

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: P397687

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

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3930 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

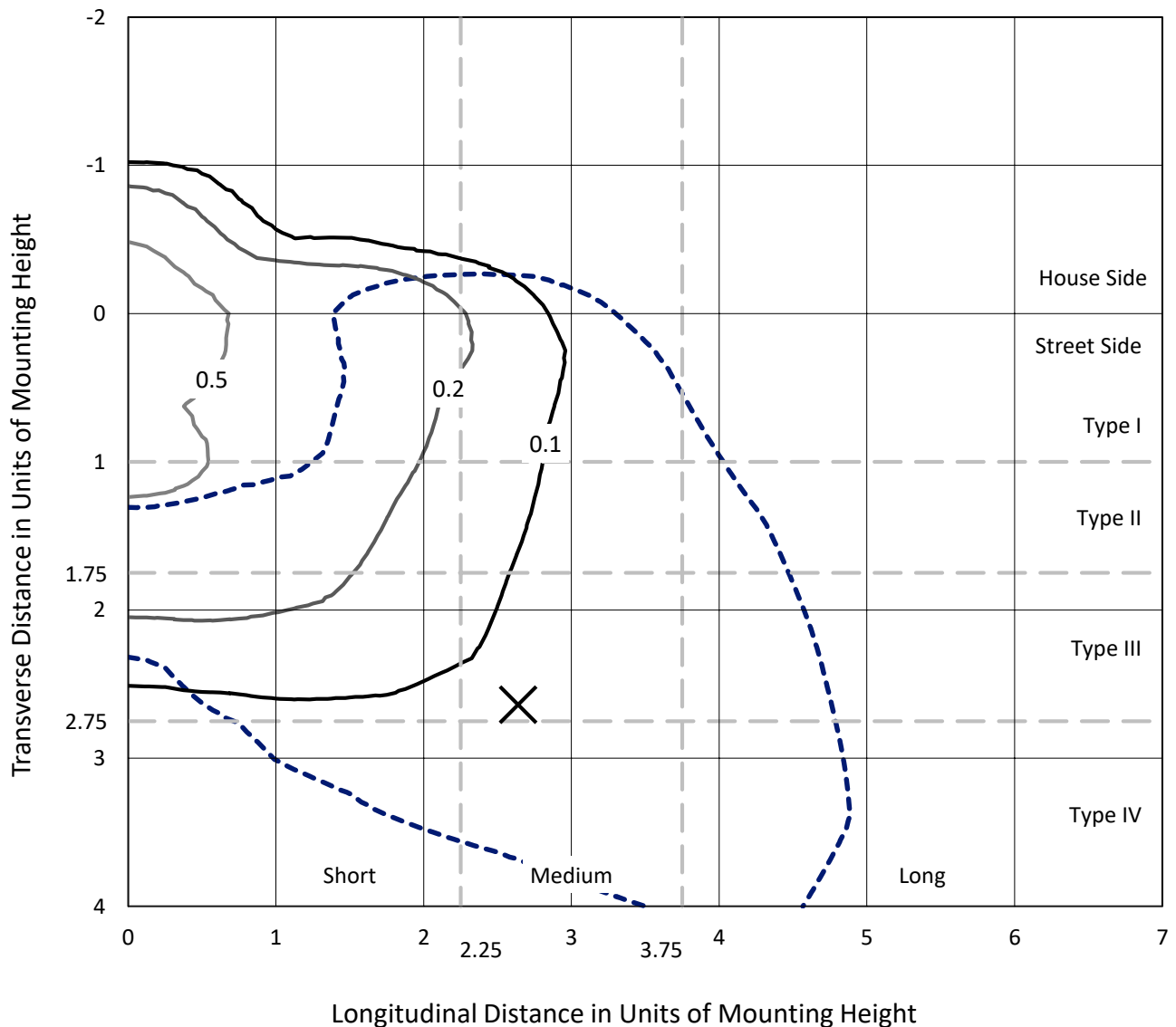


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

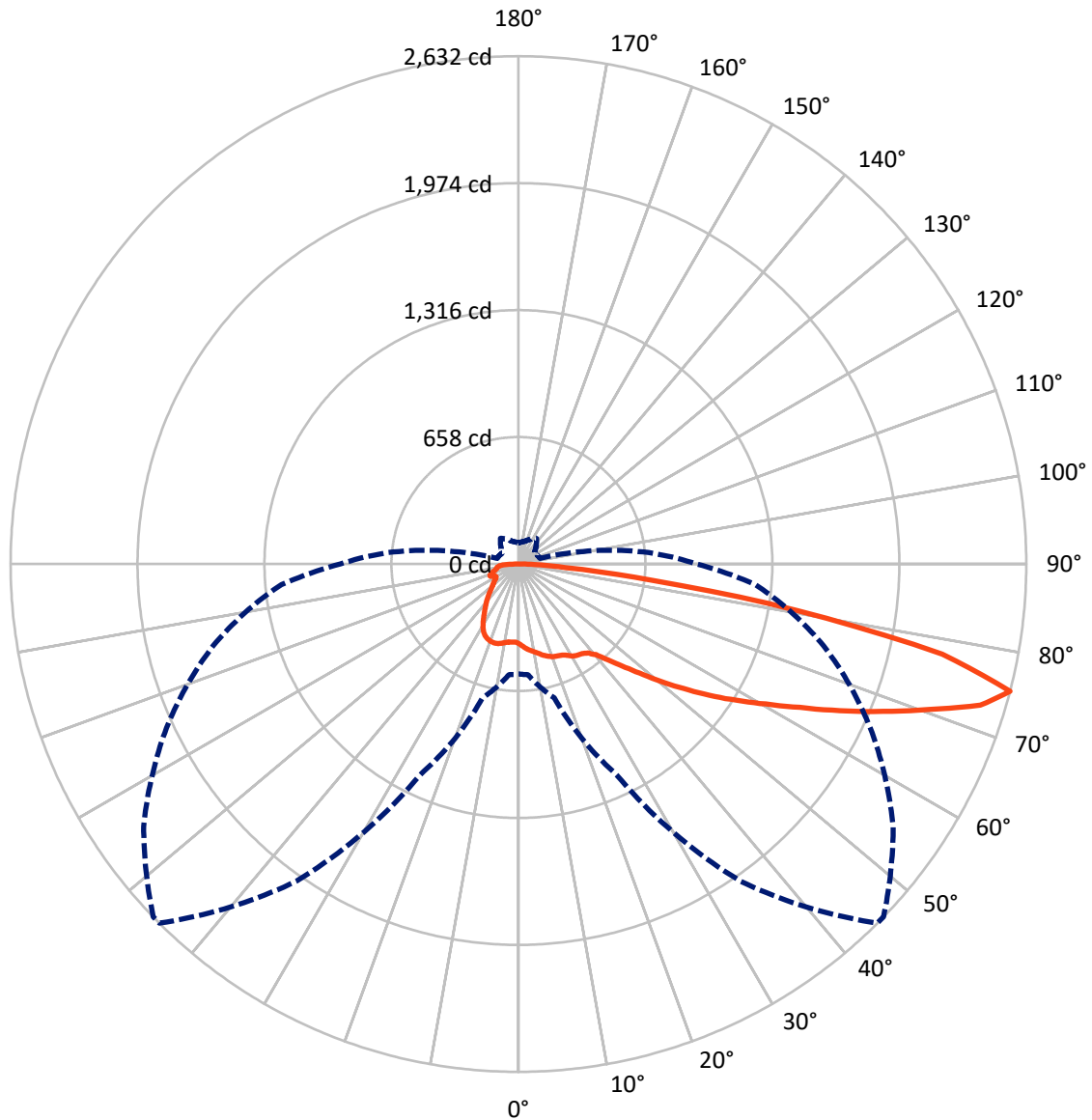


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	868.5	0.0	868.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	3061.5	0.0	3061.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	3930.0	0.0	3930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	1.0
10°-20°	129.9	3.3
20°-30°	221.5	5.6
30°-40°	310.3	7.9
40°-50°	455.9	11.6
50°-60°	725.5	18.5
60°-70°	1032.0	26.3
70°-80°	864.1	22.0
80°-90°	150.0	3.8
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°	3930.0	100.0
0°-180°	3930.0	100.0



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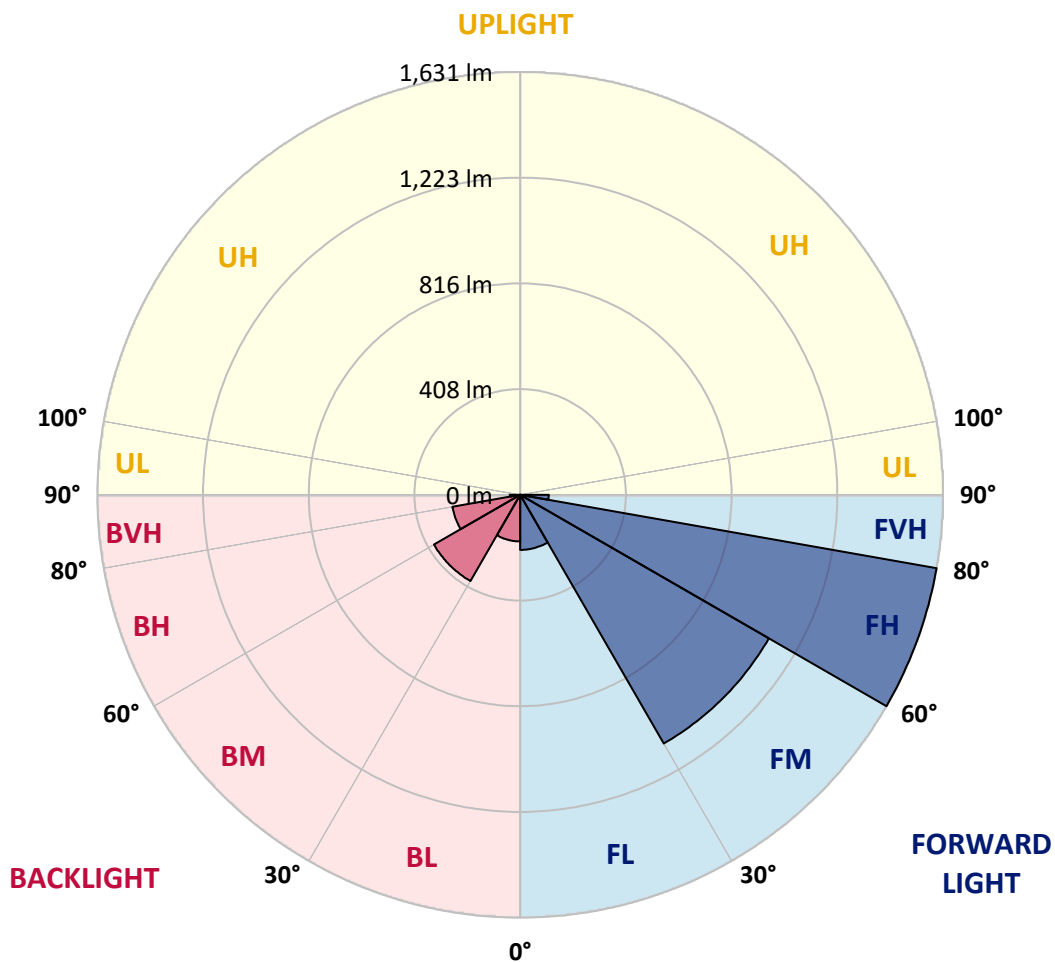
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.4	5.4			
FM (30°-60°)	1107.7	28.2			
FH (60°-80°)	1631.0	41.5			G1/1800
FVH (80°-90°)	110.3	2.8			G2/225
BL (0°-30°)	179.7	4.6	B1/500		
BM (30°-60°)	383.9	9.8	B1/1000		
BH (60°-80°)	265.1	6.7	B1/500		G1/500
BVH (80°-90°)	39.7	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	436.4	434.3	433.2	433.2	429.0	426.4	425.9	422.2	419.0	415.9	413.3
5°	461.6	460.0	456.8	454.2	448.4	441.1	440.0	432.2	424.3	416.9	410.6
7.5°	484.7	481.5	477.8	472.6	463.1	453.2	451.6	440.6	429.5	418.5	410.1
10°	504.1	501.0	495.7	488.4	476.3	464.2	462.6	451.1	439.5	426.4	414.3
12.5°	522.5	519.9	512.0	502.0	487.8	476.8	475.2	465.2	453.2	438.5	422.7
15°	538.2	535.6	527.2	515.7	499.4	491.0	488.9	479.4	467.3	451.6	435.3
17.5°	546.1	546.1	537.2	524.6	509.4	503.1	501.5	489.9	478.9	463.7	447.4
20°	548.7	549.8	543.5	528.3	515.1	512.5	510.9	501.5	488.9	474.2	458.9
22.5°	550.3	552.4	547.2	529.8	518.8	517.2	516.2	509.9	499.9	485.7	470.5
25°	555.6	555.6	551.9	532.5	523.5	523.0	523.0	519.3	512.5	500.4	485.2
27.5°	563.4	562.9	558.2	538.2	534.0	535.6	535.1	534.6	529.8	517.8	501.5
30°	576.6	576.6	571.3	549.8	547.2	554.0	554.5	555.6	548.2	529.3	516.2
32.5°	596.5	594.4	589.2	561.3	557.1	563.4	564.5	564.0	557.7	539.8	533.5
35°	658.0	653.2	634.3	587.1	566.1	569.7	570.3	572.9	573.9	559.8	556.6
37.5°	765.6	759.3	730.4	648.0	594.4	585.5	585.0	591.8	597.6	585.0	585.0
40°	882.7	877.5	860.7	753.0	646.9	617.5	615.4	621.7	629.1	620.2	622.8
42.5°	983.5	987.7	989.3	864.3	725.7	677.4	671.6	662.7	674.2	666.4	676.9
45°	1059.1	1057.0	1085.9	978.3	827.6	752.5	744.6	720.5	735.2	734.6	757.7
47.5°	1139.5	1135.8	1147.9	1085.4	943.6	844.4	832.3	796.6	818.6	833.9	872.2
50°	1215.6	1216.7	1220.9	1169.9	1069.6	956.2	941.0	893.2	924.7	956.7	1010.8
52.5°	1314.9	1307.5	1302.3	1268.7	1210.9	1072.8	1062.8	1008.2	1052.3	1090.1	1162.1
55°	1401.5	1396.8	1393.6	1392.1	1329.1	1201.5	1190.9	1134.2	1197.8	1224.6	1330.6
57.5°	1493.9	1491.3	1508.1	1534.9	1509.7	1332.2	1321.2	1266.6	1337.5	1356.4	1513.4
60°	1561.7	1563.3	1609.5	1677.7	1660.4	1474.0	1460.9	1412.5	1473.5	1490.3	1696.1
62.5°	1562.2	1578.0	1685.1	1807.4	1827.4	1637.3	1622.1	1569.6	1613.1	1613.1	1859.9
65°	1413.1	1430.9	1671.4	1839.5	1996.5	1831.6	1816.9	1734.4	1750.7	1728.7	2013.8
67.5°	1264.5	1285.5	1511.8	1842.1	2115.1	2039.5	2022.2	1899.3	1871.5	1815.8	2121.4
70°	1165.7	1180.4	1369.5	1808.0	2186.6	2256.9	2243.8	2055.8	1966.5	1888.8	2098.9
72.5°	981.4	976.2	1156.8	1645.7	2226.5	2503.7	2492.7	2225.9	2049.0	1854.2	1790.1
75°	569.7	576.0	717.8	1205.7	2007.0	2632.4	2631.3	2371.4	2012.7	1637.8	1233.5
77.5°	164.4	169.1	235.8	529.8	1269.2	2245.4	2317.3	2168.7	1701.4	1167.3	639.6
80°	71.9	75.6	102.4	176.4	546.6	1466.6	1529.6	1466.6	1026.1	535.6	251.0
82.5°	42.5	45.2	66.7	109.2	262.0	697.9	782.9	683.7	442.7	227.4	104.0
85°	24.2	25.2	38.3	69.3	164.9	244.2	274.1	256.8	215.8	129.2	54.6
87.5°	11.0	11.6	18.9	32.6	92.4	82.4	85.6	113.4	125.0	78.8	27.3
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°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	412.2	410.6	407.5	406.4	404.9	405.4	405.9	405.9	406.4	404.9	404.9
5°	408.0	405.4	402.2	402.2	402.2	406.4	410.1	412.2	413.3	413.3	412.2
7.5°	406.4	403.3	399.6	400.7	401.7	407.0	413.8	420.6	422.7	422.7	421.7
10°	409.6	406.4	403.8	405.4	408.0	412.2	417.5	423.8	429.0	429.5	429.0
12.5°	416.9	413.3	410.6	413.8	416.9	419.6	422.2	424.8	431.6	432.7	432.7
15°	429.0	425.3	422.2	424.8	425.9	425.9	425.9	425.9	432.7	433.7	433.7
17.5°	441.1	437.9	434.8	435.3	432.2	428.0	426.4	425.9	429.5	432.7	433.2
20°	452.6	450.0	446.9	441.6	433.7	425.9	423.2	423.2	425.3	430.1	430.1
22.5°	465.2	462.1	456.8	444.8	431.6	420.6	418.0	419.6	422.2	428.5	428.0
25°	479.4	475.2	466.3	443.7	424.8	411.7	412.2	416.9	421.7	428.5	428.5
27.5°	495.2	489.4	471.5	435.3	409.6	397.0	401.7	412.7	419.6	426.9	428.0
30°	512.5	507.3	475.7	420.6	384.9	373.4	384.9	402.8	413.3	420.1	421.7
32.5°	533.5	529.3	479.4	401.7	352.9	342.9	359.7	381.8	398.6	406.4	408.0
35°	559.8	555.6	484.2	380.2	322.9	312.4	327.7	350.2	372.3	382.3	385.4
37.5°	593.9	587.6	488.4	357.1	297.7	285.7	293.0	313.5	333.4	347.1	350.8
40°	637.5	627.5	492.0	330.8	275.7	262.0	264.7	274.6	286.2	298.3	303.0
42.5°	698.9	679.0	492.6	303.0	253.1	240.5	239.4	242.6	242.6	242.6	244.2
45°	784.5	746.7	493.6	276.7	230.0	216.9	213.7	212.7	204.8	189.6	188.5
47.5°	892.7	835.4	498.3	254.7	205.8	194.3	190.1	185.9	171.2	155.4	152.3
50°	1031.3	938.4	507.8	233.7	185.4	177.5	172.2	162.3	146.0	133.9	130.8
52.5°	1190.9	1060.7	516.7	211.6	170.1	164.9	158.6	146.5	129.2	121.8	120.8
55°	1374.2	1197.2	534.6	192.2	157.0	153.3	147.6	136.0	122.9	117.6	117.1
57.5°	1561.7	1350.1	559.8	174.9	144.4	142.3	142.3	132.3	123.9	121.8	121.8
60°	1742.3	1481.3	540.3	158.6	132.9	133.9	143.9	141.3	135.0	137.6	139.2
62.5°	1882.5	1558.5	438.5	145.5	124.5	133.9	159.6	159.6	152.3	151.2	151.2
65°	1942.4	1557.5	308.2	135.5	121.3	147.0	178.0	169.6	150.2	142.8	141.3
67.5°	1927.2	1489.2	212.7	128.7	120.3	160.7	186.4	162.8	140.7	134.4	129.7
70°	1793.2	1344.8	163.8	122.4	118.7	154.9	183.8	154.9	133.4	127.6	123.4
72.5°	1446.7	1078.6	136.0	116.0	112.4	143.4	174.9	147.6	127.6	121.3	117.1
75°	922.6	678.4	115.0	107.6	100.3	128.7	162.8	140.2	121.3	112.9	109.7
77.5°	443.7	292.5	100.3	97.7	90.3	119.2	150.7	130.8	112.9	106.1	104.0
80°	179.6	133.9	87.2	87.7	83.0	113.4	142.3	121.8	104.5	97.1	93.5
82.5°	93.5	77.7	73.5	75.6	75.6	108.2	136.0	114.5	97.1	94.0	81.9
85°	50.4	48.3	56.7	60.9	65.6	97.7	126.6	106.6	88.7	76.1	73.5
87.5°	24.7	31.5	32.0	36.8	45.7	78.2	106.6	89.3	74.0	61.4	60.4
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)