766.6	736.0	707.3	667.3	624.7	591.4	571.6	562.7	563.4
25°	830.6	811.4	778.8	741.7	690.6	631.2	574.7	533.7	510.7	500.8	500.5
27.5°	849.3	827.6	792.0	737.0	659.5	579.7	515.4	475.4	456.3	447.8	446.4
30°	870.9	847.9	809.5	719.1	614.0	520.3	457.5	429.4	415.8	407.3	405.7
32.5°	897.1	875.6	824.0	686.6	555.7	458.2	412.3	392.7	380.3	370.8	369.0
35°	935.4	912.1	827.6	640.0	491.8	409.2	379.1	359.0	342.3	329.9	328.7
37.5°	983.4	957.8	819.3	579.7	429.7	377.4	351.5	326.6	304.9	287.5	284.7
40°	1052.5	1014.0	796.1	510.2	384.0	352.9	324.5	296.2	269.3	248.9	244.9
42.5°	1135.6	1079.8	760.7	441.0	350.4	328.0	297.8	262.7	236.9	222.5	220.4
45°	1241.3	1148.3	711.5	380.5	317.4	303.2	268.9	236.6	220.6	210.0	208.2
47.5°	1362.0	1225.2	659.9	331.3	289.4	279.9	245.8	224.9	212.2	203.9	202.3
50°	1510.2	1311.9	605.1	291.0	261.3	251.9	234.8	218.5	208.4	202.0	200.4
52.5°	1677.5	1409.8	565.6	259.2	238.0	231.2	229.1	215.0	206.9	202.0	200.4
55°	1857.6	1509.4	523.1	232.4	217.8	219.7	225.3	215.4	209.8	203.9	201.6
57.5°	2037.8	1612.3	475.6	209.8	201.8	211.2	222.7	216.1	211.4	205.6	203.6
60°	2180.4	1677.5	402.1	190.9	189.1	201.8	216.4	210.9	204.8	204.9	204.6
62.5°	2246.9	1674.0	320.9	174.0	176.4	189.1	206.3	202.7	197.6	204.4	204.9
65°	2209.6	1590.6	249.8	158.7	162.9	175.9	195.9	198.7	200.4	213.5	215.2
67.5°	2052.8	1428.2	193.5	145.3	150.5	166.9	197.0	216.4	218.7	232.4	232.2
69°	1890.6	1275.9	168.1	138.4	144.5	169.1	210.5	227.7	219.2	233.8	231.7
70°	1754.6	1155.5	154.5	133.7	141.7	173.1	219.5	227.5	216.6	229.1	225.6
72.5°	1351.4	831.3	131.1	125.0	132.3	165.7	222.2	222.5	210.5	212.9	207.0
75°	926.9	525.3	114.4	113.2	118.0	149.3	213.8	212.6	194.7	191.2	186.3
77.5°	511.1	266.8	97.2	101.9	105.2	132.3	194.3	192.6	177.8	170.5	168.8
80°	197.1	116.8	82.0	90.6	92.7	114.6	170.4	168.8	156.4	147.1	144.5
82.5°	74.4	61.2	67.8	78.4	77.7	94.6	144.3	143.4	131.4	117.7	113.5
85°	34.4	36.7	53.7	64.7	59.6	70.1	115.4	117.0	102.4	86.0	86.0
87.5°	14.6	20.5	38.1	48.8	40.2	47.3	84.7	80.8	74.2	51.5	48.3
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)