

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: P348627

Luminaire Tested: **ARCH-N-PA1-30-830-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348627  
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-PA1-30-830-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3486 lumens  
Efficiency: N/A  
Efficacy: 112.5 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

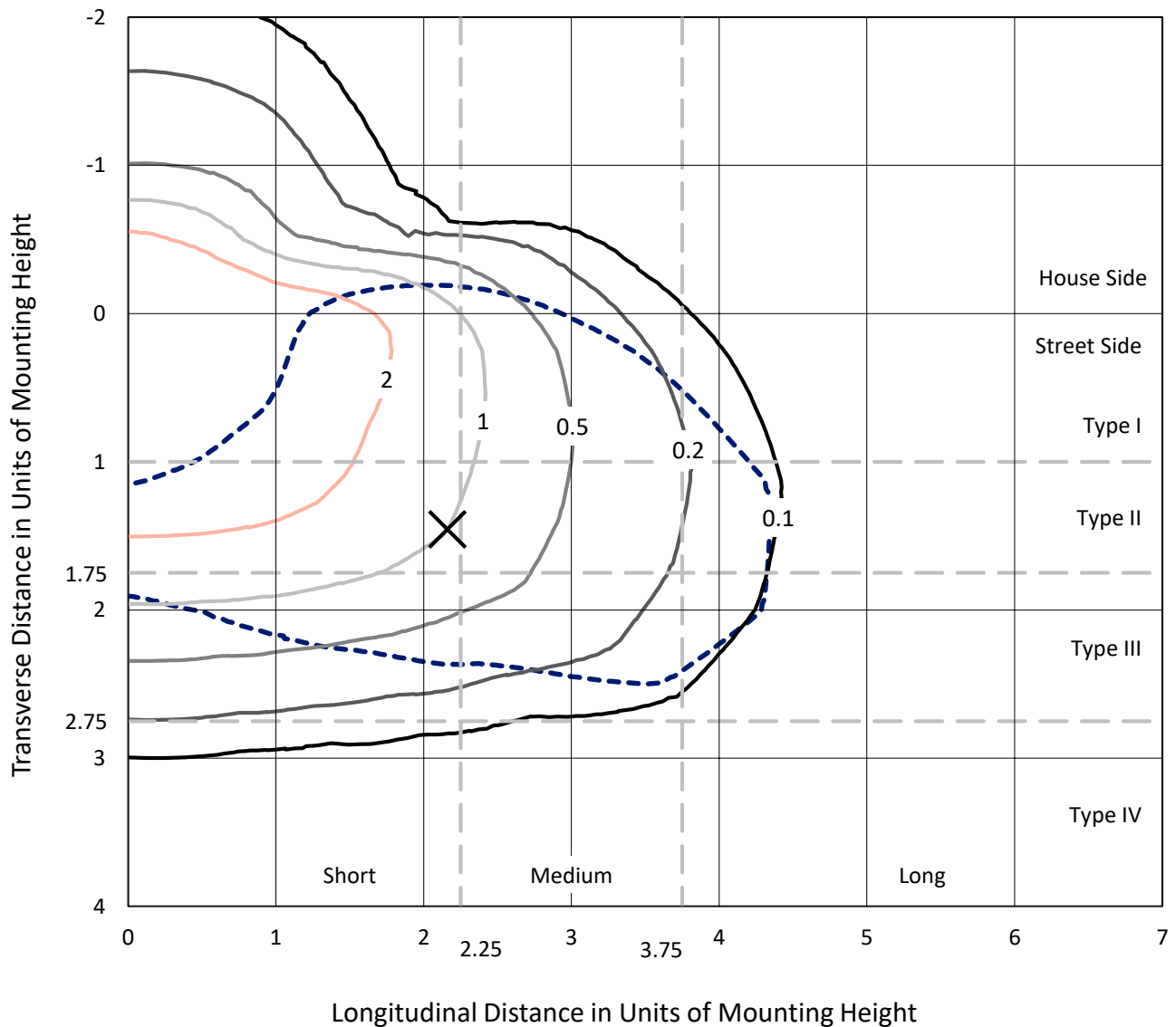


REPORT NUMBER: P348627

CATALOG NUMBER: ARCH-N-PA1-30-830-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

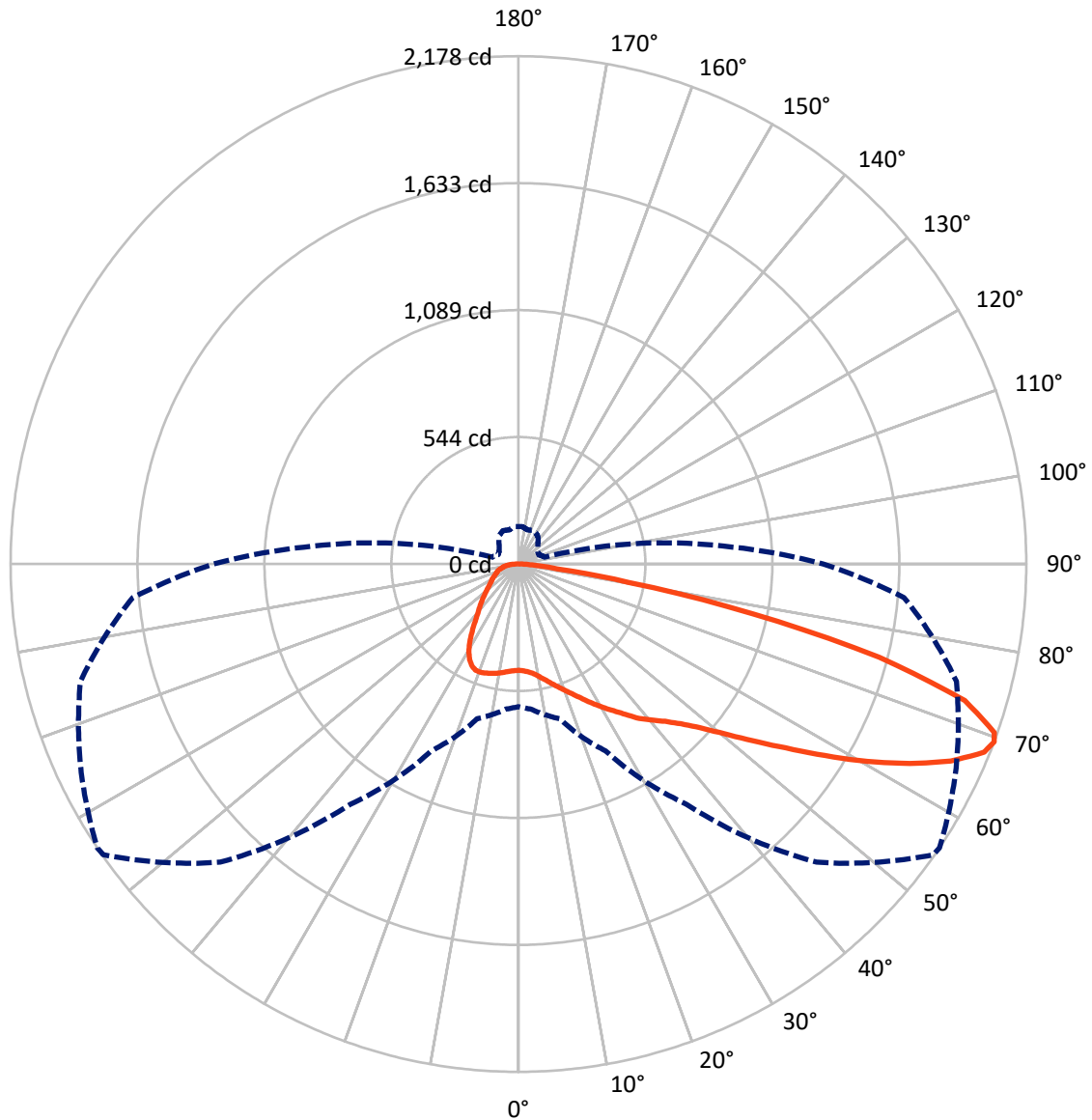


Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348627

CATALOG NUMBER: ARCH-N-PA1-30-830-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P348627

CATALOG NUMBER: ARCH-N-PA1-30-830-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	776.3	0.0	776.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	2709.7	0.0	2709.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	3486.0	0.0	3486.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.8	1.3
10°-20°	143.9	4.1
20°-30°	251.3	7.2
30°-40°	360.9	10.4
40°-50°	499.5	14.3
50°-60°	731.8	21.0
60°-70°	892.2	25.6
70°-80°	493.3	14.2
80°-90°	68.3	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°	3486.0	100.0
0°-180°	3486.0	100.0



REPORT NUMBER: P348627

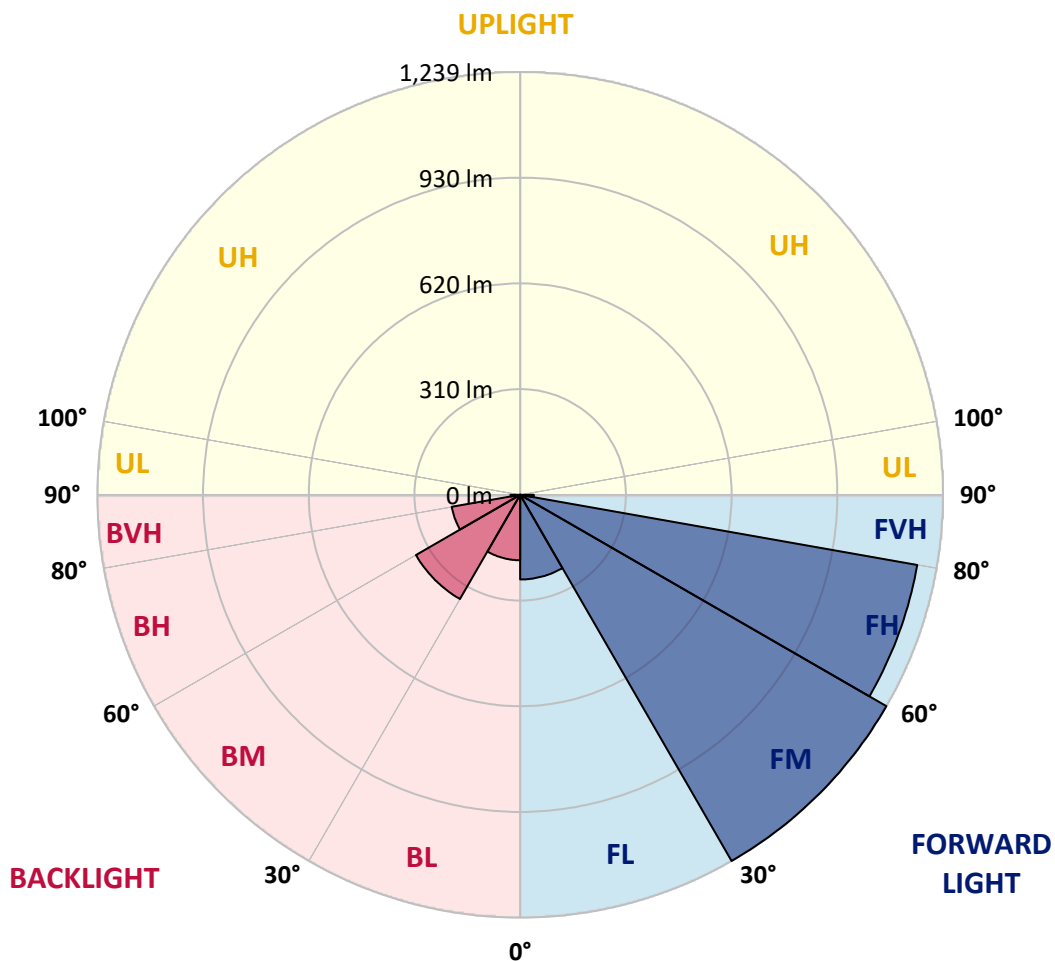
CATALOG NUMBER: ARCH-N-PA1-30-830-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.1	7.1			
FM	(30°-60°)	1239.4	35.6			
FH	(60°-80°)	1181.9	33.9			G1/1800
FVH	(80°-90°)	40.2	1.2			G1/100
BL	(0°-30°)	191.8	5.5	B1/500		
BM	(30°-60°)	352.8	10.1	B1/1000		
BH	(60°-80°)	203.6	5.8	B1/500		G1/500
BVH	(80°-90°)	28.1	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





REPORT NUMBER: P348627

CATALOG NUMBER: ARCH-N-PA1-30-830-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7
2.5°	458.6	459.1	458.7	459.7	458.6	459.3	458.7	458.7	458.4	457.3	456.1
5°	465.8	466.8	466.2	467.2	465.8	466.1	465.0	465.0	463.9	461.6	459.2
7.5°	477.1	478.2	477.7	478.7	476.9	476.9	475.4	475.3	473.2	469.4	466.7
10°	490.6	492.0	491.5	493.0	491.5	492.0	490.6	490.6	487.7	482.4	478.9
12.5°	510.1	511.9	510.6	510.5	509.9	510.9	509.7	509.4	506.8	499.6	494.8
15°	536.3	538.2	535.5	535.2	531.9	531.5	531.5	531.2	529.5	520.8	512.9
17.5°	566.5	567.1	564.7	560.8	556.5	553.7	553.4	554.3	554.3	544.2	531.6
20°	596.0	597.1	595.2	590.8	585.3	581.2	578.4	580.3	580.2	568.1	550.3
22.5°	628.2	630.7	627.8	622.3	615.8	611.3	606.2	607.9	608.0	593.2	568.5
25°	669.9	667.6	665.8	658.0	648.7	644.0	639.4	641.0	640.6	620.3	587.4
27.5°	706.7	707.2	704.8	696.5	685.8	675.5	675.3	676.3	674.5	648.4	605.1
30°	749.6	749.8	746.5	739.0	727.4	714.1	710.9	712.7	708.9	675.0	623.9
32.5°	792.2	793.4	789.7	780.7	771.3	755.1	748.9	750.1	740.5	702.3	643.2
35°	829.6	831.3	830.1	824.1	813.9	799.9	792.5	791.8	779.9	735.7	668.8
37.5°	867.7	869.2	867.9	862.8	858.8	844.0	840.0	840.0	819.4	769.8	701.3
40°	906.8	909.2	907.6	900.7	897.2	890.5	881.0	878.7	856.4	810.7	754.4
42.5°	943.2	946.3	952.6	948.5	941.4	942.3	923.3	922.1	905.7	871.3	821.1
45°	994.8	999.4	1010.0	1006.8	1005.4	1000.1	977.4	976.3	970.1	952.7	903.8
47.5°	1051.1	1057.4	1076.5	1077.1	1092.6	1082.6	1051.7	1048.0	1049.5	1050.2	1004.8
50°	1103.0	1109.9	1141.2	1156.0	1192.5	1194.7	1145.3	1141.9	1147.6	1164.2	1122.5
52.5°	1144.5	1153.1	1192.3	1237.9	1300.5	1318.2	1260.5	1257.9	1262.1	1290.7	1255.5
55°	1174.8	1184.2	1226.8	1309.9	1409.9	1441.2	1393.0	1390.6	1393.3	1429.7	1400.3
57.5°	1181.9	1184.2	1246.1	1358.5	1502.2	1577.5	1555.3	1550.5	1537.5	1569.2	1560.0
60°	1148.7	1157.8	1230.2	1375.5	1573.7	1711.9	1724.9	1718.8	1682.5	1708.4	1701.0
62.5°	1081.2	1097.5	1171.0	1349.6	1601.6	1821.6	1891.2	1884.0	1821.3	1838.1	1802.3
65°	970.9	977.9	1055.1	1260.1	1566.1	1891.9	2039.5	2035.9	1957.0	1930.7	1821.0
67.5°	773.7	786.8	852.4	1073.1	1420.7	1883.6	2154.2	2153.8	2045.6	1965.0	1754.6
69°	611.3	624.8	687.3	884.0	1257.1	1807.8	2173.4	2177.6	2070.6	1944.1	1659.8
70°	487.3	503.1	545.9	744.6	1111.9	1707.9	2157.4	2165.0	2065.8	1909.7	1572.2
72.5°	207.4	220.1	250.6	383.8	677.7	1275.4	1972.6	2001.2	1954.5	1747.8	1299.4
75°	90.5	94.5	108.3	156.5	300.8	694.1	1545.3	1598.2	1671.2	1477.3	967.9
77.5°	66.3	68.0	75.5	91.9	135.0	262.2	993.7	1024.5	1205.2	1075.0	593.7
80°	51.3	52.5	58.4	67.5	88.1	106.0	453.2	479.6	677.7	552.2	247.3
82.5°	40.8	41.7	45.8	49.7	60.9	64.2	150.5	166.9	250.1	152.5	65.4
85°	37.9	38.9	40.4	36.3	39.0	37.7	65.1	68.1	75.5	59.9	27.4
87.5°	17.2	20.3	40.0	28.2	20.8	16.6	26.7	27.9	31.3	31.5	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348627

CATALOG NUMBER: ARCH-N-PA1-30-830-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7
2.5°	456.8	456.5	457.1	455.6	457.4	457.3	456.7	456.9	458.1	458.0	458.1
5°	459.6	459.3	460.1	459.0	461.1	461.9	462.0	463.1	464.4	464.7	464.7
7.5°	466.6	466.6	466.9	465.5	466.9	466.8	466.2	467.3	468.6	468.7	468.6
10°	478.6	478.7	478.1	474.4	473.2	469.9	466.9	467.0	468.7	470.0	470.4
12.5°	493.7	493.2	490.6	483.7	478.7	472.1	469.0	468.8	470.5	471.6	472.0
15°	511.0	509.7	502.8	491.6	482.8	476.3	471.2	470.0	469.1	467.9	468.0
17.5°	527.3	524.3	512.9	497.4	488.0	479.4	469.7	461.9	456.5	453.3	452.4
20°	543.9	538.0	521.6	502.8	490.9	475.2	456.5	440.6	430.8	426.2	425.4
22.5°	559.0	549.5	529.6	508.5	488.6	461.0	431.6	408.5	394.9	388.7	389.2
25°	573.8	560.6	538.0	512.4	477.1	436.0	397.0	368.7	352.8	346.0	345.7
27.5°	586.8	571.7	547.1	509.2	455.6	400.5	356.1	328.4	315.2	309.4	308.4
30°	601.7	585.8	559.3	496.8	424.2	359.4	316.1	296.6	287.3	281.4	280.3
32.5°	619.8	604.9	569.2	474.4	383.9	316.6	284.9	271.3	262.8	256.2	255.0
35°	646.2	630.1	571.7	442.2	339.7	282.7	261.9	248.0	236.5	227.9	227.1
37.5°	679.3	661.7	566.0	400.5	296.9	260.7	242.8	225.6	210.6	198.6	196.7
40°	727.1	700.5	550.0	352.5	265.3	243.8	224.2	204.6	186.0	172.0	169.2
42.5°	784.5	746.0	525.5	304.7	242.1	226.6	205.7	181.5	163.7	153.7	152.3
45°	857.6	793.3	491.5	262.9	219.3	209.4	185.8	163.4	152.4	145.1	143.9
47.5°	940.9	846.4	455.9	228.9	200.0	193.3	169.8	155.4	146.6	140.9	139.8
50°	1043.3	906.3	418.0	201.0	180.5	174.0	162.2	151.0	144.0	139.5	138.5
52.5°	1158.9	973.9	390.8	179.1	164.4	159.7	158.3	148.6	142.9	139.5	138.5
55°	1283.3	1042.7	361.4	160.6	150.5	151.8	155.6	148.8	144.9	140.9	139.3
57.5°	1407.8	1113.8	328.6	144.9	139.4	145.9	153.8	149.3	146.0	142.1	140.6
60°	1506.3	1158.9	277.8	131.9	130.7	139.4	149.5	145.7	141.5	141.6	141.3
62.5°	1552.3	1156.5	221.7	120.2	121.9	130.7	142.5	140.0	136.5	141.2	141.6
65°	1526.5	1098.8	172.6	109.6	112.5	121.5	135.3	137.3	138.5	147.5	148.7
67.5°	1418.1	986.7	133.7	100.4	104.0	115.3	136.1	149.5	151.1	160.6	160.4
69°	1306.1	881.5	116.1	95.6	99.8	116.8	145.4	157.3	151.4	161.5	160.1
70°	1212.2	798.2	106.8	92.3	97.9	119.6	151.7	157.2	149.6	158.3	155.9
72.5°	933.6	574.3	90.5	86.3	91.4	114.4	153.5	153.7	145.4	147.1	143.0
75°	640.3	362.9	79.0	78.2	81.5	103.2	147.7	146.9	134.5	132.1	128.7
77.5°	353.1	184.3	67.1	70.4	72.7	91.4	134.3	133.1	122.9	117.8	116.6
80°	136.2	80.7	56.7	62.6	64.0	79.1	117.7	116.6	108.1	101.6	99.8
82.5°	51.4	42.3	46.8	54.2	53.7	65.3	99.7	99.1	90.8	81.3	78.4
85°	23.8	25.3	37.1	44.7	41.2	48.4	79.7	80.8	70.7	59.4	59.4
87.5°	10.1	14.2	26.3	33.7	27.7	32.7	58.5	55.8	51.3	35.5	33.4
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)