

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: P299157

Luminaire Tested: **GAA-AF-01-LED-U-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-01-LED-U-T3-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4095.6 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

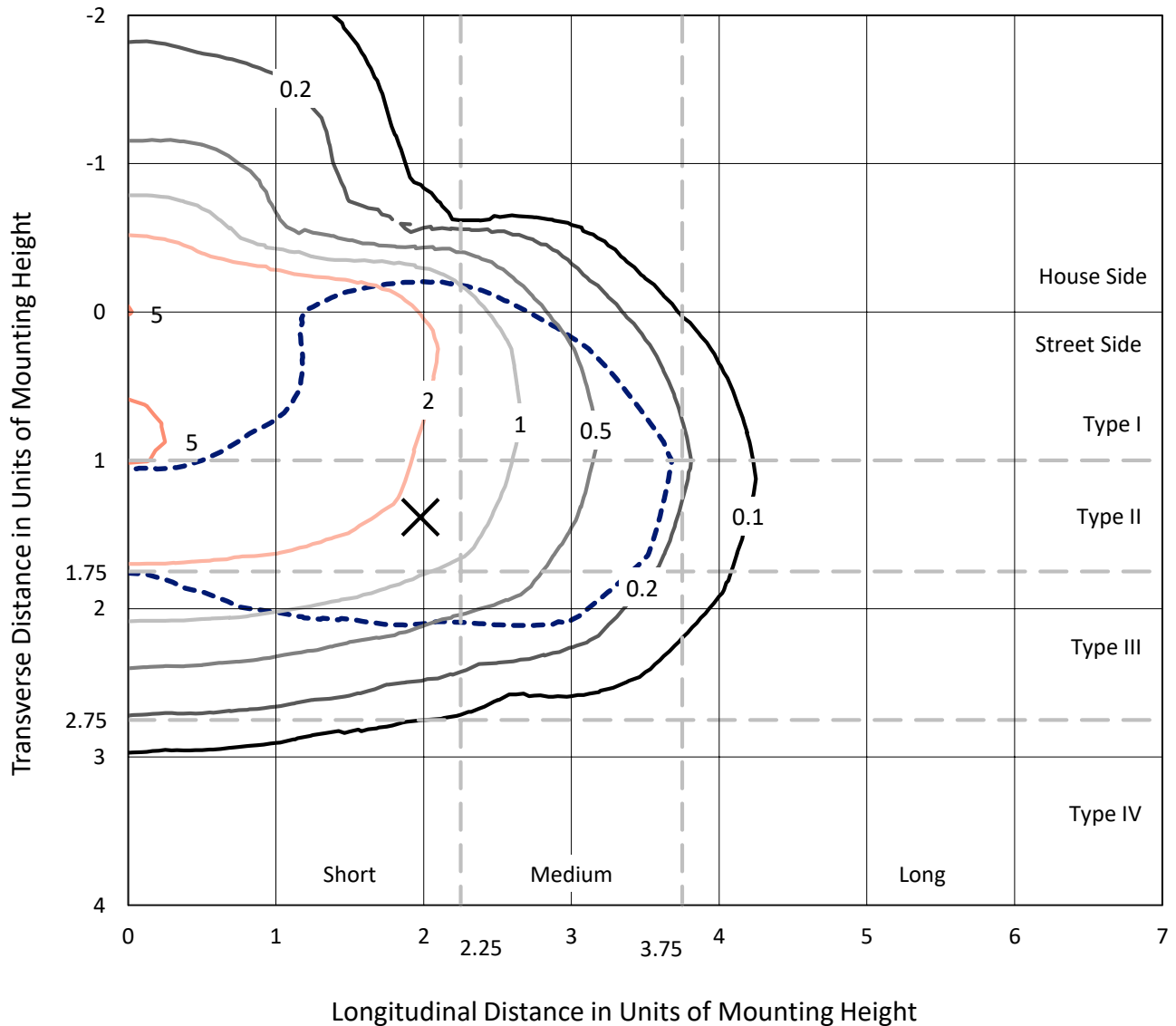
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

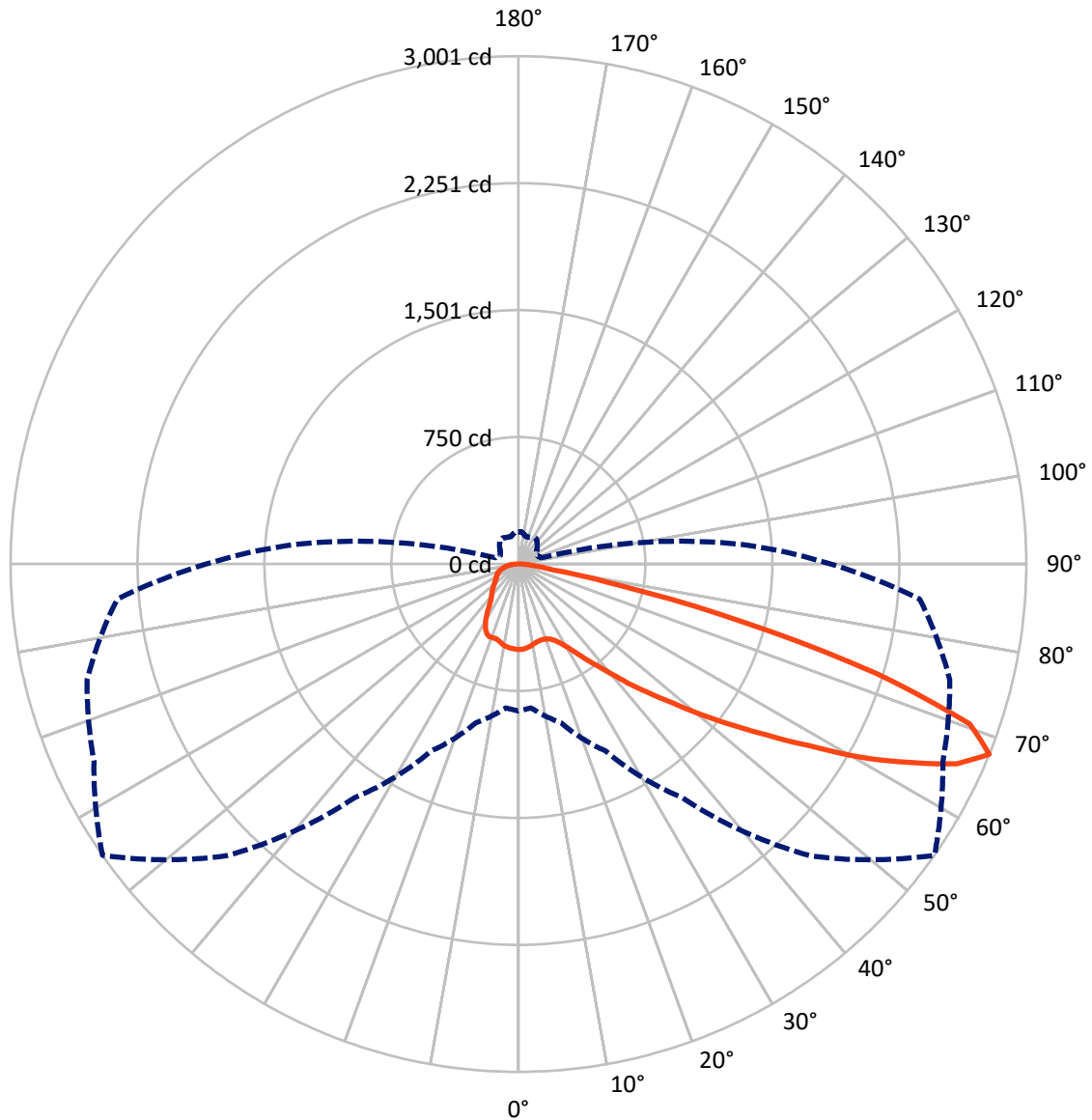
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.7	0.0	884.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3210.9	0.0	3210.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	4095.6	0.0	4095.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.2
10°-20°	133.5	3.3
20°-30°	223.6	5.5
30°-40°	367.8	9.0
40°-50°	619.1	15.1
50°-60°	974.3	23.8
60°-70°	1162.8	28.4
70°-80°	499.3	12.2
80°-90°	68.1	1.7
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°	4095.6	100.0
0°-180°	4095.6	100.0

Coefficient of Utilization



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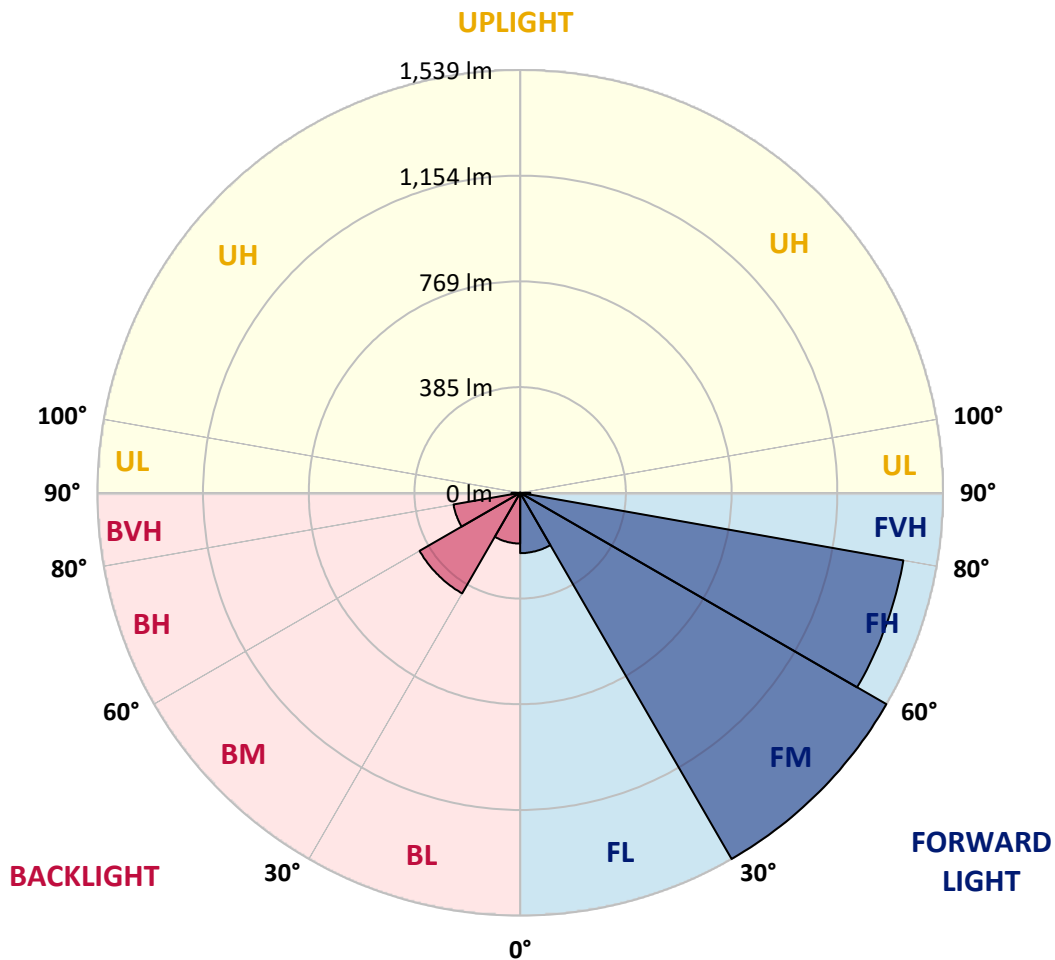
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.5	5.4			
FM	(30°-60°)	1538.6	37.6			
FH	(60°-80°)	1415.9	34.6			G1/1800
FVH	(80°-90°)	36.9	0.9			G1/100
BL	(0°-30°)	184.8	4.5	B1/500		
BM	(30°-60°)	422.5	10.3	B1/1000		
BH	(60°-80°)	246.2	6.0	B1/500		G1/500
BVH	(80°-90°)	31.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0
2.5°	500.7	500.9	501.3	502.9	504.2	503.8	504.0	503.3	503.1	501.9	503.1
5°	494.4	494.9	495.1	497.7	499.3	499.7	499.1	498.1	496.9	495.7	496.3
7.5°	479.9	481.5	481.7	485.3	487.8	491.2	491.4	491.6	491.0	490.2	491.4
10°	470.8	471.2	471.0	473.6	475.6	479.3	481.5	485.3	486.8	487.2	488.0
12.5°	470.2	469.8	469.2	469.2	468.6	470.2	474.2	479.5	483.3	484.5	485.5
15°	476.5	476.4	474.4	471.4	467.6	466.5	469.8	475.8	480.7	483.3	484.3
17.5°	490.8	489.6	486.4	479.7	471.6	468.4	468.8	473.8	479.5	482.9	483.9
20°	516.9	516.9	510.2	497.5	483.1	475.6	472.0	475.0	480.5	485.1	486.4
22.5°	562.0	562.4	551.1	530.4	506.0	490.0	481.1	480.5	487.0	492.2	493.8
25°	625.9	624.3	608.5	578.8	541.8	515.3	499.9	496.3	501.9	507.6	509.6
27.5°	700.3	694.5	675.8	639.9	592.1	553.3	529.6	523.8	529.2	535.7	537.7
30°	773.9	767.9	745.6	706.4	653.2	604.1	570.1	560.8	568.3	577.6	578.8
32.5°	847.5	847.5	822.5	776.8	718.9	664.9	624.1	613.0	625.5	636.8	639.4
35°	935.5	935.9	911.8	856.8	794.4	737.3	692.4	684.3	703.1	711.0	717.1
37.5°	1043.7	1045.9	1014.8	948.3	880.1	820.0	766.6	755.5	774.3	795.8	815.6
40°	1160.6	1163.4	1129.2	1047.3	979.0	916.1	858.3	838.4	869.6	910.8	936.3
42.5°	1272.2	1286.4	1253.4	1169.1	1095.7	1030.6	972.1	943.0	982.2	1044.3	1066.4
45°	1433.4	1443.7	1386.1	1309.8	1240.7	1167.9	1090.4	1059.7	1114.5	1192.9	1197.4
47.5°	1540.8	1533.1	1503.8	1456.4	1412.6	1344.6	1227.9	1194.2	1267.0	1359.2	1333.7
50°	1598.0	1600.4	1596.4	1599.2	1600.8	1558.0	1396.4	1350.3	1437.2	1548.5	1489.8
52.5°	1651.4	1635.6	1648.6	1713.5	1791.9	1776.0	1579.8	1531.7	1619.6	1758.6	1654.8
55°	1650.2	1626.1	1668.6	1783.1	1953.1	1971.3	1785.7	1730.3	1812.4	1983.9	1829.6
57.5°	1591.9	1593.0	1658.5	1808.5	2065.4	2154.9	2024.7	1941.6	2017.0	2212.2	1989.3
60°	1511.5	1522.4	1616.8	1804.3	2155.4	2305.4	2317.9	2169.3	2217.4	2419.7	2121.4
62.5°	1382.0	1393.4	1523.6	1761.2	2141.8	2450.4	2582.9	2427.6	2426.9	2545.5	2160.2
65°	1177.6	1174.3	1311.0	1600.0	2027.3	2557.6	2846.2	2651.0	2584.7	2547.5	2082.3
67.5°	868.4	853.4	970.7	1218.6	1685.0	2437.5	3001.1	2767.3	2638.5	2380.0	1844.1
70°	450.6	435.6	530.6	711.6	1108.2	1902.4	2829.6	2707.2	2519.6	1995.0	1444.7
72.5°	192.7	190.1	228.7	312.2	536.1	1097.3	2218.7	2343.2	2162.0	1486.4	993.3
75°	129.6	128.8	143.2	170.1	241.1	445.3	1388.5	1663.3	1581.8	921.6	558.6
77.5°	101.7	100.7	109.2	122.3	156.3	175.7	616.2	893.0	826.5	401.2	244.5
80°	79.5	78.7	84.1	91.2	112.4	110.8	202.8	355.3	275.0	153.7	118.9
82.5°	62.7	62.7	67.1	67.3	79.7	75.6	105.8	156.5	137.3	89.6	72.8
85°	57.4	57.4	61.9	50.2	52.0	47.7	65.7	92.8	87.0	36.8	31.7
87.5°	28.9	28.1	52.0	44.5	28.3	25.3	32.0	44.9	48.3	20.4	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0
2.5°	502.7	502.5	502.9	503.1	504.6	506.8	507.8	509.2	510.0	509.6
5°	496.7	497.1	498.7	499.9	502.7	506.2	508.2	509.8	511.2	510.6
7.5°	491.8	492.8	495.1	496.1	497.7	498.7	498.5	499.1	500.3	498.9
10°	489.0	490.2	492.0	490.6	486.8	481.5	476.5	474.0	474.8	473.8
12.5°	486.2	487.8	486.4	479.9	469.4	462.5	458.7	459.1	460.9	461.3
15°	484.7	485.3	479.3	467.1	456.4	455.4	457.4	457.0	457.2	457.2
17.5°	484.7	483.1	472.0	459.7	455.2	453.4	447.3	439.6	436.2	435.0
20°	487.2	483.1	469.6	461.5	451.6	436.4	420.2	405.9	399.6	397.8
22.5°	494.9	487.8	476.4	462.3	434.2	408.7	383.0	366.0	354.5	352.5
25°	510.6	502.7	489.6	451.8	406.5	370.1	340.8	321.9	310.4	308.8
27.5°	537.9	532.7	496.7	428.7	369.7	330.8	303.7	289.0	280.5	279.9
30°	579.0	576.4	493.2	394.5	324.4	292.6	279.5	271.0	264.7	264.5
32.5°	644.7	623.9	481.5	352.7	283.1	265.5	260.1	255.0	250.0	250.0
35°	729.2	662.3	459.3	308.0	258.0	250.4	243.7	235.6	229.1	228.7
37.5°	828.5	686.0	419.6	272.0	246.1	240.4	230.5	218.4	206.9	204.9
40°	928.8	693.2	363.6	249.8	238.6	230.3	218.2	204.0	192.9	192.3
42.5°	1020.8	679.5	304.2	234.6	231.1	220.0	207.3	194.7	186.0	185.8
45°	1097.9	644.1	254.4	220.2	223.1	210.7	199.4	189.1	182.4	181.0
47.5°	1170.5	594.1	219.4	204.9	215.2	205.5	196.0	186.3	179.8	178.8
50°	1254.8	540.0	194.9	190.1	208.3	203.8	198.8	188.7	177.8	176.7
52.5°	1356.8	493.4	175.7	177.0	203.0	206.1	205.9	195.4	176.5	174.9
55°	1470.8	441.5	161.2	166.4	200.8	210.5	207.7	201.8	177.6	175.3
57.5°	1583.0	381.0	151.1	158.3	197.6	210.1	199.2	190.7	180.4	177.0
60°	1667.0	299.7	143.4	151.1	190.7	203.6	189.9	178.6	179.8	177.2
62.5°	1672.6	231.6	134.1	145.0	180.2	197.0	183.8	173.3	182.4	180.0
65°	1574.3	175.1	125.2	137.7	168.9	192.9	177.8	170.3	187.7	185.2
67.5°	1325.4	140.8	117.7	130.2	157.7	184.2	172.5	167.6	192.5	187.9
70°	956.9	120.1	110.4	121.1	147.6	174.3	167.8	162.6	179.6	172.5
72.5°	589.1	104.1	102.1	109.0	139.9	164.0	160.6	153.3	161.8	156.1
75°	294.2	90.2	92.8	97.1	129.0	152.3	148.8	141.4	142.6	141.4
77.5°	140.8	77.1	81.9	85.3	114.9	139.1	135.3	127.8	126.4	126.6
80°	89.2	64.5	69.0	71.4	102.7	123.6	119.9	112.4	128.2	118.9
82.5°	55.8	52.4	53.6	58.0	89.4	107.6	102.7	95.9	115.5	91.4
85°	30.9	36.6	38.2	41.9	68.8	90.0	85.1	76.6	68.6	67.5
87.5°	18.4	21.8	22.4	25.1	46.3	65.1	57.6	54.6	45.3	45.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)