

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: P348683

Luminaire Tested: **ARCH-N-PA1-30-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348683
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-PA1-30-830-U-T4W
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: 3485 lumens
Efficiency: N/A
Efficacy: 112.4 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

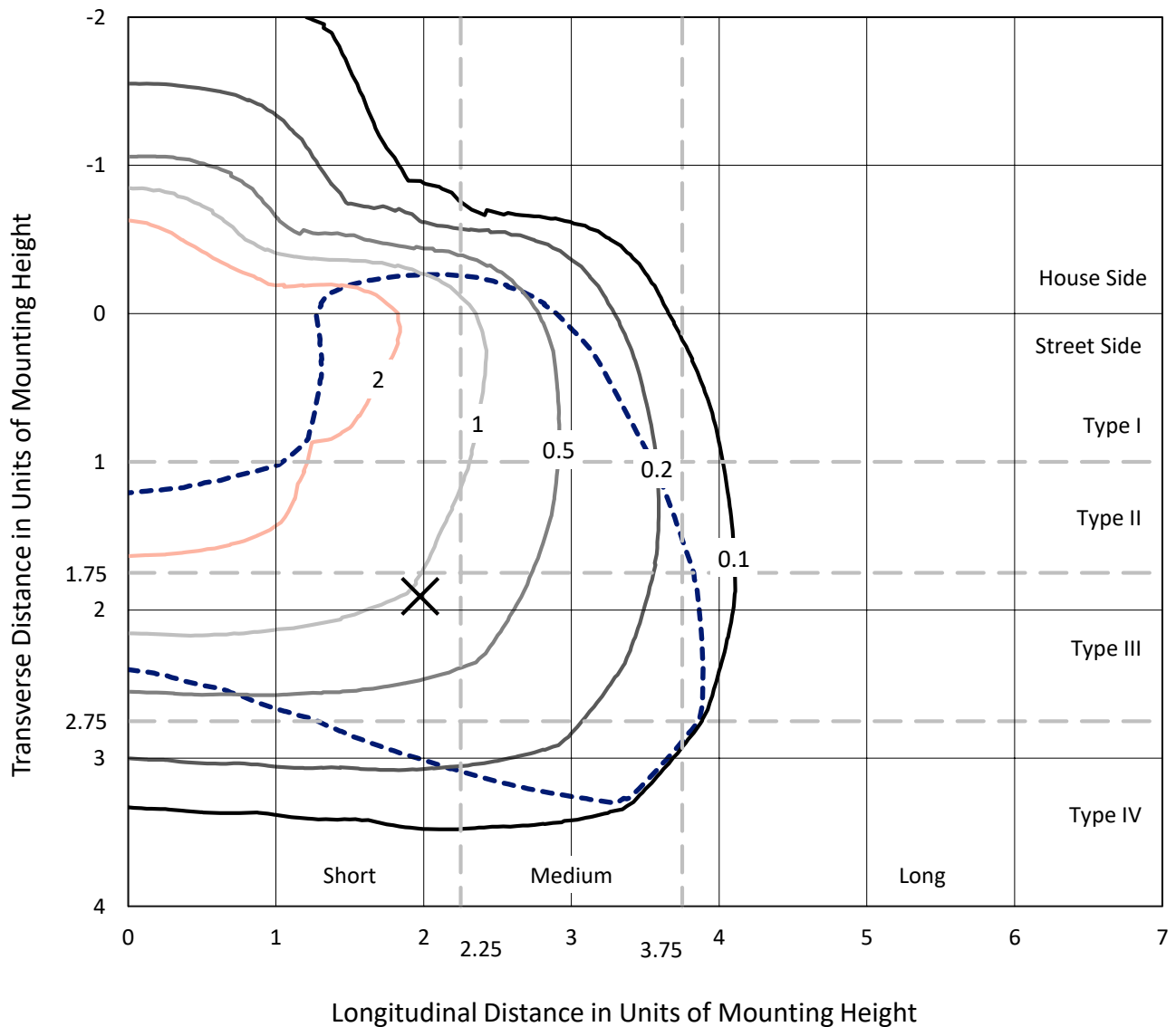


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Iso-Footcandle Lines of Horizontal Illumination

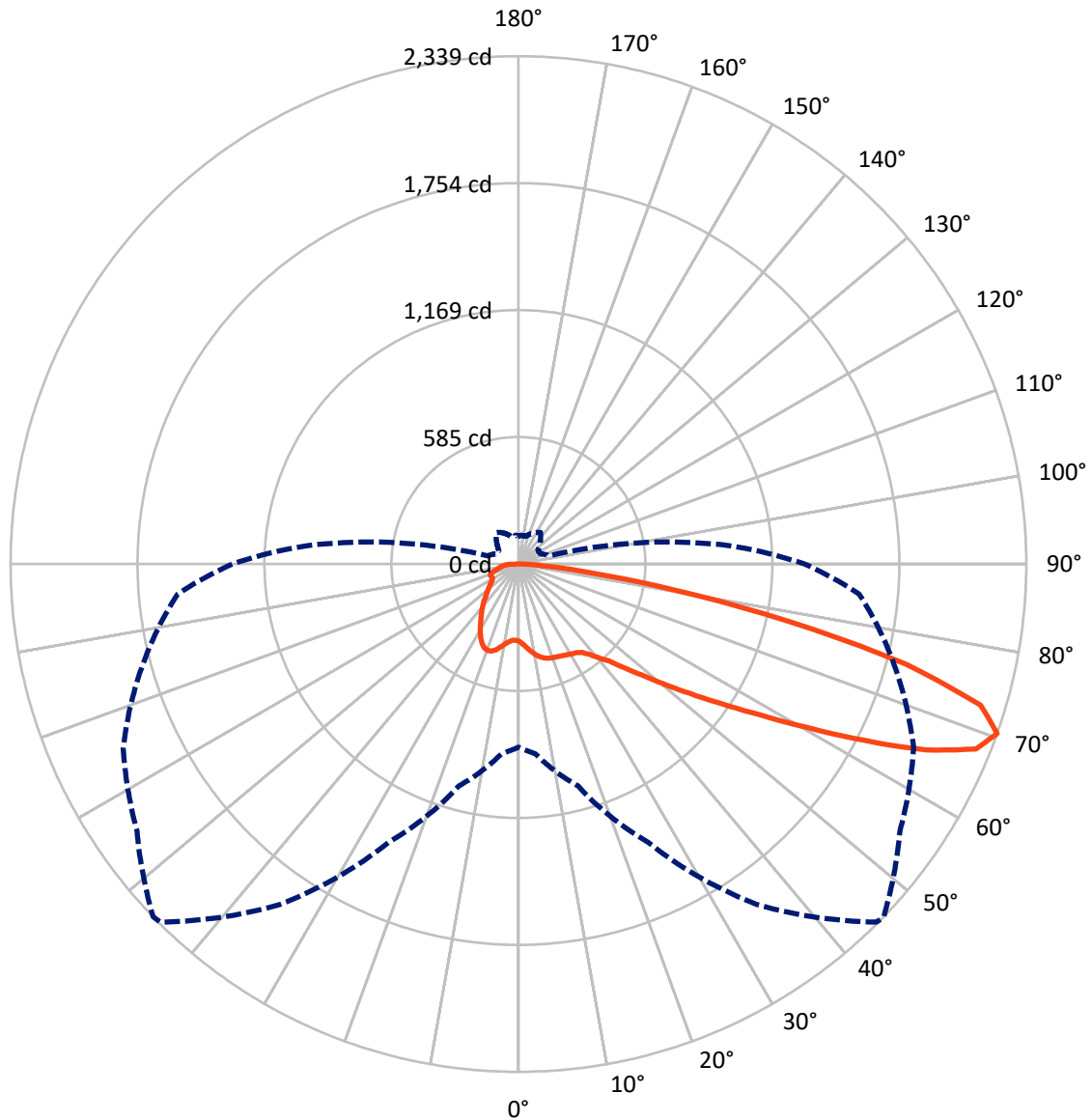
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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	798.8	0.0	798.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2686.2	0.0	2686.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	3485.0	0.0	3485.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	1.0
10°-20°	120.6	3.5
20°-30°	201.1	5.8
30°-40°	285.3	8.2
40°-50°	419.7	12.0
50°-60°	710.8	20.4
60°-70°	1008.9	29.0
70°-80°	612.9	17.6
80°-90°	89.5	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°	3485.0	100.0
0°-180°	3485.0	100.0



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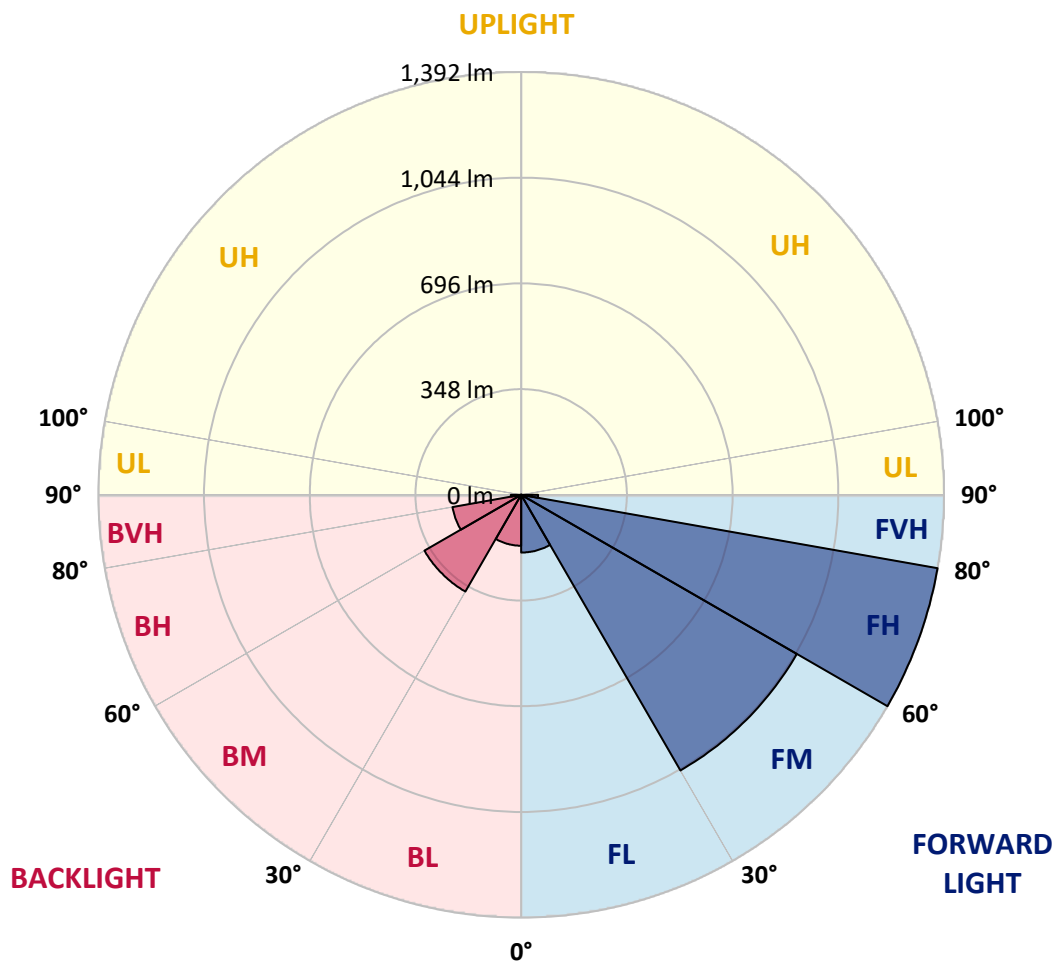
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	190.2	5.5			
FM	(30°-60°)	1048.1	30.1			
FH	(60°-80°)	1392.2	39.9			G1/1800
FVH	(80°-90°)	55.7	1.6			G1/100
BL	(0°-30°)	167.7	4.8	B1/500		
BM	(30°-60°)	367.7	10.6	B1/1000		
BH	(60°-80°)	229.6	6.6	B1/500		G1/500
BVH	(80°-90°)	33.7	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°	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1
2.5°	372.8	373.1	373.5	372.3	369.0	368.1	367.7	364.2	362.0	358.6	355.8
5°	402.6	402.9	402.2	398.8	391.4	385.9	385.5	377.6	370.4	362.8	357.1
7.5°	433.8	434.1	431.9	425.5	415.2	405.6	405.0	394.3	383.4	371.9	363.3
10°	461.3	459.9	456.2	447.4	435.1	423.4	422.9	411.7	399.2	385.2	373.8
12.5°	479.7	478.5	473.7	463.0	449.5	438.8	437.8	427.4	415.3	400.0	386.3
15°	489.8	490.7	484.2	472.1	458.9	449.9	449.0	441.6	430.8	415.4	399.7
17.5°	491.1	491.9	485.6	473.6	462.9	456.7	456.3	451.4	443.5	428.8	412.3
20°	483.5	484.0	478.9	469.0	461.9	460.0	459.9	457.7	451.9	438.8	422.8
22.5°	472.4	472.8	469.1	461.9	459.5	462.5	463.3	462.5	458.3	446.1	431.0
25°	469.7	469.4	465.6	458.3	460.4	466.7	467.8	468.1	465.3	454.5	441.5
27.5°	482.9	482.1	474.8	463.1	464.4	472.1	473.5	476.9	475.2	465.7	453.4
30°	521.2	519.8	504.9	481.2	474.8	478.7	480.5	486.0	486.4	478.5	469.3
32.5°	585.8	584.0	557.3	515.1	492.3	485.5	487.2	495.4	499.8	493.8	483.9
35°	667.5	665.5	630.4	572.7	521.7	498.5	499.7	506.3	515.1	506.5	493.4
37.5°	752.7	747.8	714.0	640.5	568.3	526.3	526.3	527.2	531.3	513.4	504.6
40°	837.4	832.5	801.9	720.1	628.6	570.1	567.3	548.9	545.5	530.1	527.2
42.5°	916.1	914.6	896.6	810.2	699.5	613.1	609.3	578.0	578.7	569.1	569.3
45°	999.8	999.8	985.1	901.1	782.0	682.3	678.5	632.3	639.5	635.1	645.7
47.5°	1068.1	1070.3	1068.3	995.7	878.0	770.2	763.3	707.7	727.8	742.9	773.8
50°	1137.9	1141.3	1141.6	1099.6	994.1	874.7	866.8	807.8	852.5	895.9	956.6
52.5°	1239.2	1246.7	1216.7	1203.3	1136.2	998.7	991.0	936.5	1011.1	1072.1	1176.7
55°	1333.0	1326.5	1305.1	1313.5	1288.4	1139.9	1134.1	1086.3	1187.9	1267.1	1402.9
57.5°	1383.8	1383.4	1404.8	1440.6	1452.5	1314.1	1309.2	1262.7	1387.2	1446.7	1615.3
60°	1443.5	1444.3	1497.5	1578.7	1627.9	1530.9	1528.7	1493.4	1580.7	1614.4	1781.9
62.5°	1451.8	1466.8	1558.4	1698.2	1792.0	1784.2	1789.0	1701.3	1753.9	1748.2	1906.3
65°	1355.8	1375.6	1541.4	1734.4	1955.1	2061.3	2065.7	1910.4	1890.5	1862.6	1950.8
67.5°	1159.0	1188.4	1368.5	1655.8	2008.9	2266.0	2272.2	2072.5	2003.8	1901.3	1843.7
70°	843.4	876.0	1057.3	1414.1	1913.0	2331.5	2338.6	2144.2	2008.1	1791.0	1573.9
72.5°	509.5	535.0	684.5	1041.1	1614.6	2212.3	2224.8	2053.3	1833.3	1517.1	1162.2
75°	223.7	240.4	331.0	599.9	1155.9	1830.4	1846.0	1757.5	1489.6	1102.5	687.0
77.5°	95.3	100.1	135.7	260.6	653.5	1250.7	1272.2	1284.1	1010.7	599.9	290.3
80°	59.4	61.3	76.8	118.0	305.8	702.5	725.6	755.5	501.9	220.5	101.4
82.5°	36.1	38.3	51.0	71.3	159.2	318.4	329.5	350.6	194.8	95.3	52.5
85°	21.7	23.3	31.2	45.1	90.6	125.2	125.1	138.3	91.7	61.3	27.7
87.5°	10.4	11.6	16.7	23.4	45.7	47.0	44.0	49.9	55.7	40.2	14.0
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°	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1	355.1
2.5°	354.8	354.3	352.8	351.6	351.4	350.6	350.0	350.4	350.9	351.0	351.0
5°	354.7	353.4	351.4	350.5	351.6	353.0	354.8	357.2	358.6	359.7	360.4
7.5°	360.4	357.9	355.6	355.2	357.3	361.1	365.2	370.2	373.7	376.0	376.5
10°	370.0	366.9	364.6	365.1	368.9	374.4	380.1	386.5	391.8	395.0	395.2
12.5°	380.9	378.0	375.8	377.8	384.2	390.8	396.8	402.4	407.2	410.4	410.4
15°	393.6	391.4	388.9	393.6	402.2	408.1	410.6	413.4	416.0	418.4	417.9
17.5°	405.7	403.7	402.4	407.9	416.8	419.6	417.9	415.9	415.9	417.2	417.4
20°	416.2	414.4	415.3	420.6	425.3	422.4	416.2	409.8	407.2	407.9	408.6
22.5°	425.4	424.6	427.1	429.6	426.3	416.2	404.8	396.1	392.9	392.6	392.9
25°	436.2	436.0	439.1	434.6	419.8	401.3	385.9	377.5	375.7	377.1	379.5
27.5°	449.5	450.8	452.4	435.8	406.7	378.8	363.2	357.3	359.1	362.6	364.8
30°	466.6	470.1	466.8	432.8	387.9	353.0	338.1	336.4	341.3	346.2	348.6
32.5°	483.1	488.7	480.6	425.1	363.5	325.7	314.1	313.7	319.6	324.4	327.7
35°	496.5	507.6	491.0	409.7	335.4	300.5	292.1	288.9	291.0	296.6	300.4
37.5°	513.9	532.4	498.2	386.2	304.8	279.8	269.9	262.5	260.6	262.9	264.8
40°	545.8	570.2	501.5	353.4	275.0	259.0	249.0	238.2	230.7	225.2	225.3
42.5°	597.8	619.5	499.4	313.5	247.5	238.8	227.4	214.9	202.8	190.3	189.4
45°	682.2	692.7	492.9	271.3	223.3	217.5	206.9	194.4	178.2	164.1	162.8
47.5°	817.3	794.1	482.9	234.5	201.9	199.5	189.8	175.3	158.1	146.8	145.9
50°	1001.6	940.4	478.0	205.1	183.1	183.8	175.8	160.5	144.3	136.0	135.0
52.5°	1222.0	1110.8	487.4	182.5	167.9	170.4	164.5	150.2	136.6	130.0	129.0
55°	1450.6	1287.4	497.6	166.0	153.6	158.5	156.5	144.7	132.4	126.3	125.5
57.5°	1646.3	1419.1	477.3	152.7	140.9	148.5	150.3	141.2	130.2	124.8	123.8
60°	1769.5	1472.2	424.1	140.1	130.7	140.5	146.7	140.3	131.1	130.6	129.9
62.5°	1828.0	1467.6	344.3	130.2	124.4	137.0	149.3	145.6	140.6	144.9	145.3
65°	1801.7	1397.4	256.4	123.7	119.9	138.3	157.2	155.8	143.4	147.7	148.2
67.5°	1629.0	1230.1	189.9	118.0	114.9	142.0	171.5	159.1	138.0	141.1	139.2
70°	1316.7	975.2	146.5	111.5	109.7	141.6	177.9	157.1	132.1	132.9	127.7
72.5°	908.0	665.0	119.1	105.5	102.3	129.0	173.4	152.1	127.3	121.8	115.0
75°	493.8	357.0	101.3	99.3	89.3	113.3	165.1	148.5	122.8	115.6	111.8
77.5°	194.3	148.1	87.9	90.9	78.1	100.1	155.8	141.7	116.8	107.2	105.3
80°	79.3	75.6	72.9	78.6	67.1	87.5	144.5	133.7	109.5	99.5	95.7
82.5°	45.0	47.0	56.7	62.0	54.5	80.6	139.2	127.3	100.8	89.1	84.6
85°	23.0	27.6	39.5	44.5	40.1	68.6	128.2	111.4	80.9	68.2	68.6
87.5°	11.1	15.4	24.9	27.9	26.0	49.6	95.8	80.7	63.0	49.9	48.3
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)