

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: P348641

Luminaire Tested: **ARCH-N-PA1-30-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

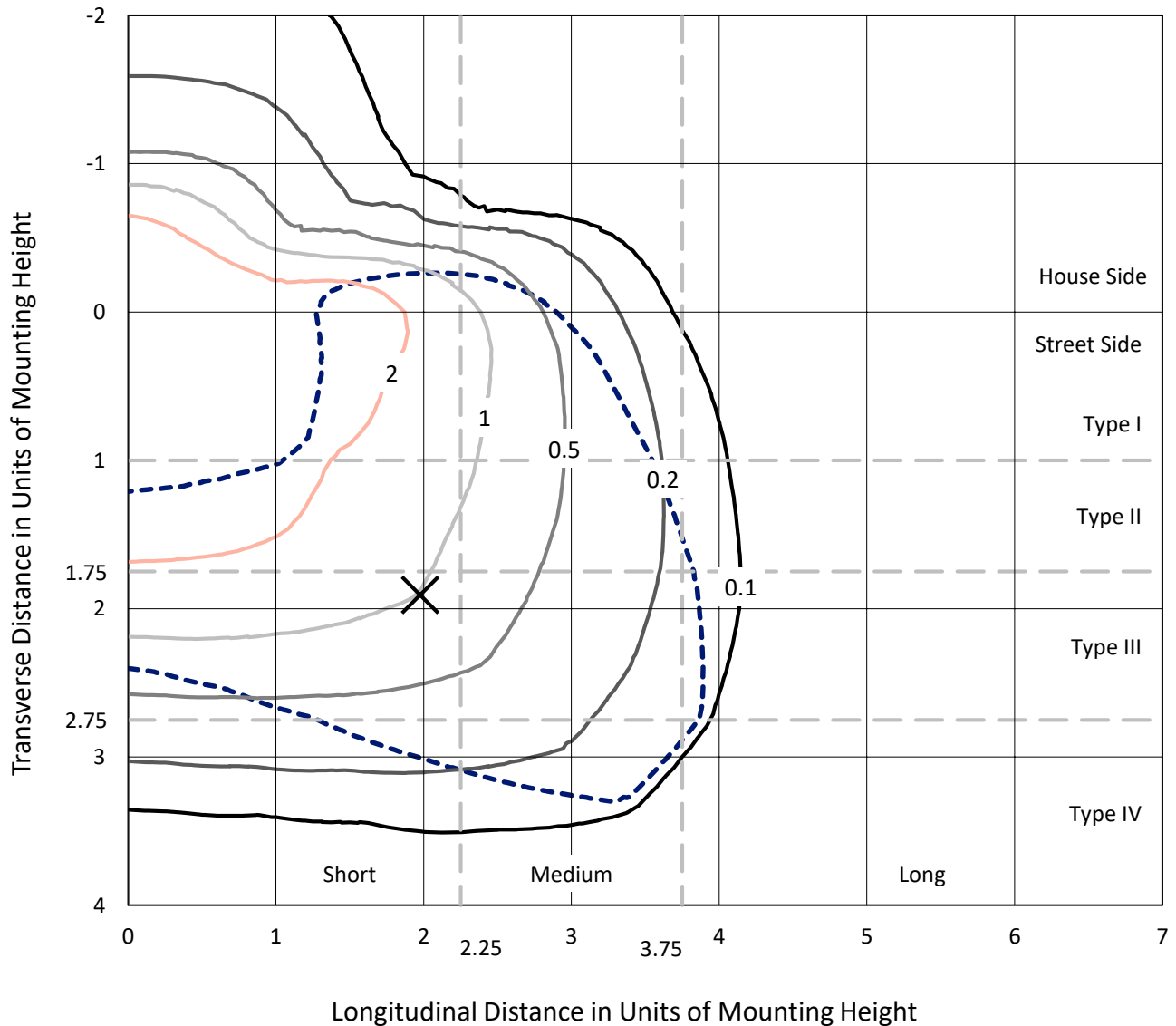
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

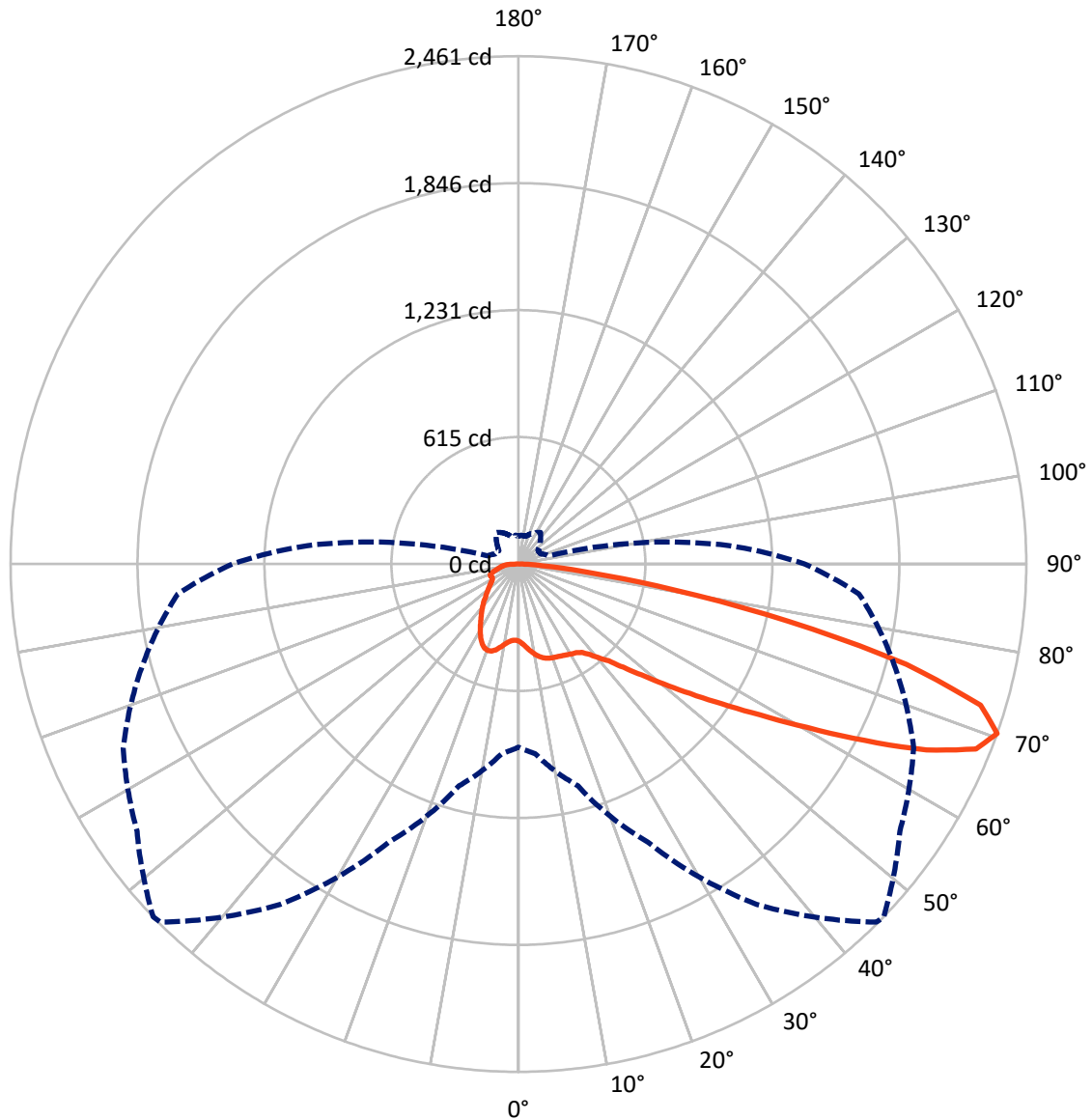
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.7	0.0	840.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2827.3	0.0	2827.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	3668.0	0.0	3668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	1.0
10°-20°	126.9	3.5
20°-30°	211.6	5.8
30°-40°	300.3	8.2
40°-50°	441.7	12.0
50°-60°	748.1	20.4
60°-70°	1061.9	29.0
70°-80°	645.1	17.6
80°-90°	94.1	2.6
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°	3668.0	100.0
0°-180°	3668.0	100.0

Coefficient of Utilization



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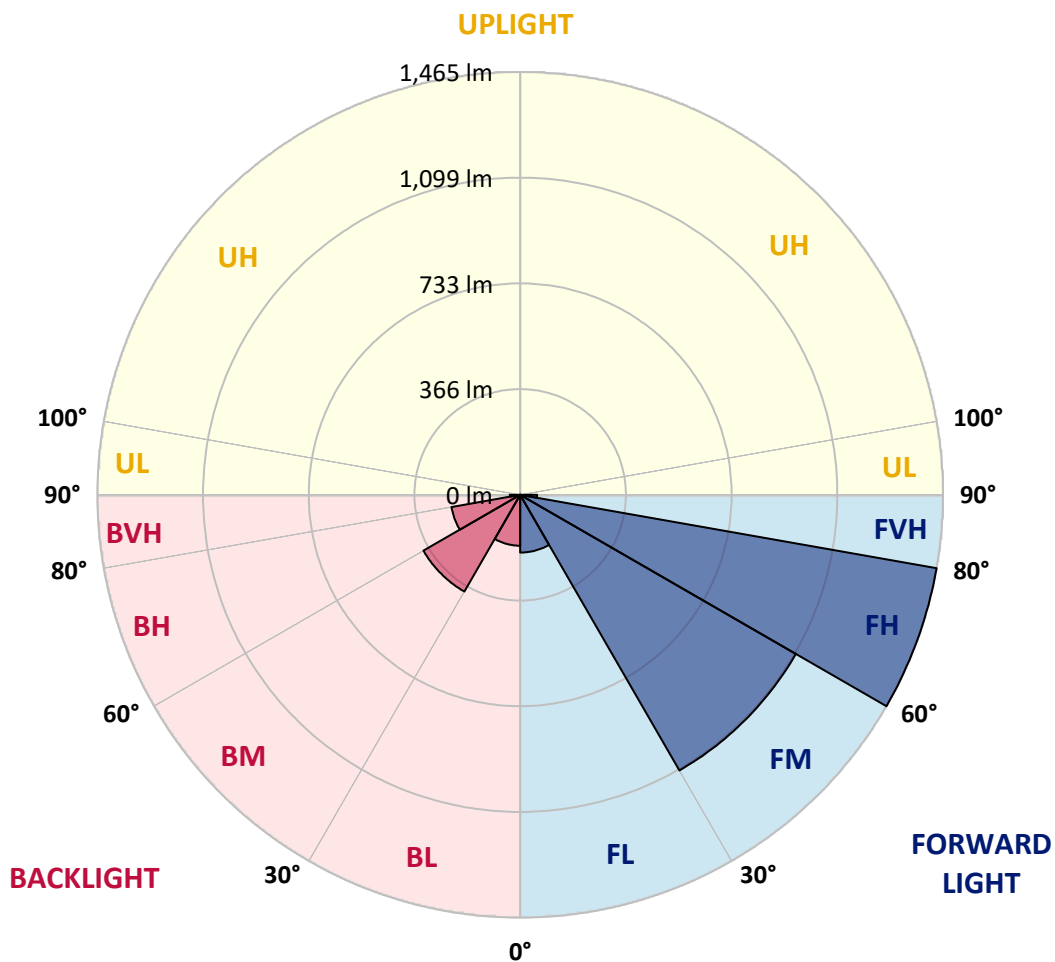
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.1	5.5			
FM	(30°-60°)	1103.2	30.1			
FH	(60°-80°)	1465.3	39.9			G1/1800
FVH	(80°-90°)	58.6	1.6			G1/100
BL	(0°-30°)	176.5	4.8	B1/500		
BM	(30°-60°)	387.0	10.6	B1/1000		
BH	(60°-80°)	241.7	6.6	B1/500		G1/500
BVH	(80°-90°)	35.5	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7
2.5°	392.4	392.7	393.2	391.9	388.4	387.4	387.0	383.4	381.0	377.5	374.5
5°	423.8	424.0	423.3	419.8	412.0	406.2	405.7	397.4	389.9	381.9	375.8
7.5°	456.5	456.9	454.5	447.9	437.0	426.9	426.3	415.0	403.6	391.4	382.4
10°	485.5	484.0	480.1	470.9	457.9	445.6	445.1	433.3	420.1	405.5	393.4
12.5°	504.9	503.6	498.6	487.3	473.1	461.8	460.8	449.9	437.1	421.0	406.6
15°	515.5	516.4	509.6	496.8	483.0	473.5	472.6	464.8	453.4	437.2	420.6
17.5°	516.9	517.7	511.2	498.5	487.2	480.6	480.3	475.1	466.8	451.3	434.0
20°	508.9	509.4	504.0	493.6	486.2	484.2	484.0	481.8	475.6	461.8	445.0
22.5°	497.2	497.6	493.7	486.2	483.7	486.8	487.7	486.8	482.4	469.5	453.7
25°	494.3	494.1	490.1	482.4	484.5	491.2	492.3	492.7	489.7	478.4	464.7
27.5°	508.3	507.4	499.7	487.4	488.8	496.8	498.3	502.0	500.1	490.2	477.3
30°	548.6	547.1	531.4	506.5	499.7	503.9	505.8	511.5	511.9	503.6	494.0
32.5°	616.6	614.7	586.6	542.2	518.2	511.0	512.8	521.4	526.1	519.7	509.3
35°	702.6	700.4	663.5	602.8	549.1	524.7	526.0	532.9	542.2	533.1	519.3
37.5°	792.2	787.1	751.5	674.1	598.1	554.0	554.0	554.8	559.2	540.4	531.1
40°	881.3	876.2	844.1	757.9	661.7	600.0	597.1	577.7	574.2	558.0	554.8
42.5°	964.2	962.7	943.7	852.7	736.2	645.3	641.3	608.3	609.1	599.0	599.1
45°	1052.3	1052.3	1036.9	948.4	823.1	718.1	714.1	665.6	673.1	668.4	679.6
47.5°	1124.2	1126.5	1124.4	1048.0	924.1	810.7	803.4	744.9	766.0	781.9	814.4
50°	1197.7	1201.2	1201.6	1157.4	1046.3	920.6	912.3	850.2	897.3	943.0	1006.9
52.5°	1304.2	1312.1	1280.6	1266.5	1195.9	1051.2	1043.0	985.6	1064.2	1128.4	1238.5
55°	1403.0	1396.1	1373.7	1382.4	1356.1	1199.8	1193.6	1143.3	1250.3	1333.6	1476.6
57.5°	1456.5	1456.0	1478.6	1516.3	1528.8	1383.1	1377.9	1329.0	1460.0	1522.7	1700.2
60°	1519.3	1520.1	1576.1	1661.6	1713.3	1611.3	1609.0	1571.9	1663.8	1699.1	1875.5
62.5°	1528.1	1543.9	1640.3	1787.4	1886.1	1877.9	1882.9	1790.7	1846.0	1840.0	2006.4
65°	1427.0	1447.8	1622.3	1825.4	2057.8	2169.5	2174.1	2010.7	1989.7	1960.4	2053.3
67.5°	1219.9	1250.8	1440.3	1742.7	2114.4	2385.0	2391.6	2181.3	2109.0	2001.2	1940.5
70°	887.7	922.0	1112.8	1488.4	2013.5	2454.0	2461.4	2256.7	2113.5	1885.1	1656.6
72.5°	536.3	563.1	720.4	1095.7	1699.4	2328.4	2341.6	2161.1	1929.6	1596.7	1223.3
75°	235.5	253.1	348.3	631.4	1216.6	1926.5	1942.9	1849.8	1567.8	1160.4	723.0
77.5°	100.3	105.3	142.9	274.3	687.8	1316.4	1339.0	1351.6	1063.7	631.4	305.5
80°	62.5	64.5	80.8	124.1	321.9	739.4	763.7	795.2	528.2	232.1	106.7
82.5°	38.0	40.3	53.7	75.1	167.6	335.2	346.8	369.1	205.0	100.3	55.2
85°	22.8	24.5	32.9	47.4	95.4	131.8	131.7	145.6	96.5	64.5	29.1
87.5°	10.9	12.2	17.6	24.6	48.1	49.5	46.3	52.5	58.6	42.3	14.7
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°	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7
2.5°	373.4	372.9	371.3	370.1	369.8	369.1	368.4	368.8	369.3	369.4	369.4
5°	373.3	371.9	369.8	368.9	370.1	371.6	373.4	376.0	377.5	378.6	379.3
7.5°	379.3	376.7	374.3	373.8	376.1	380.1	384.4	389.6	393.3	395.8	396.3
10°	389.4	386.1	383.7	384.2	388.3	394.0	400.1	406.8	412.4	415.7	416.0
12.5°	400.9	397.8	395.5	397.7	404.3	411.4	417.6	423.5	428.6	431.9	431.9
15°	414.2	412.0	409.3	414.2	423.3	429.6	432.2	435.1	437.8	440.4	439.9
17.5°	427.0	424.9	423.5	429.3	438.7	441.6	439.9	437.7	437.7	439.1	439.3
20°	438.1	436.2	437.1	442.7	447.6	444.6	438.1	431.3	428.6	429.3	430.1
22.5°	447.8	446.9	449.5	452.2	448.6	438.1	426.0	416.9	413.5	413.2	413.5
25°	459.1	458.9	462.2	457.4	441.9	422.4	406.2	397.3	395.4	396.9	399.4
27.5°	473.1	474.5	476.1	458.7	428.1	398.7	382.2	376.1	378.0	381.6	384.0
30°	491.1	494.8	491.3	455.5	408.2	371.6	355.9	354.1	359.3	364.4	366.9
32.5°	508.5	514.4	505.9	447.4	382.6	342.8	330.6	330.1	336.4	341.4	345.0
35°	522.6	534.2	516.8	431.2	353.0	316.3	307.4	304.0	306.3	312.2	316.2
37.5°	540.9	560.4	524.3	406.5	320.9	294.5	284.1	276.3	274.3	276.7	278.7
40°	574.4	600.2	527.8	371.9	289.5	272.6	262.1	250.7	242.8	237.0	237.1
42.5°	629.1	652.0	525.6	330.0	260.5	251.3	239.4	226.2	213.4	200.3	199.3
45°	718.0	729.1	518.8	285.6	235.0	229.0	217.8	204.6	187.5	172.7	171.3
47.5°	860.2	835.8	508.3	246.8	212.5	210.0	199.7	184.5	166.5	154.5	153.5
50°	1054.2	989.8	503.1	215.9	192.7	193.4	185.0	169.0	151.9	143.1	142.1
52.5°	1286.2	1169.2	513.0	192.1	176.7	179.4	173.1	158.0	143.7	136.8	135.8
55°	1526.8	1355.0	523.7	174.7	161.7	166.8	164.7	152.3	139.3	132.9	132.1
57.5°	1732.8	1493.7	502.4	160.7	148.2	156.3	158.2	148.6	137.1	131.3	130.3
60°	1862.5	1549.5	446.4	147.5	137.6	147.9	154.4	147.6	138.0	137.5	136.7
62.5°	1924.0	1544.6	362.4	137.1	130.9	144.2	157.2	153.3	148.0	152.5	152.9
65°	1896.4	1470.8	269.9	130.2	126.2	145.6	165.4	163.9	150.9	155.4	156.0
67.5°	1714.6	1294.7	199.8	124.1	120.9	149.5	180.5	167.5	145.2	148.5	146.5
70°	1385.8	1026.4	154.1	117.4	115.5	149.0	187.3	165.3	139.1	139.8	134.4
72.5°	955.6	699.9	125.4	111.1	107.7	135.8	182.5	160.0	133.9	128.2	121.0
75°	519.7	375.7	106.6	104.6	94.0	119.3	173.7	156.3	129.3	121.6	117.6
77.5°	204.5	155.9	92.5	95.7	82.2	105.3	163.9	149.1	122.9	112.8	110.8
80°	83.5	79.6	76.7	82.7	70.7	92.1	152.1	140.7	115.2	104.7	100.7
82.5°	47.3	49.5	59.6	65.3	57.4	84.9	146.5	133.9	106.1	93.8	89.0
85°	24.2	29.0	41.5	46.8	42.2	72.2	134.9	117.2	85.1	71.8	72.2
87.5°	11.7	16.2	26.2	29.4	27.4	52.2	100.8	85.0	66.3	52.5	50.8
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)