

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: P348599

Luminaire Tested: **ARCH-N-PA1-30-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348599
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-PA1-30-740-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4387 lumens
Efficiency: N/A
Efficacy: 141.5 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

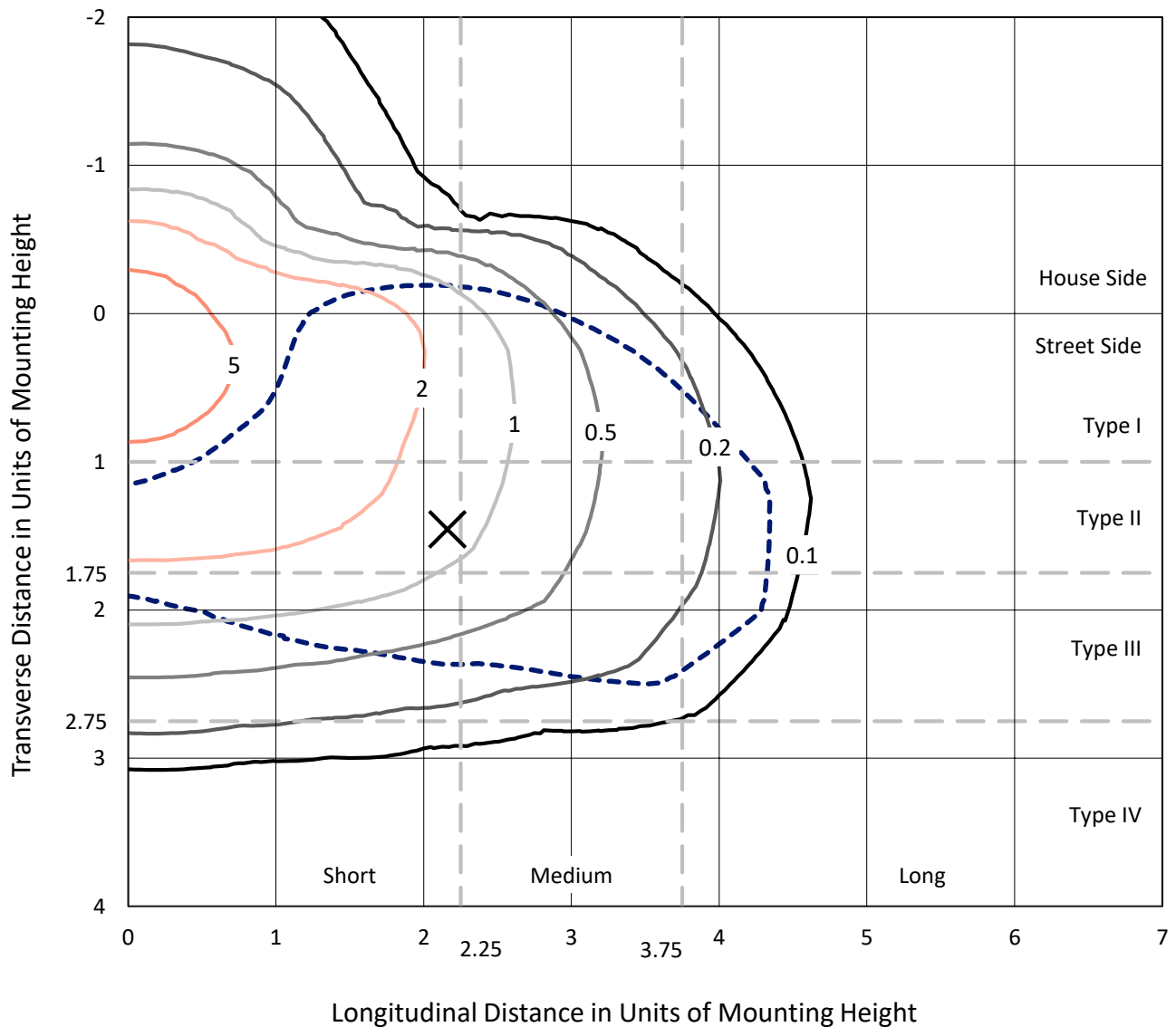
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

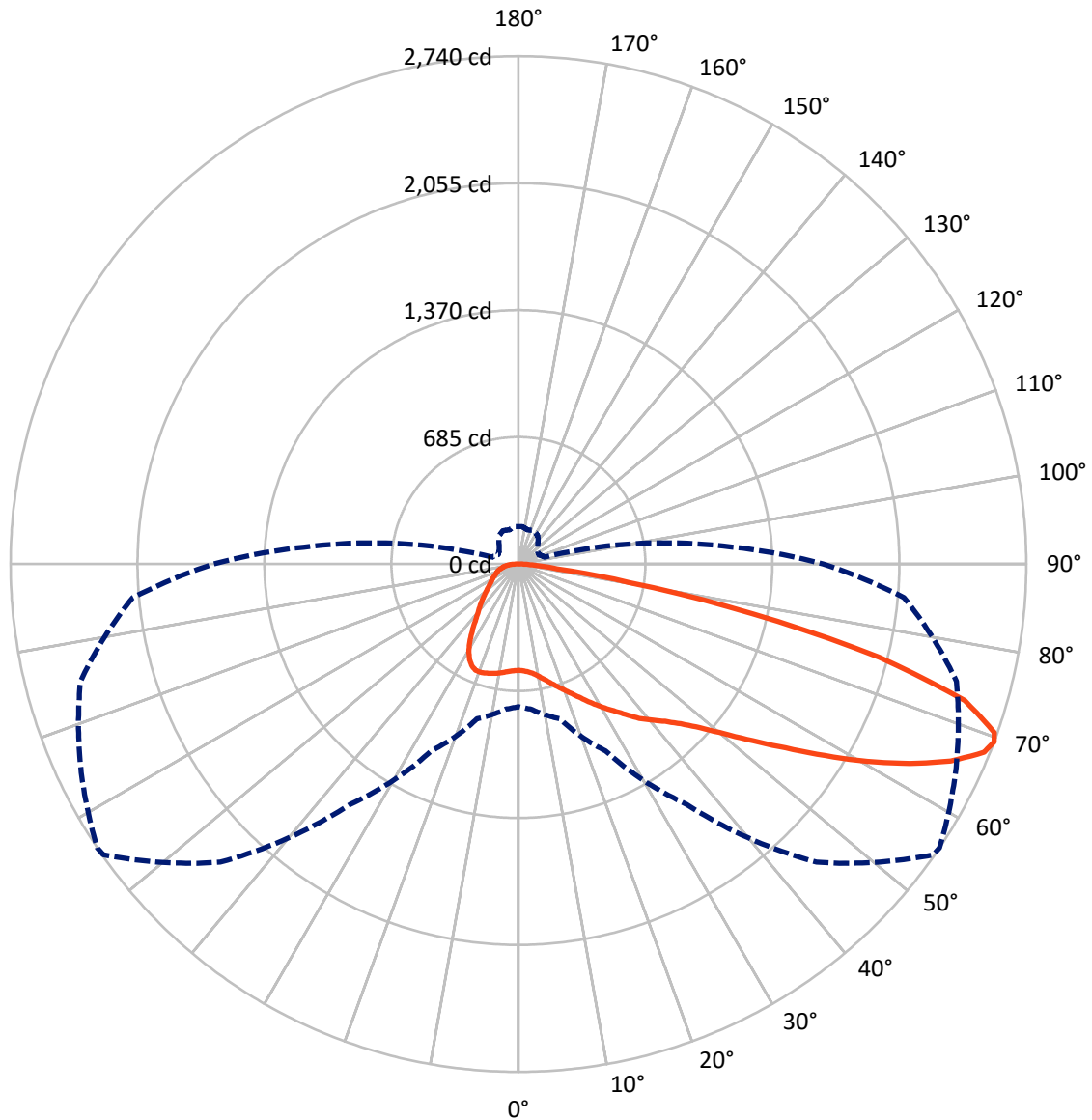


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - Semi-Cutoff

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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	977.0	0.0	977.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3410.0	0.0	3410.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	4387.0	0.0	4387.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.3
10°-20°	181.1	4.1
20°-30°	316.2	7.2
30°-40°	454.2	10.4
40°-50°	628.6	14.3
50°-60°	921.0	21.0
60°-70°	1122.8	25.6
70°-80°	620.8	14.2
80°-90°	86.0	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°	4387.0	100.0
0°-180°	4387.0	100.0



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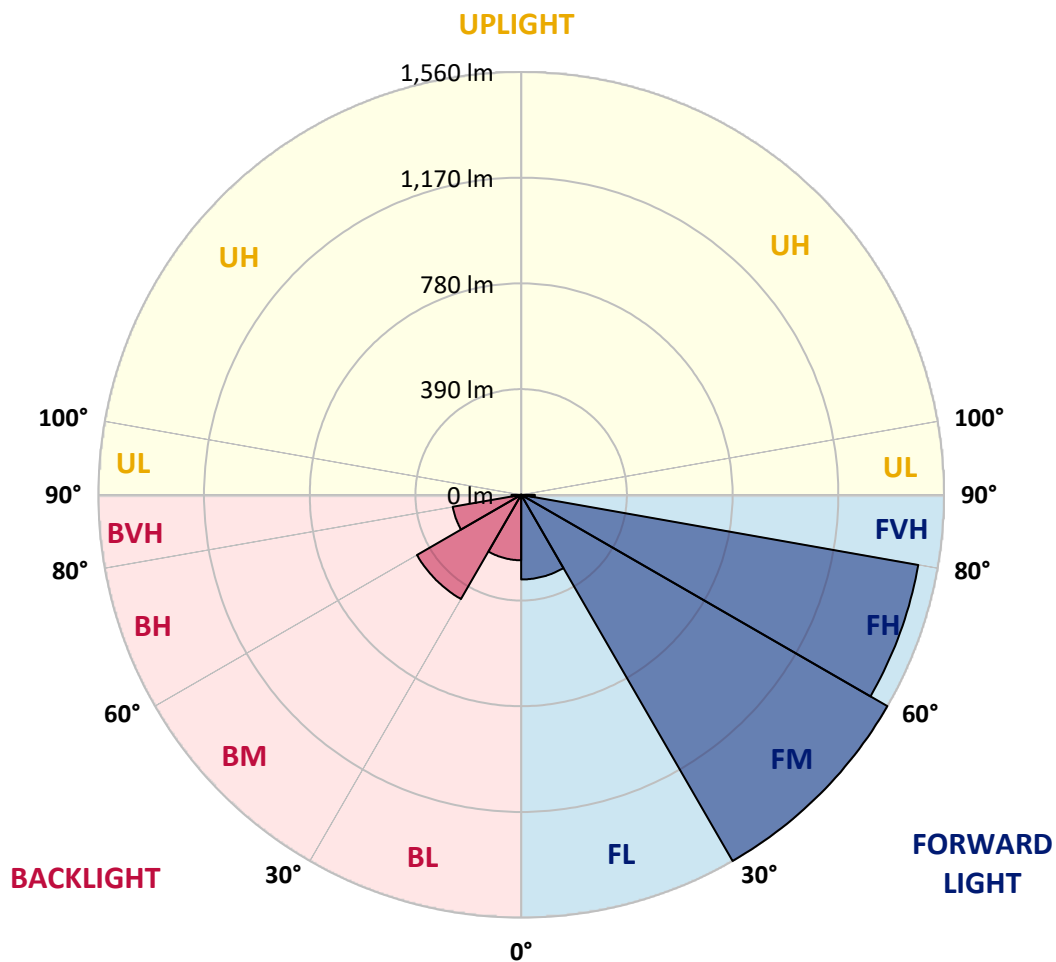
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.2	7.1			
FM	(30°-60°)	1559.7	35.6			
FH	(60°-80°)	1487.4	33.9			G1/1800
FVH	(80°-90°)	50.6	1.2			G1/100
BL	(0°-30°)	241.4	5.5	B1/500		
BM	(30°-60°)	444.0	10.1	B1/1000		
BH	(60°-80°)	256.2	5.8	B1/500		G1/500
BVH	(80°-90°)	35.3	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°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	577.2	577.8	577.3	578.5	577.2	578.1	577.3	577.3	576.9	575.5	574.0
5°	586.2	587.4	586.7	587.9	586.2	586.5	585.2	585.2	583.8	580.9	577.9
7.5°	600.4	601.8	601.2	602.4	600.1	600.1	598.3	598.2	595.4	590.8	587.3
10°	617.4	619.2	618.6	620.4	618.6	619.2	617.4	617.4	613.7	607.1	602.7
12.5°	642.0	644.3	642.6	642.4	641.7	642.9	641.4	641.1	637.8	628.7	622.7
15°	674.9	677.4	673.9	673.6	669.3	668.9	668.9	668.4	666.3	655.4	645.5
17.5°	712.9	713.6	710.6	705.8	700.3	696.9	696.4	697.6	697.6	684.9	669.0
20°	750.1	751.4	749.0	743.6	736.6	731.5	727.8	730.3	730.1	715.0	692.5
22.5°	790.6	793.7	790.1	783.2	775.0	769.2	762.9	765.0	765.2	746.6	715.4
25°	843.0	840.1	837.9	828.0	816.4	810.5	804.6	806.7	806.1	780.6	739.2
27.5°	889.4	890.0	887.0	876.5	863.1	850.1	849.8	851.2	848.9	815.9	761.5
30°	943.3	943.6	939.4	930.0	915.4	898.6	894.7	897.0	892.1	849.5	785.1
32.5°	997.0	998.5	993.8	982.5	970.7	950.3	942.4	944.0	931.9	883.8	809.4
35°	1044.0	1046.1	1044.6	1037.0	1024.2	1006.7	997.3	996.4	981.4	925.8	841.6
37.5°	1091.9	1093.9	1092.2	1085.9	1080.7	1062.1	1057.1	1057.1	1031.2	968.7	882.6
40°	1141.2	1144.2	1142.2	1133.5	1129.1	1120.6	1108.7	1105.8	1077.7	1020.3	949.4
42.5°	1187.0	1190.9	1198.8	1193.6	1184.7	1185.9	1161.9	1160.4	1139.8	1096.4	1033.3
45°	1252.0	1257.7	1271.0	1267.1	1265.3	1258.6	1230.0	1228.7	1220.8	1198.9	1137.4
47.5°	1322.8	1330.7	1354.7	1355.5	1375.0	1362.4	1323.6	1318.9	1320.7	1321.6	1264.5
50°	1388.1	1396.7	1436.2	1454.8	1500.7	1503.4	1441.3	1437.1	1444.2	1465.0	1412.6
52.5°	1440.3	1451.1	1500.4	1557.8	1636.6	1658.9	1586.2	1583.1	1588.4	1624.3	1580.1
55°	1478.5	1490.3	1543.9	1648.5	1774.3	1813.7	1753.1	1750.1	1753.4	1799.2	1762.2
57.5°	1487.4	1490.3	1568.1	1709.6	1890.5	1985.2	1957.3	1951.2	1934.9	1974.8	1963.2
60°	1445.5	1457.0	1548.2	1731.0	1980.4	2154.3	2170.7	2163.1	2117.3	2150.0	2140.6
62.5°	1360.6	1381.2	1473.7	1698.4	2015.6	2292.5	2380.0	2370.9	2292.0	2313.2	2268.1
65°	1221.9	1230.6	1327.8	1585.8	1970.9	2380.9	2566.6	2562.1	2462.8	2429.7	2291.7
67.5°	973.7	990.2	1072.7	1350.5	1787.9	2370.5	2711.0	2710.5	2574.3	2472.9	2208.1
69°	769.2	786.3	864.9	1112.5	1582.0	2275.1	2735.1	2740.4	2605.8	2446.6	2088.8
70°	613.3	633.1	687.0	937.0	1399.3	2149.4	2715.0	2724.6	2599.7	2403.3	1978.6
72.5°	261.0	277.0	315.4	483.0	852.8	1605.0	2482.4	2518.4	2459.6	2199.5	1635.2
75°	114.0	118.9	136.3	196.9	378.6	873.5	1944.7	2011.2	2103.1	1859.2	1218.1
77.5°	83.4	85.5	95.1	115.6	169.9	329.9	1250.6	1289.3	1516.7	1352.9	747.2
80°	64.5	66.0	73.4	84.9	110.9	133.4	570.4	603.6	852.8	694.9	311.2
82.5°	51.4	52.4	57.6	62.6	76.6	80.9	189.4	210.1	314.8	191.9	82.4
85°	47.8	49.0	50.8	45.6	49.1	47.5	81.9	85.7	95.1	75.4	34.5
87.5°	21.6	25.5	50.3	35.5	26.1	20.9	33.6	35.1	39.4	39.6	15.3
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°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	574.9	574.4	575.2	573.4	575.7	575.5	574.7	575.0	576.6	576.4	576.6
5°	578.4	578.1	579.0	577.6	580.3	581.2	581.4	582.8	584.4	584.9	584.9
7.5°	587.1	587.1	587.6	585.8	587.6	587.4	586.7	588.0	589.7	589.9	589.7
10°	602.2	602.4	601.6	597.0	595.4	591.4	587.6	587.7	589.9	591.5	592.0
12.5°	621.3	620.7	617.4	608.7	602.4	594.1	590.2	590.0	592.1	593.5	593.9
15°	643.1	641.4	632.8	618.7	607.5	599.4	593.0	591.5	590.3	588.8	588.9
17.5°	663.6	659.8	645.5	626.0	614.2	603.3	591.1	581.2	574.4	570.5	569.3
20°	684.5	677.1	656.4	632.8	617.8	598.0	574.4	554.5	542.1	536.4	535.3
22.5°	703.5	691.6	666.5	639.9	614.9	580.2	543.2	514.1	496.9	489.2	489.8
25°	722.1	705.5	677.1	644.9	600.4	548.7	499.6	464.0	444.0	435.4	435.1
27.5°	738.4	719.5	688.5	640.8	573.4	504.0	448.1	413.3	396.7	389.3	388.1
30°	757.2	737.2	703.8	625.2	533.8	452.3	397.8	373.3	361.5	354.1	352.7
32.5°	780.0	761.2	716.4	597.0	483.2	398.4	358.5	341.4	330.7	322.4	320.8
35°	813.2	793.0	719.5	556.5	427.5	355.8	329.6	312.1	297.6	286.8	285.8
37.5°	854.9	832.7	712.3	504.0	373.6	328.1	305.6	284.0	265.1	250.0	247.5
40°	915.1	881.5	692.2	443.6	333.8	306.8	282.2	257.5	234.1	216.4	212.9
42.5°	987.3	938.8	661.3	383.4	304.7	285.2	258.9	228.4	206.0	193.4	191.6
45°	1079.2	998.4	618.6	330.8	276.0	263.6	233.8	205.7	191.8	182.6	181.1
47.5°	1184.1	1065.2	573.7	288.1	251.6	243.3	213.7	195.6	184.5	177.3	175.9
50°	1313.0	1140.6	526.1	253.0	227.1	219.0	204.2	190.0	181.2	175.6	174.3
52.5°	1458.4	1225.7	491.8	225.3	206.9	201.0	199.2	186.9	179.8	175.6	174.3
55°	1615.0	1312.3	454.7	202.1	189.4	191.0	195.9	187.2	182.4	177.3	175.3
57.5°	1771.7	1401.7	413.5	182.4	175.5	183.6	193.6	187.9	183.8	178.8	177.0
60°	1895.6	1458.4	349.6	165.9	164.4	175.5	188.2	183.3	178.0	178.2	177.9
62.5°	1953.5	1455.4	279.0	151.3	153.4	164.4	179.4	176.2	171.8	177.7	178.2
65°	1921.0	1382.8	217.2	138.0	141.6	152.9	170.3	172.7	174.3	185.6	187.1
67.5°	1784.7	1241.7	168.2	126.3	130.9	145.1	171.2	188.2	190.1	202.1	201.9
69°	1643.7	1109.3	146.1	120.3	125.6	147.0	183.0	198.0	190.6	203.3	201.5
70°	1525.5	1004.6	134.4	116.2	123.2	150.5	190.9	197.8	188.3	199.2	196.2
72.5°	1174.9	722.7	114.0	108.7	115.0	144.0	193.1	193.4	183.0	185.1	180.0
75°	805.8	456.7	99.4	98.4	102.6	129.8	185.9	184.8	169.3	166.2	162.0
77.5°	444.3	232.0	84.5	88.6	91.4	115.0	169.0	167.5	154.6	148.3	146.7
80°	171.4	101.6	71.3	78.7	80.6	99.6	148.1	146.7	136.0	127.9	125.6
82.5°	64.7	53.2	58.9	68.2	67.6	82.2	125.4	124.7	114.3	102.3	98.7
85°	29.9	31.9	46.7	56.2	51.8	60.9	100.3	101.7	89.0	74.8	74.8
87.5°	12.7	17.8	33.1	42.5	34.9	41.1	73.6	70.3	64.5	44.7	42.0
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)