

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: P193329

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5MQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3520 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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



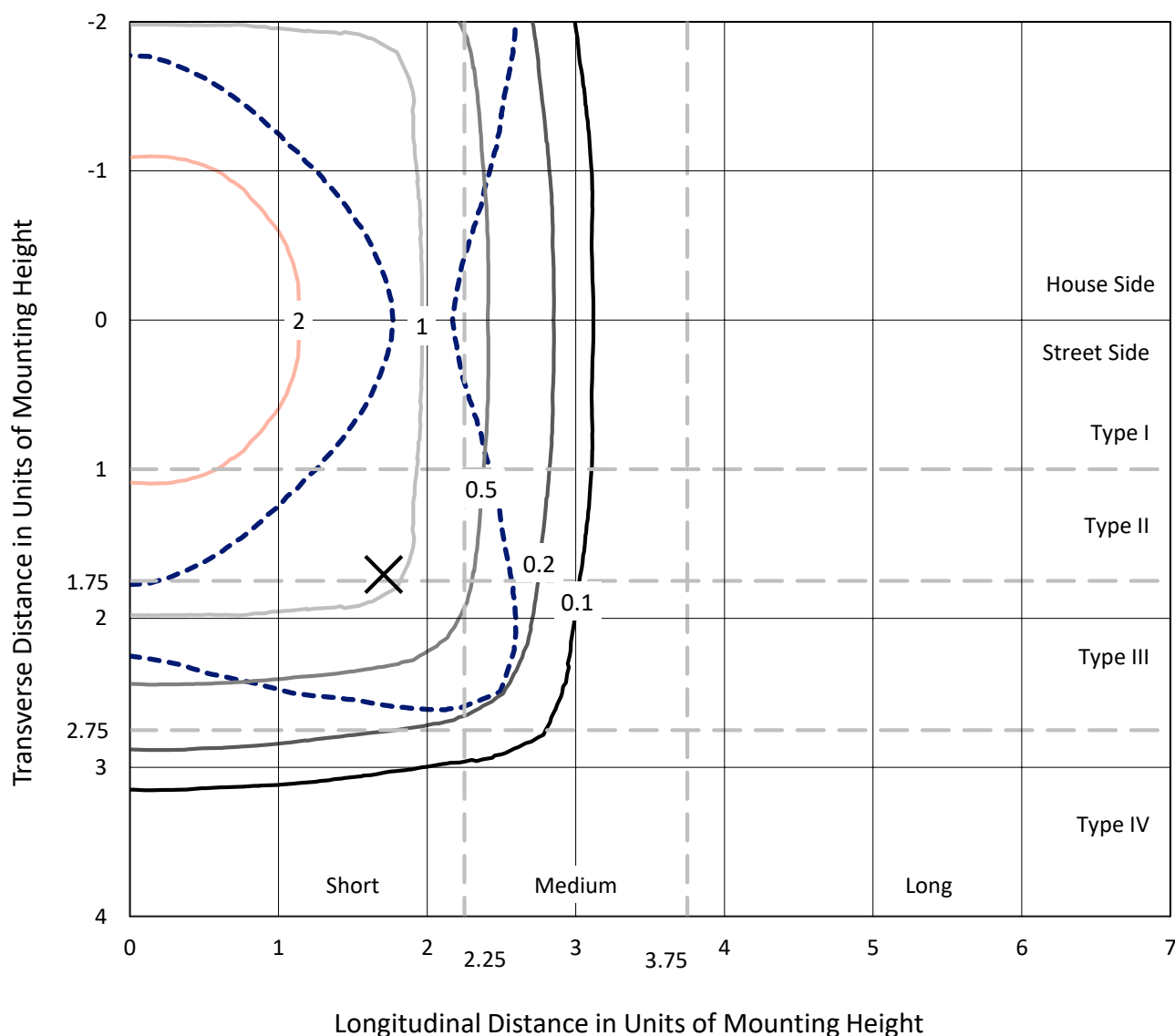
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

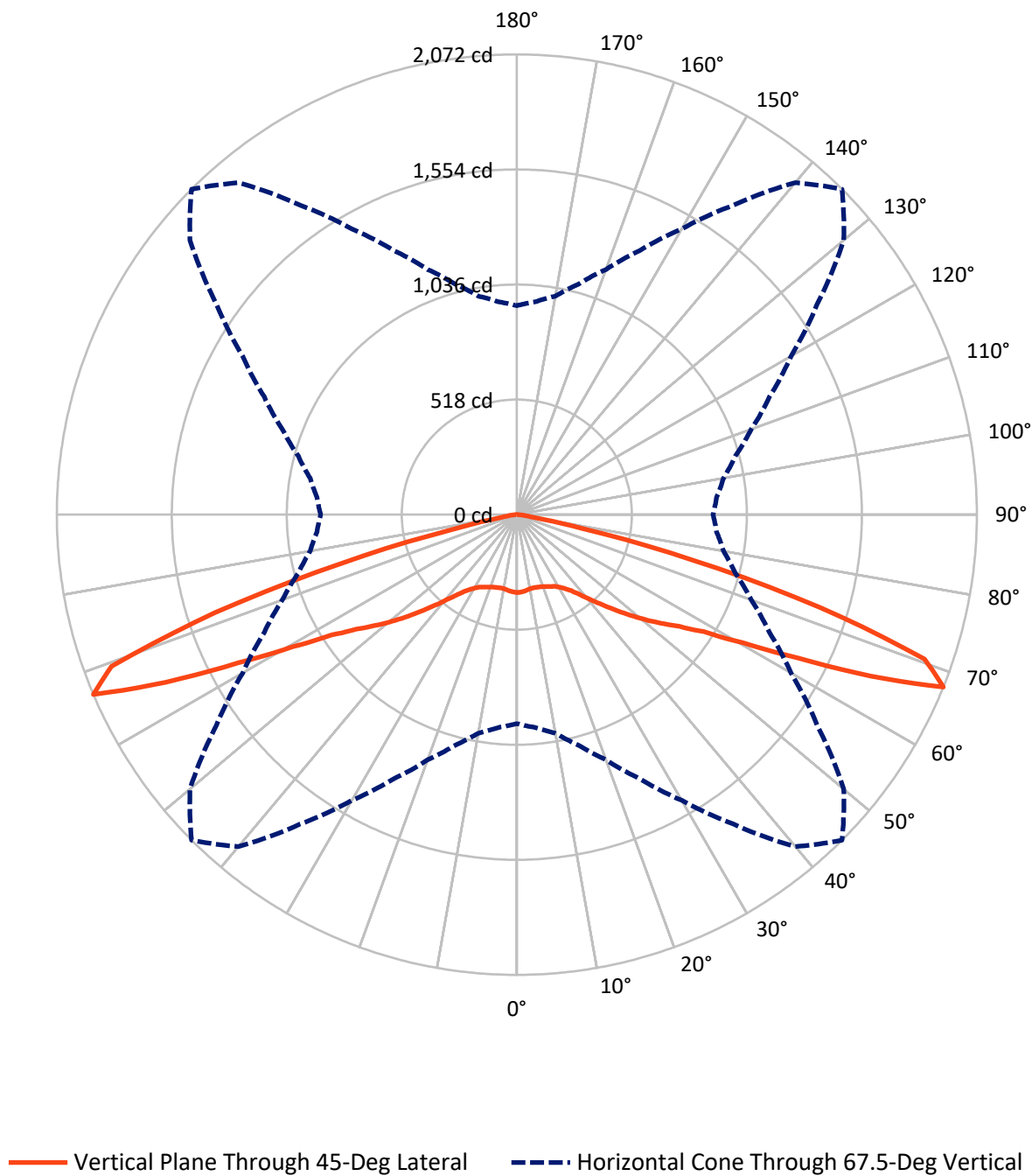


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1760.0	0.0	1760.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1760.0	0.0	1760.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3520.0	0.0	3520.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	0.9
10°-20°	95.3	2.7
20°-30°	162.0	4.6
30°-40°	264.8	7.5
40°-50°	472.6	13.4
50°-60°	796.9	22.6
60°-70°	1236.6	35.1
70°-80°	434.5	12.3
80°-90°	24.6	0.7
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°	3520.0	100.0
0°-180°	3520.0	100.0



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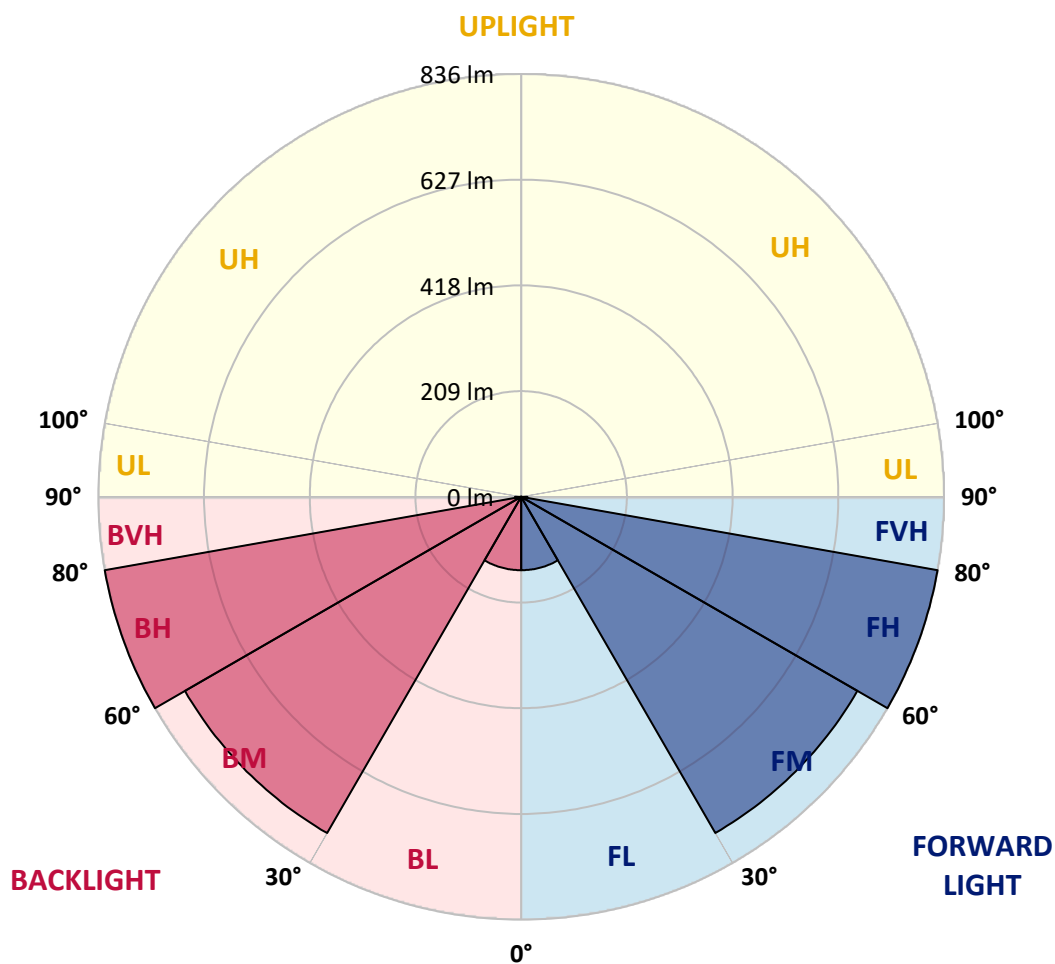
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.0	4.1			
FM	(30°-60°)	767.1	21.8			
FH	(60°-80°)	835.6	23.7			G1/1800
FVH	(80°-90°)	12.3	0.3			G1/100
BL	(0°-30°)	145.0	4.1	B1/500		
BM	(30°-60°)	767.1	21.8	B1/1000		
BH	(60°-80°)	835.6	23.7	B2/1000		G1/1800
BVH	(80°-90°)	12.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	350.8	350.8	350.8	350.8	350.8	350.8	350.8	350.8	350.8	350.8	350.8
2.5°	349.5	349.8	349.8	349.8	349.6	349.6	349.3	349.6	349.5	349.0	349.2
5°	346.6	346.9	346.9	346.7	347.2	347.1	346.6	346.9	346.7	346.4	346.6
7.5°	342.4	342.9	342.9	342.7	343.2	343.0	342.7	342.9	342.9	342.4	342.4
10°	337.7	338.0	338.0	337.8	338.6	338.6	338.5	339.0	339.1	338.6	338.3
12.5°	333.3	333.8	333.8	334.4	335.2	335.6	336.4	337.0	337.7	337.5	336.9
15°	330.7	331.0	331.7	332.5	333.8	334.9	336.2	337.7	339.0	339.3	338.3
17.5°	329.1	329.6	330.5	331.7	333.5	335.4	337.3	339.3	341.1	341.7	340.6
20°	328.6	328.9	329.9	331.8	334.3	337.2	339.9	342.2	344.6	345.4	344.6
22.5°	329.6	330.2	331.4	333.6	336.9	340.6	343.8	346.9	350.0	351.4	350.3
25°	333.9	334.6	336.1	339.0	342.5	346.4	350.1	353.7	356.4	357.9	357.1
27.5°	342.0	342.9	344.6	347.5	351.4	355.6	359.7	362.6	364.9	365.4	364.4
30°	354.2	356.0	358.1	361.3	365.8	369.4	373.4	376.0	378.8	378.8	378.0
32.5°	373.1	374.9	377.2	380.2	383.8	387.7	391.3	393.5	396.4	396.6	394.7
35°	401.4	402.3	404.2	406.1	409.4	412.8	415.9	417.3	419.7	419.9	418.1
37.5°	438.8	439.0	440.3	440.9	443.9	447.6	450.5	451.5	453.7	453.4	451.6
40°	482.4	483.2	483.7	484.7	487.7	491.3	494.4	494.9	497.3	496.8	494.5
42.5°	532.7	533.1	535.8	537.3	540.2	542.0	545.8	546.3	549.2	547.9	545.4
45°	589.2	592.1	594.7	597.6	600.7	602.8	605.9	605.3	607.2	605.3	603.8
47.5°	648.6	650.7	656.6	661.1	666.1	667.9	672.3	670.3	672.3	669.5	669.0
50°	714.0	717.8	722.8	728.0	733.3	736.2	741.9	739.4	742.0	739.4	738.0
52.5°	778.5	779.4	790.4	798.0	805.5	808.9	812.3	811.2	811.3	811.2	809.7
55°	839.6	841.9	852.9	863.3	876.2	885.8	891.6	891.0	889.5	888.0	885.6
57.5°	908.6	910.9	923.5	936.3	951.0	964.6	976.4	988.6	993.3	994.6	989.2
60°	1001.8	1001.7	1018.5	1034.1	1055.1	1075.3	1101.2	1127.6	1157.9	1172.0	1153.4
62.5°	1096.7	1100.6	1124.9	1152.4	1195.8	1238.0	1285.8	1332.7	1380.6	1419.6	1378.2
65°	1085.4	1100.3	1136.4	1198.7	1278.8	1374.0	1476.9	1585.9	1684.3	1752.0	1676.1
67.5°	940.7	961.9	998.6	1074.4	1174.6	1311.8	1484.7	1700.2	1950.6	2071.7	1921.6
70°	681.8	705.8	744.3	818.3	917.5	1048.0	1235.8	1494.4	1825.9	1948.0	1782.7
72.5°	339.3	352.2	376.0	423.1	498.3	604.1	774.4	1023.0	1316.4	1428.4	1277.4
75°	115.3	121.2	125.3	140.7	164.5	206.1	290.7	447.3	682.3	818.0	672.6
77.5°	66.5	66.7	69.4	72.2	76.2	80.8	92.1	120.9	209.1	297.0	216.4
80°	43.1	42.9	45.2	47.3	50.0	52.3	52.9	56.0	64.6	76.6	68.5
82.5°	22.3	25.1	30.1	32.9	38.0	39.0	37.7	36.6	38.7	40.1	41.1
85°	12.3	10.7	16.0	20.7	23.0	23.3	23.3	22.0	22.8	22.3	24.3
87.5°	5.7	5.2	6.3	10.2	10.8	9.2	9.7	8.6	6.2	6.0	6.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	350.8	350.8	350.8	350.8	350.8	350.8	350.8	350.8
2.5°	349.2	349.3	349.3	349.8	350.0	350.3	350.6	350.8
5°	346.4	346.9	346.6	347.1	347.1	347.4	347.4	347.5
7.5°	342.4	342.9	342.9	342.9	342.7	343.2	343.2	343.2
10°	338.2	338.5	338.3	338.0	337.7	338.2	338.0	337.8
12.5°	336.9	336.1	335.4	335.1	334.4	334.6	334.1	334.1
15°	337.7	336.2	335.1	334.6	333.9	333.6	333.3	333.5
17.5°	339.8	338.0	336.5	335.7	334.9	334.4	333.8	333.9
20°	343.5	341.4	339.3	337.7	336.2	335.4	334.9	334.8
22.5°	349.0	345.9	342.9	340.4	338.5	337.3	336.9	336.5
25°	355.3	351.9	348.4	345.6	343.7	342.2	341.2	341.2
27.5°	363.2	360.5	357.3	354.0	352.2	350.8	350.1	349.8
30°	376.5	373.9	371.3	368.3	366.0	364.5	363.4	362.4
32.5°	393.5	391.4	389.3	387.0	384.9	383.0	381.2	380.4
35°	417.5	415.9	414.4	411.8	411.0	409.9	408.9	408.1
37.5°	450.5	449.9	449.9	447.1	446.5	446.0	445.0	445.2
40°	493.9	494.5	493.7	492.7	492.3	491.0	491.0	492.1
42.5°	545.2	545.7	547.5	545.8	547.6	546.0	545.0	545.8
45°	604.8	606.5	610.1	608.5	609.6	606.9	603.5	603.6
47.5°	671.6	673.2	674.7	673.6	673.7	669.2	664.7	663.5
50°	741.1	741.7	742.5	740.9	741.2	736.2	731.0	731.2
52.5°	809.7	812.8	816.0	811.6	810.7	805.0	797.7	794.8
55°	888.2	892.6	888.9	881.2	873.6	866.0	856.5	854.9
57.5°	985.0	977.6	965.9	951.5	941.0	930.3	920.6	916.5
60°	1119.7	1091.7	1070.6	1049.3	1035.8	1022.7	1009.9	1008.0
62.5°	1310.1	1261.7	1219.7	1175.5	1139.4	1111.3	1088.8	1082.5
65°	1548.7	1434.2	1335.0	1242.4	1161.9	1101.2	1063.0	1046.2
67.5°	1651.3	1425.3	1255.2	1123.7	1018.5	945.0	903.7	883.2
70°	1451.0	1182.0	997.0	865.4	769.6	691.2	653.8	631.8
72.5°	998.3	751.9	594.6	485.3	408.7	343.2	317.3	315.3
75°	448.2	296.9	204.6	157.7	132.7	115.4	110.1	106.0
77.5°	125.5	92.8	82.7	77.4	72.2	66.2	63.9	64.4
80°	61.0	57.6	55.4	52.0	47.3	42.2	40.0	41.0
82.5°	40.5	40.0	41.4	39.0	32.2	27.4	23.0	21.0
85°	24.6	24.9	25.4	25.6	21.7	15.2	10.4	11.7
87.5°	9.7	11.2	12.1	12.6	11.8	7.3	5.8	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)