

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: P348919

Luminaire Tested: **ARCH-N-PA1-19-727-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2518 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

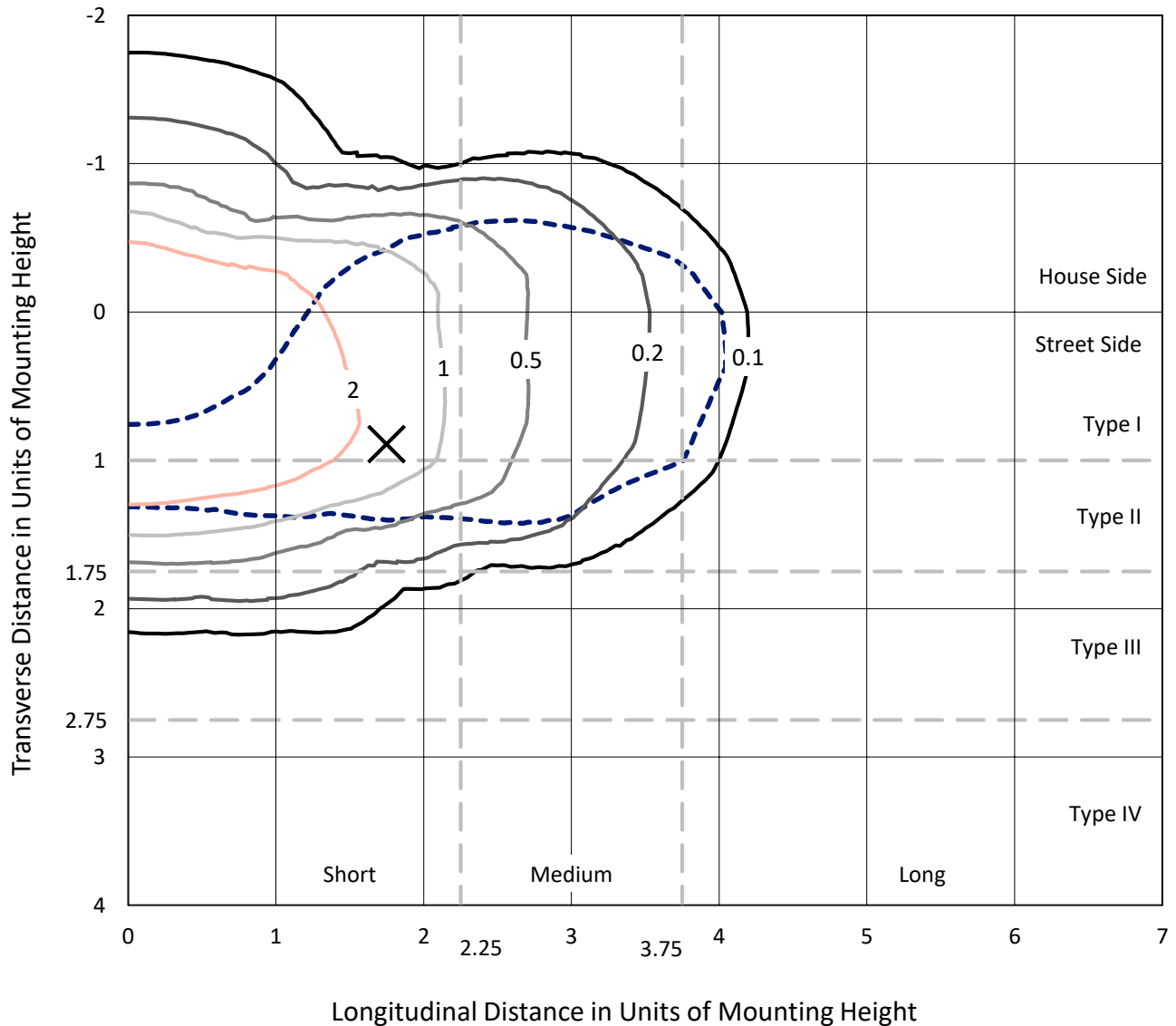
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348919
 CATALOG NUMBER: ARCH-N-PA1-19-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

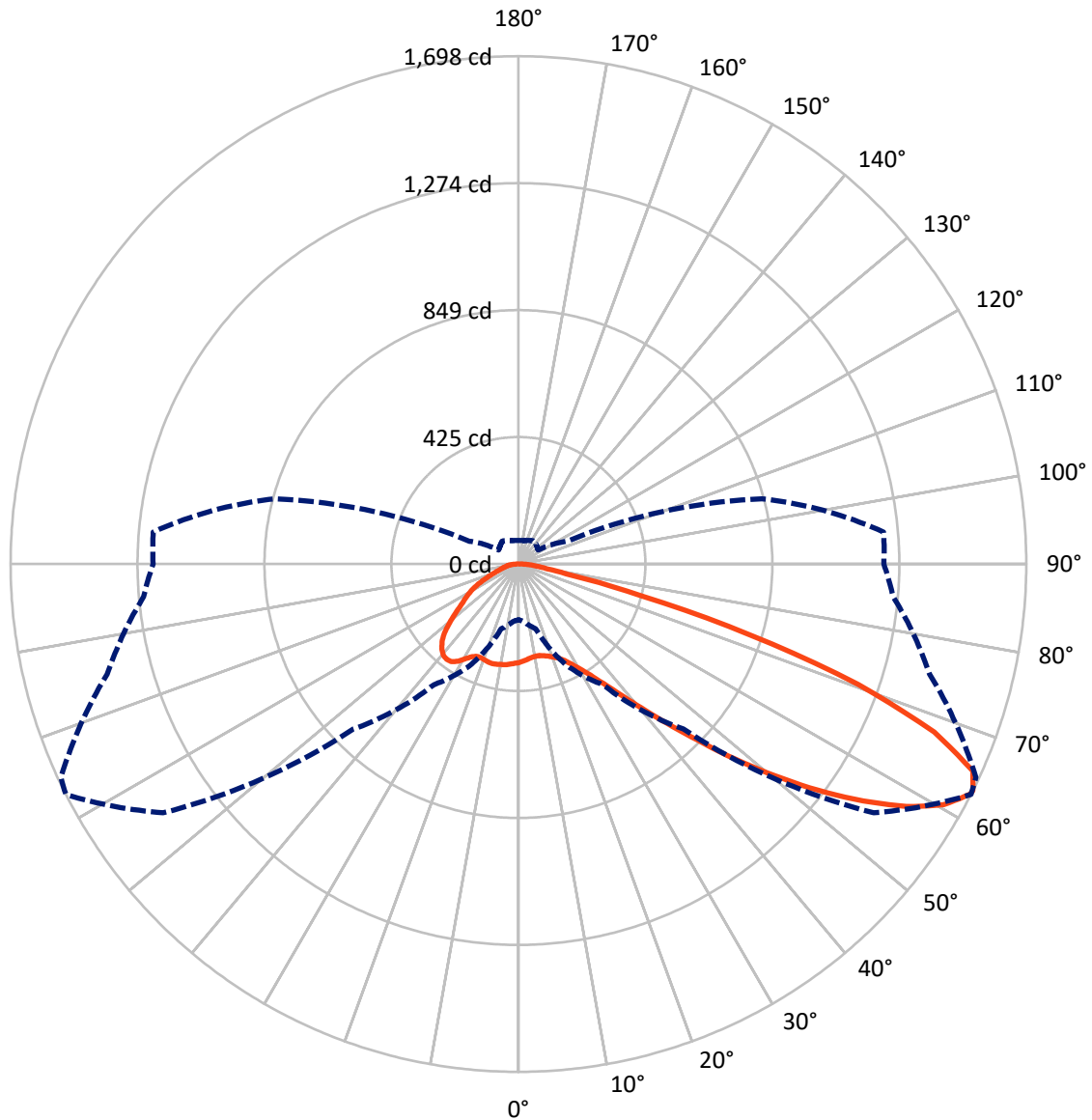


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P348919

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P348919

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	718.9	0.0	718.9
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1799.1	0.0	1799.1
	% Fixture	71.5	0.0	71.5
Total	Lumens	2518.0	0.0	2518.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	1.2
10°-20°	92.3	3.7
20°-30°	162.1	6.4
30°-40°	273.2	10.9
40°-50°	478.6	19.0
50°-60°	618.6	24.6
60°-70°	535.5	21.3
70°-80°	278.0	11.0
80°-90°	48.4	1.9
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°	2518.0	100.0
0°-180°	2518.0	100.0



REPORT NUMBER: P348919

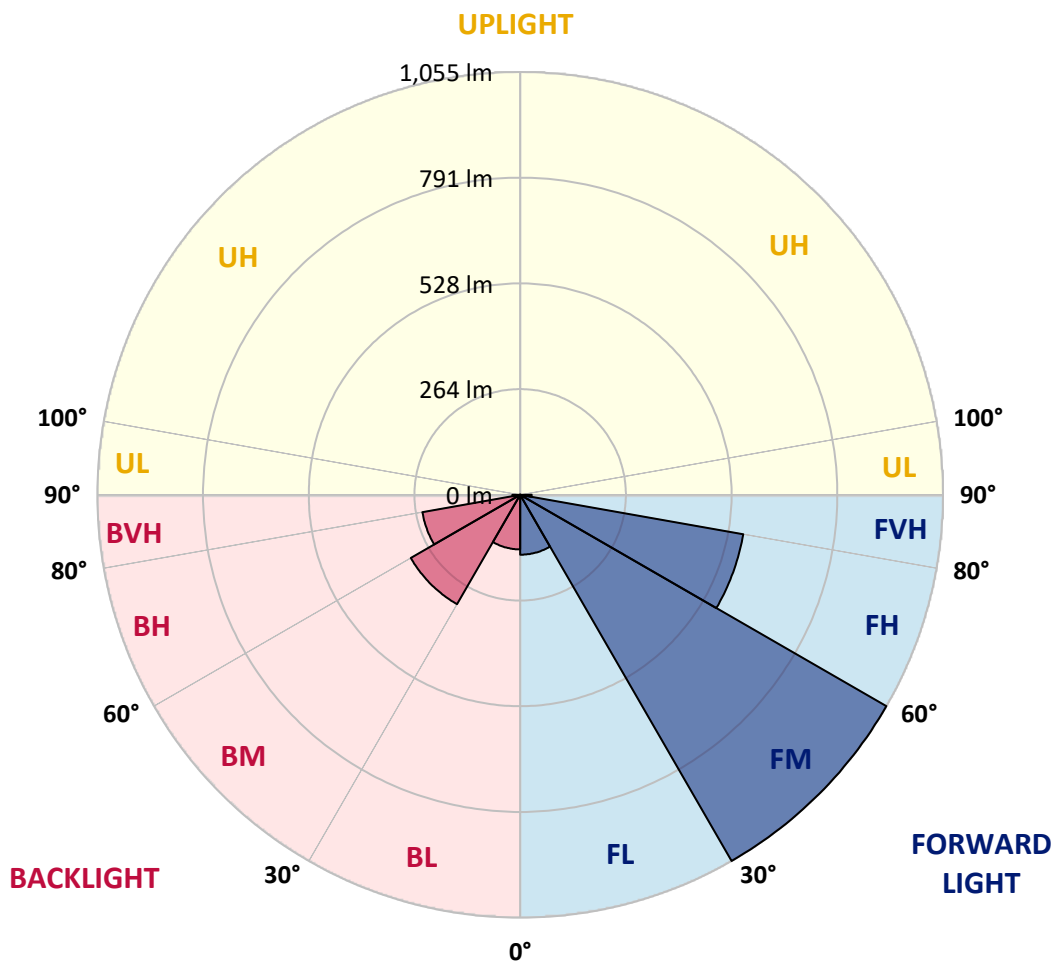
CATALOG NUMBER: ARCH-N-PA1-19-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	149.5	5.9			
FM	(30°-60°)	1055.3	41.9			
FH	(60°-80°)	565.5	22.5			G0/660
FVH	(80°-90°)	28.8	1.1			G1/100
BL	(0°-30°)	136.2	5.4	B1/500		
BM	(30°-60°)	315.1	12.5	B1/1000		
BH	(60°-80°)	248.0	9.8	B1/500		G1/500
BVH	(80°-90°)	19.6	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 II Short





REPORT NUMBER: P348919

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7
2.5°	321.9	321.0	322.6	323.3	323.1	324.5	324.5	324.7	324.7	325.9	327.1
5°	312.5	312.0	313.7	314.8	315.8	317.9	319.3	320.0	320.7	322.4	325.2
7.5°	303.5	302.8	305.2	306.1	307.5	310.6	313.9	315.8	316.7	320.3	324.3
10°	296.2	296.0	297.9	298.8	300.5	304.9	309.6	313.7	314.4	319.1	322.8
12.5°	292.7	292.2	294.3	295.5	298.3	303.8	309.2	314.1	315.3	320.7	324.0
15°	295.5	296.0	297.9	298.1	301.4	307.1	313.2	318.1	319.3	324.7	327.1
17.5°	308.9	308.7	309.9	309.4	310.6	313.4	320.0	324.0	325.4	329.4	331.3
20°	333.2	332.5	333.5	330.4	325.2	323.8	327.8	332.3	332.7	335.1	333.9
22.5°	370.2	370.9	368.8	361.0	348.5	342.6	340.0	341.5	343.1	342.9	339.3
25°	418.5	420.9	416.9	403.2	382.2	368.6	359.1	357.0	358.2	354.9	349.5
27.5°	481.9	483.8	475.1	453.9	425.6	405.3	386.5	379.2	379.2	372.1	362.2
30°	551.7	552.8	538.9	512.1	479.3	449.2	421.3	407.2	406.0	392.1	376.6
32.5°	636.5	633.2	616.7	583.5	542.2	500.8	464.9	443.5	441.1	420.2	400.4
35°	746.1	746.1	711.9	674.0	623.8	571.0	523.9	490.6	488.3	464.5	438.8
37.5°	865.1	864.6	833.7	781.4	721.3	656.8	593.8	552.4	547.0	521.5	492.8
40°	983.6	979.6	954.6	904.9	840.8	767.1	680.3	632.0	629.4	593.1	557.1
42.5°	1070.3	1066.6	1054.8	1021.6	979.4	926.1	792.7	727.5	723.7	678.0	633.9
45°	1118.2	1112.8	1111.1	1111.6	1116.3	1116.1	931.5	840.3	827.1	774.1	715.4
47.5°	1107.3	1094.6	1111.6	1155.2	1228.5	1276.5	1093.2	974.4	949.9	874.0	802.4
50°	1019.9	1013.8	1050.1	1138.9	1289.5	1402.4	1271.1	1113.7	1079.1	968.5	884.6
52.5°	866.5	878.3	923.1	1049.4	1278.4	1478.5	1432.8	1258.4	1210.3	1058.6	956.0
55°	689.8	704.6	767.8	901.6	1175.9	1479.4	1549.4	1398.6	1355.7	1151.6	1029.1
57.5°	501.9	522.9	601.9	724.6	996.1	1378.3	1606.9	1529.9	1480.8	1243.3	1100.5
60°	315.3	330.2	416.2	558.5	761.4	1155.2	1592.5	1635.0	1594.4	1329.8	1182.0
62.5°	203.1	210.2	247.4	398.7	530.9	847.2	1486.3	1695.3	1677.9	1408.7	1243.5
63°	186.2	192.3	224.1	368.6	492.3	780.5	1450.4	1698.4	1688.0	1423.6	1257.9
65°	133.1	139.7	156.2	253.3	363.4	523.6	1242.8	1669.8	1681.4	1448.3	1277.5
67.5°	105.1	107.2	114.8	153.9	257.8	297.4	836.3	1499.5	1550.1	1421.9	1248.5
70°	94.0	95.7	104.2	118.1	195.1	192.8	436.2	1205.6	1310.5	1331.9	1175.4
72.5°	82.0	83.2	93.6	111.2	148.9	147.3	189.7	810.6	938.1	1167.0	1074.3
75°	67.9	69.0	77.8	98.7	126.1	116.4	118.8	423.7	537.8	914.8	942.1
77.5°	55.8	56.6	63.9	79.4	111.0	89.8	91.9	178.2	261.3	623.5	744.0
80°	40.5	40.8	47.6	60.3	84.8	81.1	68.3	97.1	118.5	341.7	468.0
82.5°	28.3	28.5	35.6	42.2	58.4	80.8	49.7	65.0	71.2	157.4	208.3
85°	19.8	19.3	24.3	27.8	37.0	49.0	37.9	41.7	44.1	68.1	56.1
87.5°	8.7	8.5	13.7	14.8	18.6	22.6	30.2	21.9	23.3	33.0	17.7
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: P348919

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7
2.5°	327.3	328.3	329.7	331.8	333.5	334.2	335.6	335.8	337.9	336.0	336.3
5°	326.9	328.0	331.1	334.9	337.5	339.3	342.9	344.1	346.2	345.2	345.0
7.5°	326.1	328.3	332.7	338.2	342.2	345.2	348.5	350.7	352.8	352.3	351.8
10°	325.2	327.8	334.2	339.6	345.2	348.5	350.9	351.1	351.8	351.4	350.2
12.5°	325.9	328.7	336.0	341.5	347.4	349.7	349.0	345.5	342.4	339.8	339.3
15°	328.3	331.6	338.4	343.3	348.1	346.6	342.4	334.6	329.0	325.7	325.9
17.5°	330.6	333.5	338.6	342.6	345.0	340.8	334.2	327.6	325.0	322.4	321.9
20°	332.7	333.2	336.5	340.0	339.8	336.5	330.4	322.4	317.2	312.9	313.2
22.5°	336.0	334.2	334.4	336.5	339.1	336.0	321.7	307.8	300.0	295.0	294.8
25°	343.6	339.6	335.8	337.0	346.9	327.3	303.1	284.9	278.1	273.6	274.1
27.5°	354.0	348.5	341.0	347.4	352.8	310.1	276.4	257.8	253.1	248.4	249.6
30°	365.3	357.5	348.3	369.7	346.2	282.8	243.4	226.5	222.2	217.7	218.7
32.5°	385.5	374.0	362.0	396.6	330.9	249.6	208.8	193.5	190.6	187.8	188.1
35°	419.2	405.6	392.6	417.1	311.1	214.9	177.7	166.8	164.5	161.2	161.2
37.5°	469.0	447.5	440.7	427.9	284.0	182.6	154.8	147.5	142.6	138.1	138.1
40°	526.7	501.2	495.8	431.2	248.6	155.8	138.8	132.4	125.8	119.2	119.7
42.5°	596.9	562.5	550.0	426.8	205.7	138.6	127.5	120.2	113.8	108.2	107.2
45°	676.1	632.5	600.9	413.8	166.8	128.0	120.2	111.5	103.5	98.5	97.6
47.5°	756.9	708.4	645.9	387.9	139.5	120.4	115.2	103.0	97.3	94.0	93.6
50°	834.2	783.5	683.2	347.1	123.7	115.0	107.9	99.0	94.3	91.4	91.2
52.5°	902.8	855.0	714.5	304.9	113.1	110.5	104.6	97.1	92.1	89.5	89.1
55°	968.1	927.3	745.6	267.2	103.9	103.0	103.0	95.2	89.8	87.4	87.0
57.5°	1039.7	1009.5	777.0	239.7	95.7	97.6	100.9	93.1	87.2	85.1	84.8
60°	1122.4	1104.7	809.9	215.4	88.4	91.7	97.8	90.3	84.1	82.5	82.0
62.5°	1207.0	1207.5	838.5	186.2	82.2	87.2	94.3	87.7	81.3	80.1	79.9
63°	1221.9	1226.1	842.5	179.8	80.8	86.2	93.3	86.7	80.6	79.4	79.2
65°	1258.4	1277.0	845.8	152.9	75.6	82.7	89.8	83.7	77.5	77.3	76.8
67.5°	1249.7	1280.1	825.3	119.9	69.8	77.8	84.8	79.2	73.8	73.8	72.8
70°	1184.6	1204.4	762.3	92.6	65.3	72.6	78.9	74.5	68.8	69.3	67.4
72.5°	1085.0	1063.3	627.1	72.3	59.9	66.7	72.1	68.3	63.4	62.9	60.8
75°	938.8	867.4	449.2	58.4	53.3	58.9	64.6	61.7	57.3	54.7	54.2
77.5°	715.4	615.8	269.1	49.5	47.6	52.3	55.8	53.7	50.2	47.1	47.4
80°	426.1	355.1	121.4	41.9	41.2	44.8	47.6	46.0	43.6	39.8	38.9
82.5°	172.5	137.4	54.4	33.9	34.9	37.5	40.1	38.6	36.8	35.8	30.4
85°	44.8	43.1	31.8	25.5	26.9	28.0	31.6	31.6	29.9	24.5	22.6
87.5°	12.7	17.0	17.7	16.0	18.1	18.4	21.9	21.9	22.4	15.1	13.7
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)