

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: P397685

Luminaire Tested: **ARCH-S-PA1-30-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3955 lumens
Efficiency: N/A
Efficacy: 127.6 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

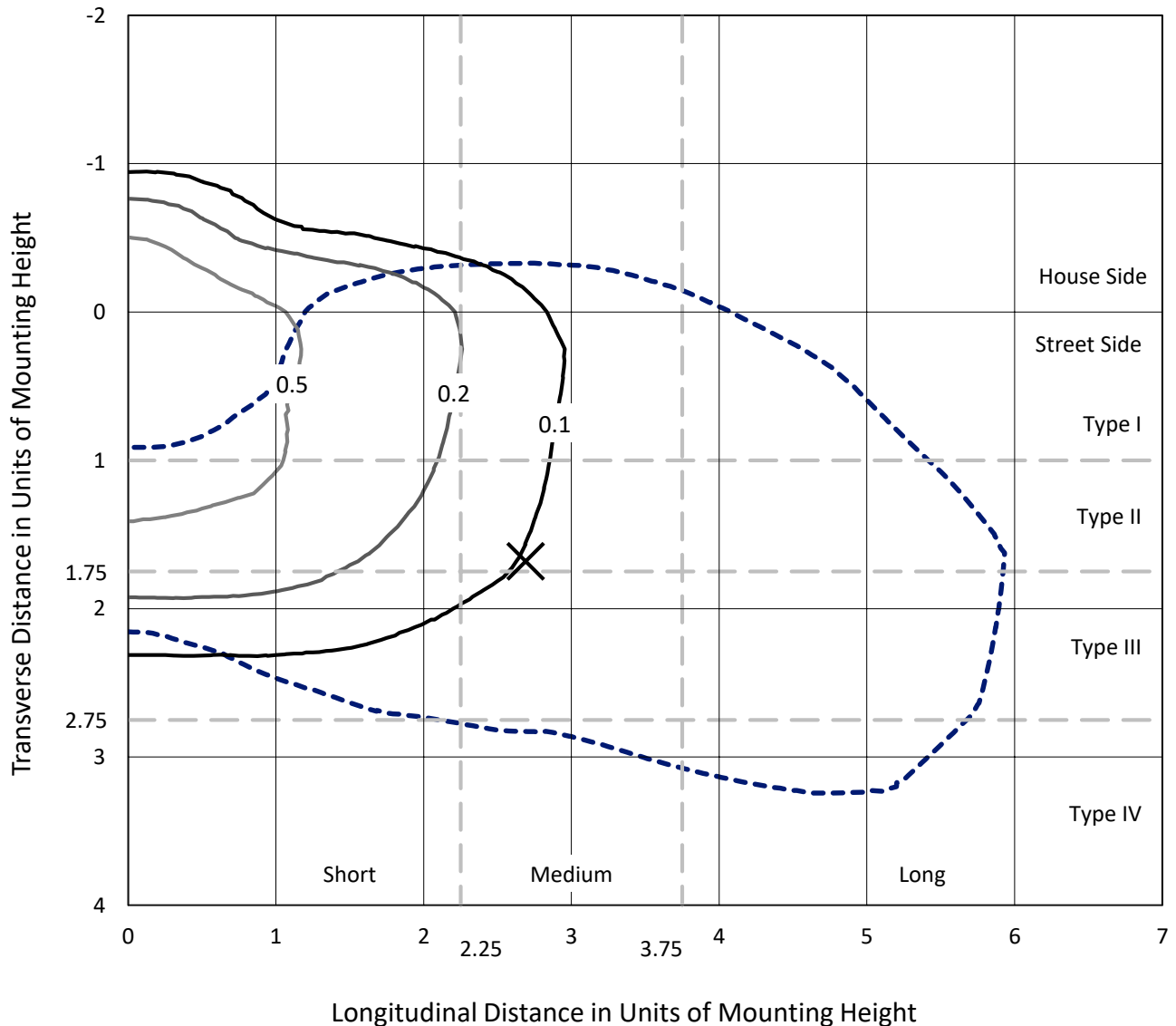


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

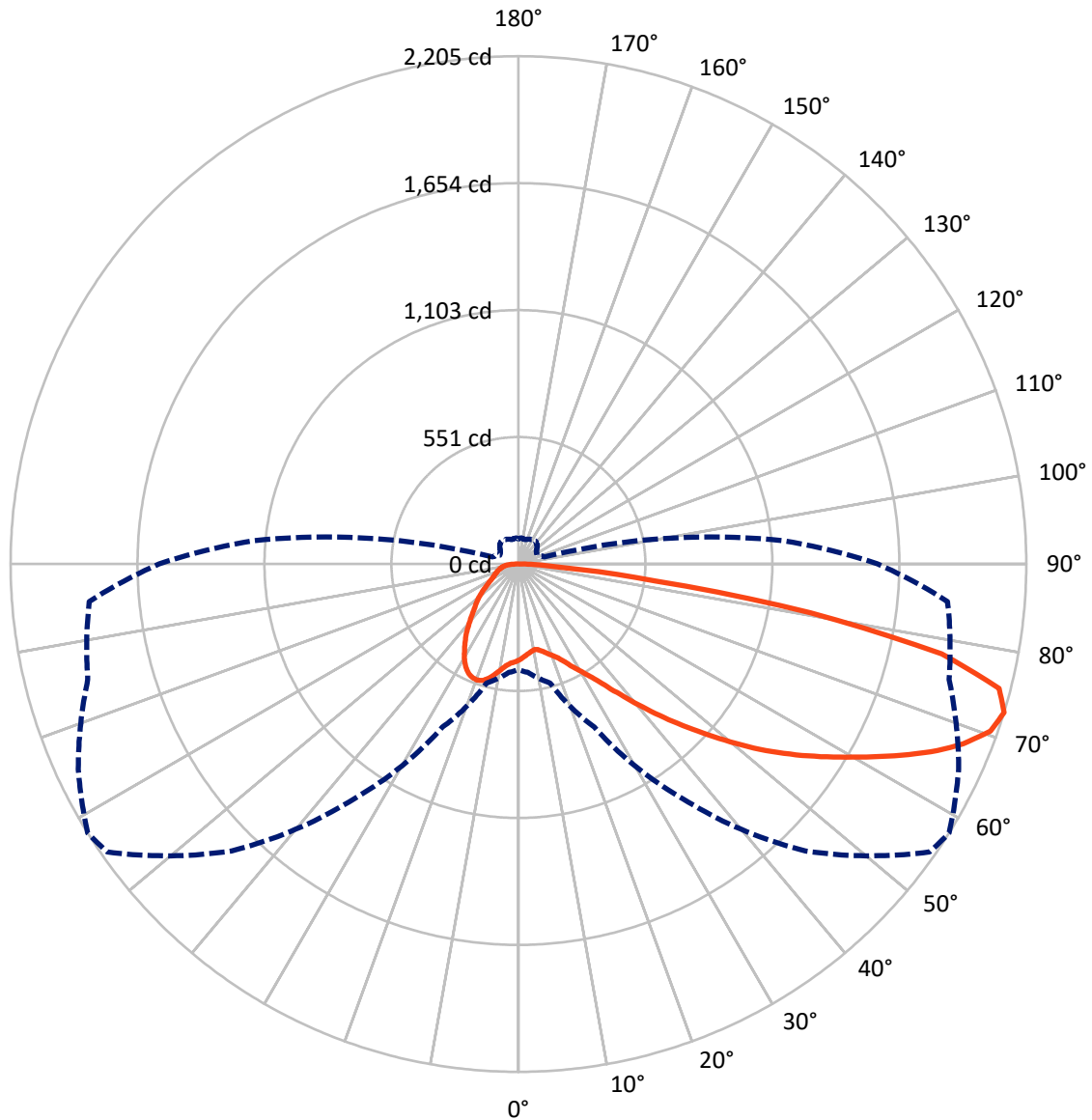


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.0	0.0	897.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	3058.1	0.0	3058.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	3955.0	0.0	3955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	127.6	3.2
20°-30°	228.6	5.8
30°-40°	343.9	8.7
40°-50°	556.9	14.1
50°-60°	838.3	21.2
60°-70°	986.6	24.9
70°-80°	699.6	17.7
80°-90°	133.3	3.4
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°	3955.0	100.0
0°-180°	3955.0	100.0

Coefficient of Utilization



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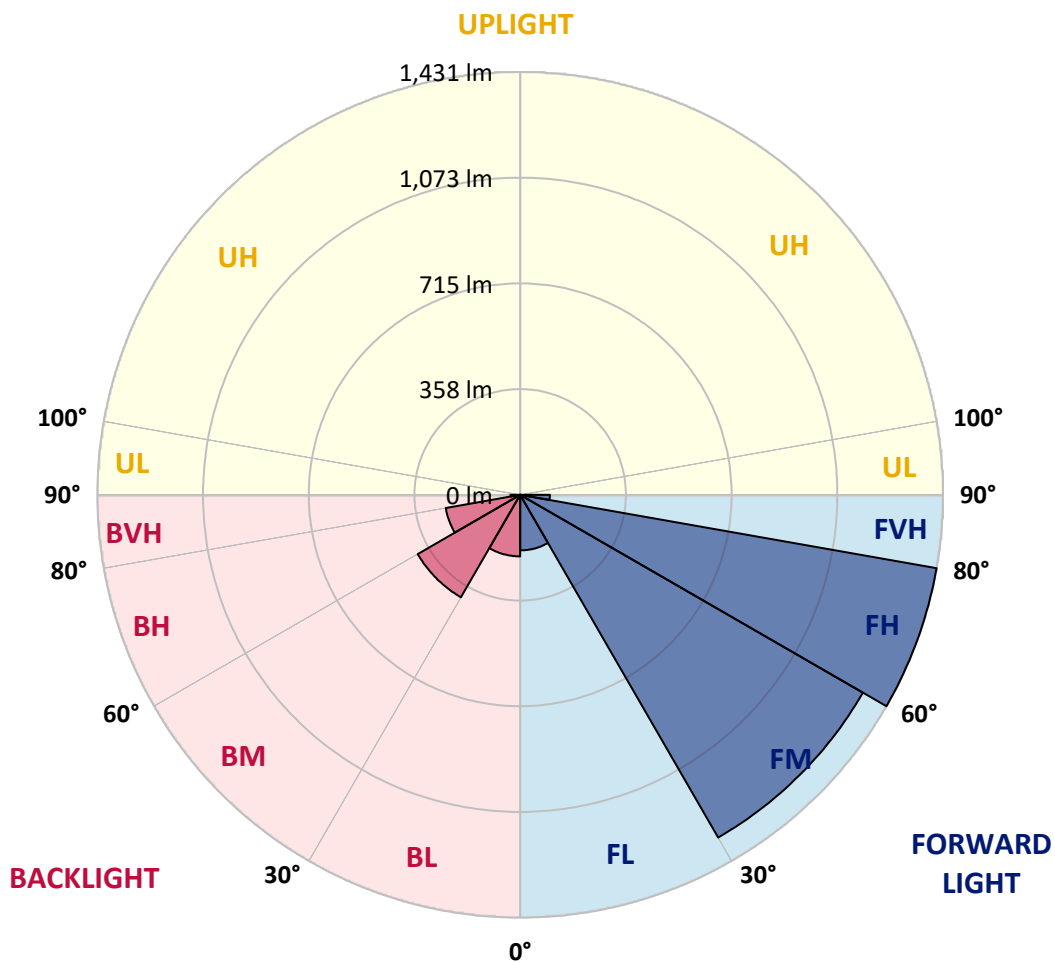
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.1	4.8			
FM	(30°-60°)	1338.9	33.9			
FH	(60°-80°)	1430.5	36.2			G1/1800
FVH	(80°-90°)	100.6	2.5			G2/225
BL	(0°-30°)	208.3	5.3	B1/500		
BM	(30°-60°)	400.2	10.1	B1/1000		
BH	(60°-80°)	255.6	6.5	B1/500		G1/500
BVH	(80°-90°)	32.8	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2
2.5°	401.5	399.4	399.9	399.9	402.0	403.1	403.6	405.2	406.2	408.8	412.5
5°	382.7	381.1	381.7	382.2	385.8	389.5	392.6	394.7	397.9	402.0	407.2
7.5°	369.1	368.1	368.6	369.7	372.8	377.0	382.2	385.3	390.0	397.9	406.7
10°	359.2	359.2	359.7	361.8	365.0	370.2	374.4	378.0	387.4	401.5	415.1
12.5°	351.4	351.4	352.9	357.1	362.3	367.6	377.5	381.7	394.2	413.5	429.7
15°	350.9	351.4	351.9	355.6	361.3	372.8	387.4	393.7	408.8	431.8	450.6
17.5°	359.2	359.7	357.6	358.7	365.5	381.7	401.0	408.3	427.6	452.7	472.0
20°	384.8	384.8	378.5	372.8	377.5	395.2	417.2	424.5	445.9	473.6	492.9
22.5°	437.0	439.6	425.0	412.5	405.2	415.1	434.9	442.8	466.8	496.5	515.8
25°	500.2	502.8	483.0	465.2	451.6	450.1	463.1	471.5	491.3	522.1	538.3
27.5°	561.3	556.6	538.3	521.6	504.4	490.3	500.2	507.5	530.5	554.0	563.9
30°	609.3	605.7	587.9	575.9	559.7	541.4	535.7	543.5	562.3	584.2	589.5
32.5°	662.6	660.0	642.2	626.5	613.0	595.7	583.2	586.9	597.3	613.0	616.1
35°	730.4	736.2	717.4	685.5	670.4	653.7	644.8	645.9	653.7	663.6	658.4
37.5°	802.0	808.8	809.8	759.7	739.3	724.2	714.8	718.4	727.8	734.6	718.4
40°	934.6	927.8	900.6	863.6	832.2	817.6	804.6	804.1	810.8	822.9	793.6
42.5°	1110.5	1104.3	1049.4	1001.4	951.8	935.1	909.5	898.6	901.7	916.8	876.1
45°	1279.2	1276.6	1232.7	1176.8	1117.3	1085.0	1026.5	999.8	997.2	1009.2	960.7
47.5°	1429.0	1417.5	1385.7	1342.4	1336.1	1251.5	1143.9	1107.9	1095.4	1102.2	1047.9
50°	1589.3	1550.2	1506.3	1479.7	1525.1	1446.3	1262.5	1224.9	1194.1	1198.8	1142.4
52.5°	1674.4	1608.6	1579.9	1587.7	1648.8	1618.6	1391.4	1345.5	1295.9	1302.7	1236.4
55°	1601.3	1600.8	1613.3	1661.9	1747.0	1712.0	1514.1	1462.4	1408.1	1409.7	1344.4
57.5°	1501.1	1521.4	1586.2	1693.2	1868.6	1810.2	1634.7	1579.9	1530.3	1522.5	1467.1
60°	1409.7	1432.2	1526.1	1688.0	1910.9	1900.0	1749.6	1701.6	1661.4	1638.4	1596.1
62.5°	1270.8	1287.5	1420.7	1654.6	1875.4	1964.7	1866.0	1833.1	1802.9	1755.3	1735.0
65°	1107.4	1113.1	1253.6	1544.4	1831.1	1989.8	1981.9	1967.3	1938.1	1868.1	1872.3
67.5°	930.4	941.9	1065.1	1368.5	1733.9	1978.3	2071.7	2083.8	2049.3	1944.3	1960.0
70°	741.9	756.0	849.5	1125.2	1569.0	1928.7	2154.8	2174.1	2107.8	1969.4	1976.2
72.5°	458.9	472.5	535.2	781.6	1243.7	1762.1	2180.3	2205.4	2109.3	1936.0	1870.7
75°	158.7	160.3	209.4	374.9	738.3	1330.3	2096.8	2155.8	2043.0	1814.3	1627.9
77.5°	72.6	75.2	92.9	154.5	327.4	717.9	1731.3	1879.1	1841.5	1624.3	1253.1
80°	50.1	51.2	64.2	92.4	189.0	252.7	1092.8	1285.4	1351.2	1257.8	803.0
82.5°	37.6	38.6	49.6	62.7	136.3	122.7	416.1	597.3	742.4	728.9	335.7
85°	36.0	35.5	38.6	41.8	90.8	73.1	134.7	184.8	289.8	248.0	84.6
87.5°	15.7	17.2	39.7	23.5	47.5	33.9	58.5	68.4	88.2	76.8	30.3
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°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2
2.5°	414.0	415.1	418.2	422.9	425.5	430.7	434.4	436.5	438.1	438.6	438.6
5°	410.4	412.5	419.3	427.1	434.4	445.4	455.3	461.0	465.2	466.8	467.3
7.5°	411.4	416.6	426.6	438.1	447.5	461.5	473.6	485.0	494.4	498.1	498.1
10°	421.3	428.7	442.2	457.4	469.4	484.0	496.5	506.4	517.4	523.7	524.7
12.5°	436.5	445.4	463.1	479.8	493.4	504.9	516.4	523.7	528.9	533.6	534.6
15°	457.9	468.9	486.6	503.8	515.8	523.2	526.3	526.3	525.8	526.3	527.3
17.5°	479.3	489.7	507.5	524.7	530.5	526.3	522.6	521.6	521.1	520.0	520.5
20°	500.2	510.1	525.2	538.3	533.6	519.0	514.3	513.8	512.2	511.1	510.1
22.5°	521.1	528.4	540.9	545.6	526.8	505.9	500.2	497.1	495.0	492.4	489.7
25°	545.1	547.2	556.6	549.3	510.1	481.9	473.6	468.9	466.8	464.2	462.1
27.5°	567.5	567.5	569.1	543.5	485.6	450.1	437.5	429.2	428.7	428.1	427.6
30°	587.9	585.3	580.1	526.3	453.7	410.9	392.1	383.8	386.9	389.5	390.0
32.5°	611.9	606.7	592.1	502.8	415.6	367.0	344.1	340.4	344.1	347.2	345.1
35°	649.5	640.1	604.6	475.6	379.1	326.8	304.9	299.7	298.6	298.1	293.9
37.5°	703.3	687.1	614.5	446.4	343.0	291.3	275.2	264.2	254.3	243.8	242.3
40°	769.1	741.4	621.3	413.0	304.9	261.6	244.3	230.3	213.5	195.3	193.2
42.5°	841.1	799.9	624.4	375.9	271.5	237.0	215.6	197.9	179.1	165.0	162.4
45°	918.9	863.1	621.8	340.4	244.3	216.2	192.1	172.8	157.7	147.8	145.7
47.5°	994.6	935.6	614.5	312.2	223.5	198.4	173.9	156.1	144.6	133.7	131.1
50°	1091.7	1005.1	605.7	290.3	200.5	180.7	162.4	143.6	130.5	125.3	124.3
52.5°	1199.3	1074.5	595.2	262.6	178.0	166.6	155.1	138.4	134.2	124.3	122.7
55°	1315.7	1157.0	593.1	227.6	158.2	156.6	147.8	143.1	144.1	124.3	121.7
57.5°	1438.4	1245.2	597.8	192.7	142.0	147.8	150.9	147.2	145.7	126.9	121.7
60°	1566.3	1330.3	583.7	160.3	129.5	140.4	154.5	145.1	133.7	125.8	122.2
62.5°	1690.6	1401.9	522.6	137.3	120.1	138.4	152.5	137.3	124.3	124.3	122.7
65°	1780.9	1433.7	408.8	120.6	113.8	135.7	148.8	132.1	121.7	125.3	123.2
67.5°	1791.4	1400.8	274.6	107.6	108.6	131.1	140.4	127.4	119.0	128.4	125.3
70°	1727.2	1315.2	168.1	97.6	101.8	122.7	133.1	122.7	115.4	125.8	121.1
72.5°	1560.6	1155.4	118.5	89.3	94.5	114.9	126.4	118.5	110.2	113.8	109.1
75°	1280.2	895.4	94.0	81.4	87.2	107.6	120.6	112.3	103.9	102.3	99.2
77.5°	906.9	573.8	75.7	75.2	79.4	98.7	112.8	104.9	96.6	93.5	91.4
80°	521.6	281.4	65.3	67.9	72.1	89.8	103.4	96.6	88.8	84.1	80.9
82.5°	199.4	98.2	57.4	59.0	63.7	80.4	94.0	88.2	80.4	84.6	71.0
85°	64.7	53.8	47.0	48.6	53.3	66.8	83.0	78.3	69.4	61.6	56.9
87.5°	28.7	29.2	25.1	27.7	33.4	44.4	60.6	57.4	50.6	42.3	40.7
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)