

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: P348932

Luminaire Tested: **ARCH-N-PA1-10-740-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348932
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-PA1-10-740-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2245 lumens
Efficiency: N/A
Efficacy: 160.4 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

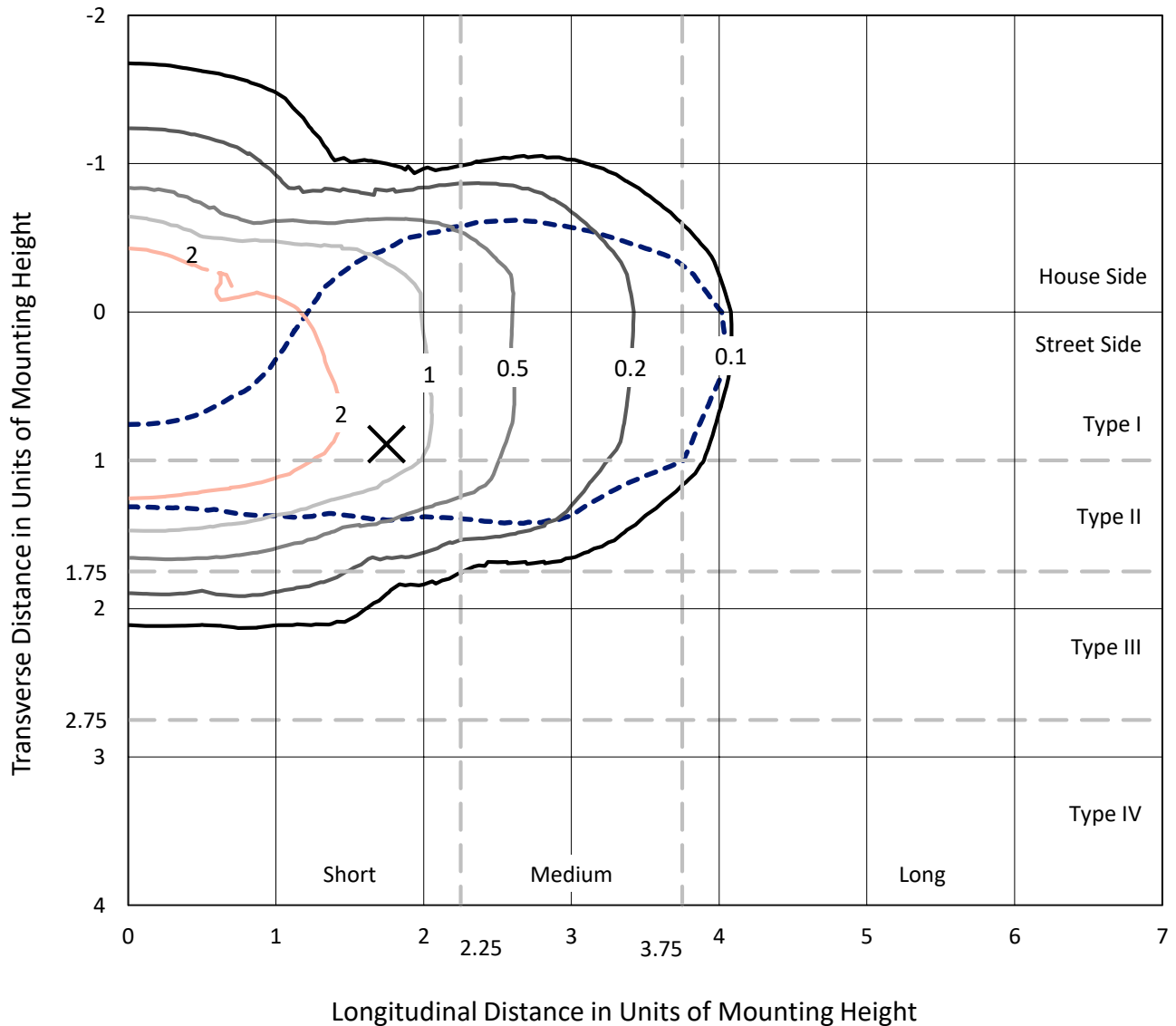
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

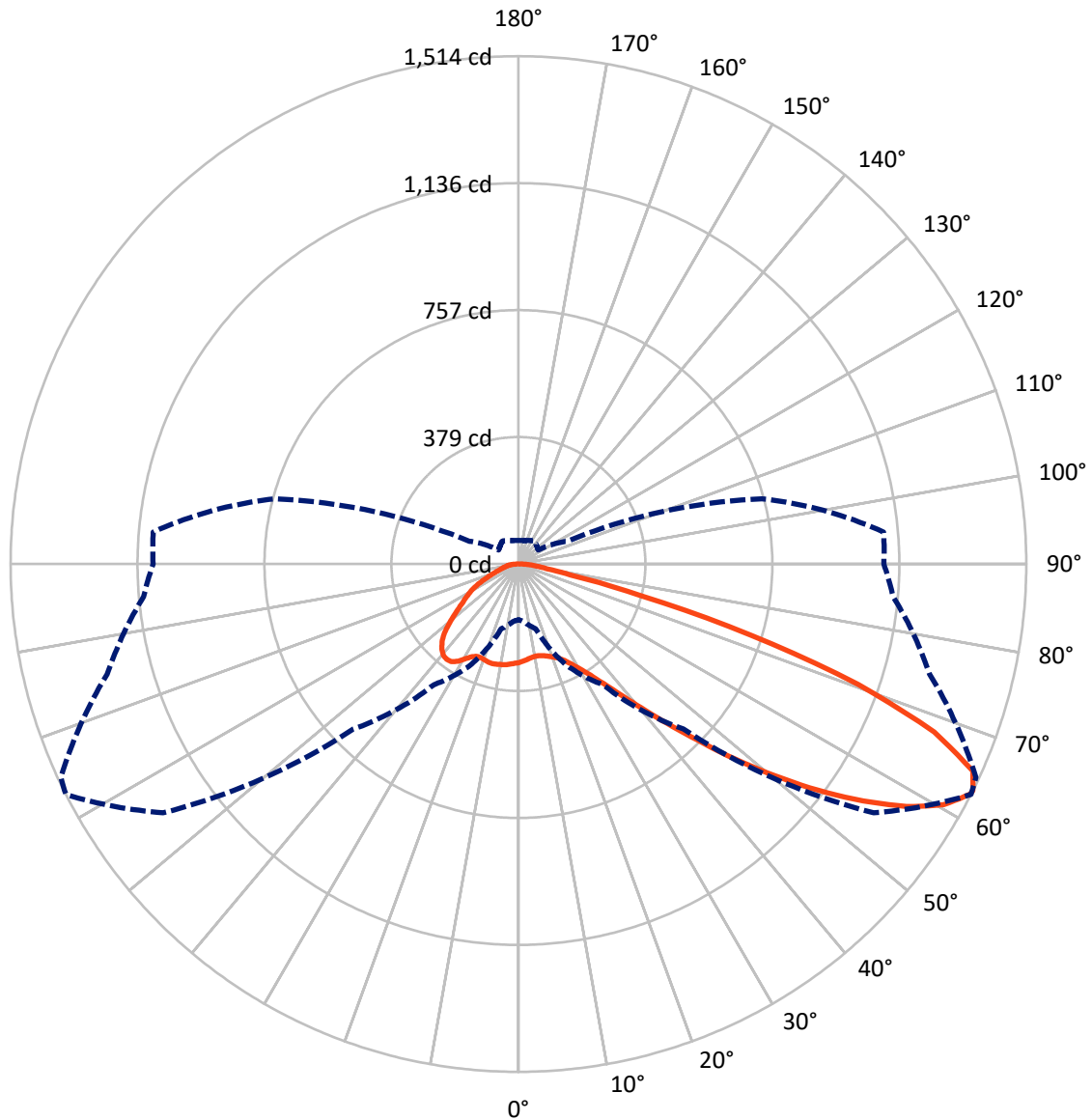


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.9	0.0	640.9
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1604.1	0.0	1604.1
	% Fixture	71.5	0.0	71.5
Total	Lumens	2245.0	0.0	2245.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	1.2
10°-20°	82.3	3.7
20°-30°	144.5	6.4
30°-40°	243.6	10.9
40°-50°	426.7	19.0
50°-60°	551.5	24.6
60°-70°	477.4	21.3
70°-80°	247.8	11.0
80°-90°	43.2	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°	2245.0	100.0
0°-180°	2245.0	100.0



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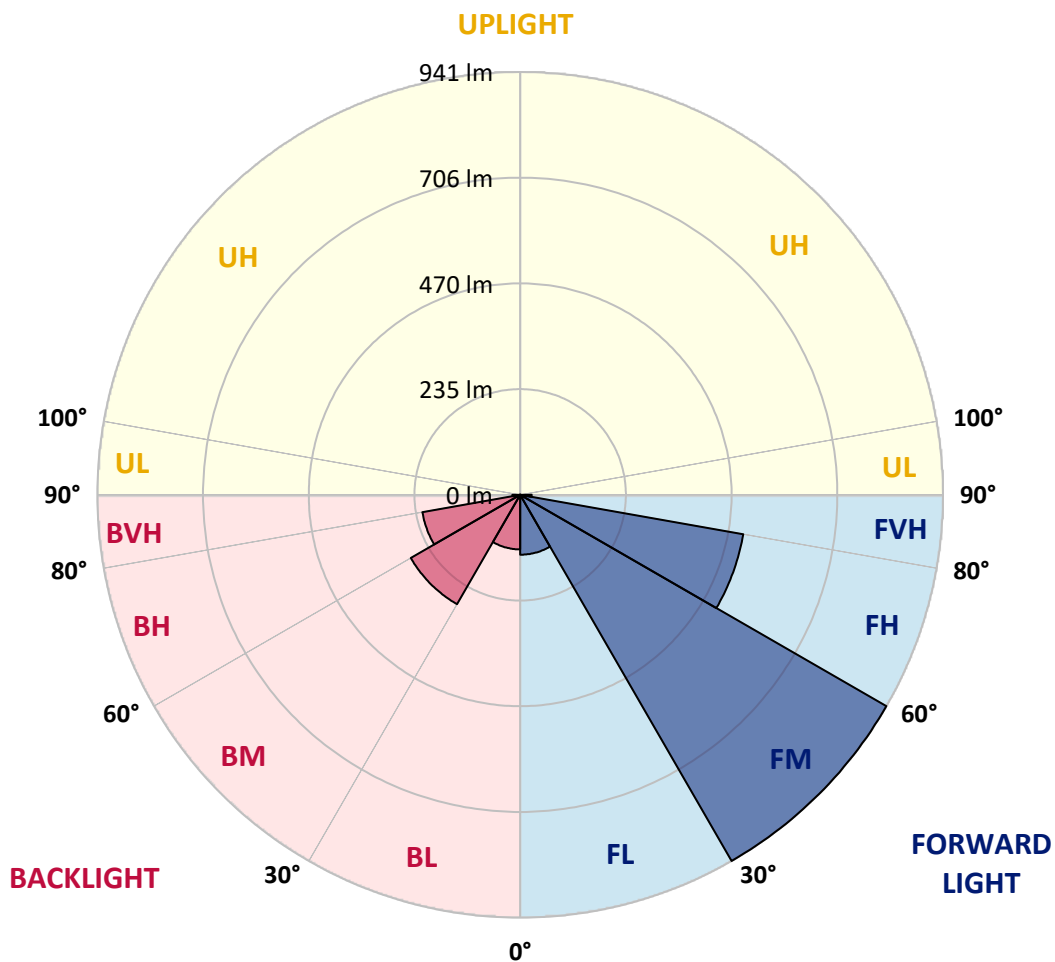
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	133.3	5.9			
FM (30°-60°)	940.9	41.9			
FH (60°-80°)	504.2	22.5			G0/660
FVH (80°-90°)	25.7	1.1			G1/100
BL (0°-30°)	121.4	5.4	B1/500		
BM (30°-60°)	281.0	12.5	B1/1000		
BH (60°-80°)	221.1	9.8	B1/500		G1/500
BVH (80°-90°)	17.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
2.5°	287.0	286.2	287.6	288.3	288.1	289.3	289.3	289.5	289.5	290.6	291.6
5°	278.6	278.2	279.6	280.7	281.5	283.4	284.7	285.3	286.0	287.4	289.9
7.5°	270.6	270.0	272.1	272.9	274.2	276.9	279.9	281.5	282.4	285.5	289.1
10°	264.1	263.9	265.6	266.4	267.9	271.9	276.1	279.6	280.3	284.5	287.8
12.5°	260.9	260.5	262.4	263.5	266.0	270.8	275.7	280.1	281.1	286.0	288.9
15°	263.5	263.9	265.6	265.8	268.7	273.8	279.2	283.6	284.7	289.5	291.6
17.5°	275.4	275.2	276.3	275.9	276.9	279.4	285.3	288.9	290.2	293.7	295.4
20°	297.1	296.5	297.3	294.6	289.9	288.7	292.3	296.2	296.7	298.8	297.7
22.5°	330.1	330.7	328.8	321.9	310.7	305.5	303.2	304.4	305.9	305.7	302.6
25°	373.1	375.2	371.7	359.5	340.8	328.6	320.2	318.3	319.4	316.4	311.6
27.5°	429.7	431.3	423.6	404.7	379.4	361.4	344.6	338.1	338.1	331.8	322.9
30°	491.9	492.9	480.5	456.6	427.4	400.5	375.7	363.1	362.0	349.6	335.7
32.5°	567.5	564.6	549.8	520.2	483.5	446.5	414.5	395.4	393.3	374.6	357.0
35°	665.2	665.2	634.7	600.9	556.1	509.1	467.1	437.4	435.3	414.1	391.2
37.5°	771.3	770.9	743.3	696.7	643.1	585.6	529.5	492.5	487.7	465.0	439.3
40°	877.0	873.4	851.1	806.8	749.7	683.9	606.6	563.5	561.2	528.8	496.7
42.5°	954.3	950.9	940.4	910.8	873.2	825.7	706.8	648.6	645.2	604.5	565.2
45°	996.9	992.1	990.6	991.1	995.3	995.1	830.5	749.2	737.5	690.2	637.9
47.5°	987.3	975.9	991.1	1029.9	1095.3	1138.1	974.7	868.8	846.9	779.3	715.4
50°	909.3	903.9	936.2	1015.4	1149.7	1250.3	1133.3	993.0	962.1	863.5	788.7
52.5°	772.6	783.1	823.0	935.6	1139.8	1318.2	1277.4	1122.0	1079.1	943.8	852.4
55°	615.0	628.2	684.5	803.9	1048.4	1319.0	1381.4	1247.0	1208.7	1026.8	917.5
57.5°	447.5	466.2	536.6	646.1	888.1	1228.9	1432.7	1364.0	1320.3	1108.5	981.2
60°	281.1	294.4	371.0	497.9	678.8	1029.9	1419.9	1457.7	1421.6	1185.6	1053.9
62.5°	181.1	187.4	220.6	355.5	473.4	755.3	1325.1	1511.5	1495.9	1256.0	1108.7
63°	166.0	171.4	199.8	328.6	438.9	695.9	1293.2	1514.2	1505.0	1269.2	1121.5
65°	118.7	124.6	139.3	225.9	324.0	466.9	1108.1	1488.8	1499.1	1291.3	1139.0
67.5°	93.7	95.6	102.3	137.2	229.9	265.2	745.7	1336.9	1382.1	1267.8	1113.1
70°	83.8	85.3	92.9	105.3	174.0	171.9	388.9	1074.9	1168.4	1187.5	1048.0
72.5°	73.1	74.2	83.4	99.2	132.8	131.3	169.1	722.8	836.4	1040.4	957.9
75°	60.5	61.6	69.3	88.0	112.4	103.8	105.9	377.8	479.5	815.6	840.0
77.5°	49.8	50.4	56.9	70.8	99.0	80.0	81.9	158.8	233.0	555.9	663.3
80°	36.1	36.3	42.4	53.8	75.6	72.3	60.9	86.6	105.7	304.7	417.3
82.5°	25.2	25.4	31.7	37.6	52.1	72.1	44.3	58.0	63.5	140.3	185.7
85°	17.6	17.2	21.6	24.8	33.0	43.7	33.8	37.2	39.3	60.7	50.0
87.5°	7.8	7.6	12.2	13.2	16.6	20.2	26.9	19.5	20.8	29.4	15.8
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°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
2.5°	291.8	292.7	293.9	295.8	297.3	297.9	299.2	299.4	301.3	299.6	299.8
5°	291.4	292.5	295.2	298.6	300.9	302.6	305.7	306.8	308.6	307.8	307.6
7.5°	290.8	292.7	296.7	301.5	305.1	307.8	310.7	312.6	314.5	314.1	313.7
10°	289.9	292.3	297.9	302.8	307.8	310.7	312.8	313.1	313.7	313.3	312.2
12.5°	290.6	293.1	299.6	304.4	309.7	311.8	311.2	308.0	305.3	303.0	302.6
15°	292.7	295.6	301.7	306.1	310.3	309.1	305.3	298.3	293.3	290.4	290.6
17.5°	294.8	297.3	301.9	305.5	307.6	303.8	297.9	292.0	289.7	287.4	287.0
20°	296.7	297.1	300.0	303.2	303.0	300.0	294.6	287.4	282.8	279.0	279.2
22.5°	299.6	297.9	298.1	300.0	302.3	299.6	286.8	274.4	267.5	263.1	262.8
25°	306.3	302.8	299.4	300.4	309.3	291.8	270.2	254.0	247.9	243.9	244.4
27.5°	315.6	310.7	304.0	309.7	314.5	276.5	246.5	229.9	225.7	221.5	222.5
30°	325.7	318.7	310.5	329.7	308.6	252.1	217.0	201.9	198.1	194.1	195.0
32.5°	343.7	333.4	322.7	353.6	295.0	222.5	186.2	172.5	170.0	167.5	167.7
35°	373.8	361.6	350.0	371.9	277.3	191.6	158.4	148.8	146.7	143.7	143.7
37.5°	418.1	399.0	392.9	381.5	253.2	162.8	138.0	131.5	127.1	123.1	123.1
40°	469.6	446.9	442.1	384.5	221.7	138.9	123.8	118.1	112.2	106.3	106.7
42.5°	532.2	501.5	490.4	380.5	183.4	123.5	113.7	107.2	101.5	96.4	95.6
45°	602.8	563.9	535.8	368.9	148.8	114.1	107.2	99.4	92.2	87.8	87.0
47.5°	674.9	631.6	575.9	345.8	124.4	107.4	102.7	91.8	86.8	83.8	83.4
50°	743.8	698.6	609.1	309.5	110.3	102.5	96.2	88.2	84.0	81.5	81.3
52.5°	804.9	762.3	637.0	271.9	100.9	98.5	93.3	86.6	82.2	79.8	79.4
55°	863.1	826.8	664.8	238.3	92.7	91.8	91.8	84.9	80.0	77.9	77.5
57.5°	927.0	900.1	692.7	213.7	85.3	87.0	89.9	83.0	77.7	75.8	75.6
60°	1000.7	985.0	722.1	192.0	78.8	81.7	87.2	80.5	75.0	73.5	73.1
62.5°	1076.2	1076.6	747.6	166.0	73.3	77.7	84.0	78.2	72.5	71.4	71.2
63°	1089.4	1093.2	751.1	160.3	72.1	76.9	83.2	77.3	71.9	70.8	70.6
65°	1122.0	1138.6	754.1	136.4	67.4	73.7	80.0	74.6	69.1	68.9	68.5
67.5°	1114.2	1141.3	735.8	106.9	62.2	69.3	75.6	70.6	65.8	65.8	64.9
70°	1056.2	1073.8	679.7	82.6	58.2	64.7	70.4	66.4	61.4	61.8	60.1
72.5°	967.3	948.0	559.1	64.5	53.4	59.5	64.3	60.9	56.5	56.1	54.2
75°	837.1	773.4	400.5	52.1	47.5	52.5	57.6	55.0	51.1	48.7	48.3
77.5°	637.9	549.0	239.9	44.1	42.4	46.6	49.8	47.9	44.8	42.0	42.2
80°	379.9	316.6	108.2	37.4	36.8	39.9	42.4	41.0	38.9	35.5	34.7
82.5°	153.8	122.5	48.5	30.3	31.1	33.4	35.7	34.5	32.8	31.9	27.1
85°	39.9	38.4	28.4	22.7	24.0	25.0	28.2	28.2	26.7	21.9	20.2
87.5°	11.3	15.1	15.8	14.3	16.2	16.4	19.5	19.5	20.0	13.4	12.2
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)