

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: P191000

Luminaire Tested: **GAN-AF-02-LED-U-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-RW-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10288.9 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

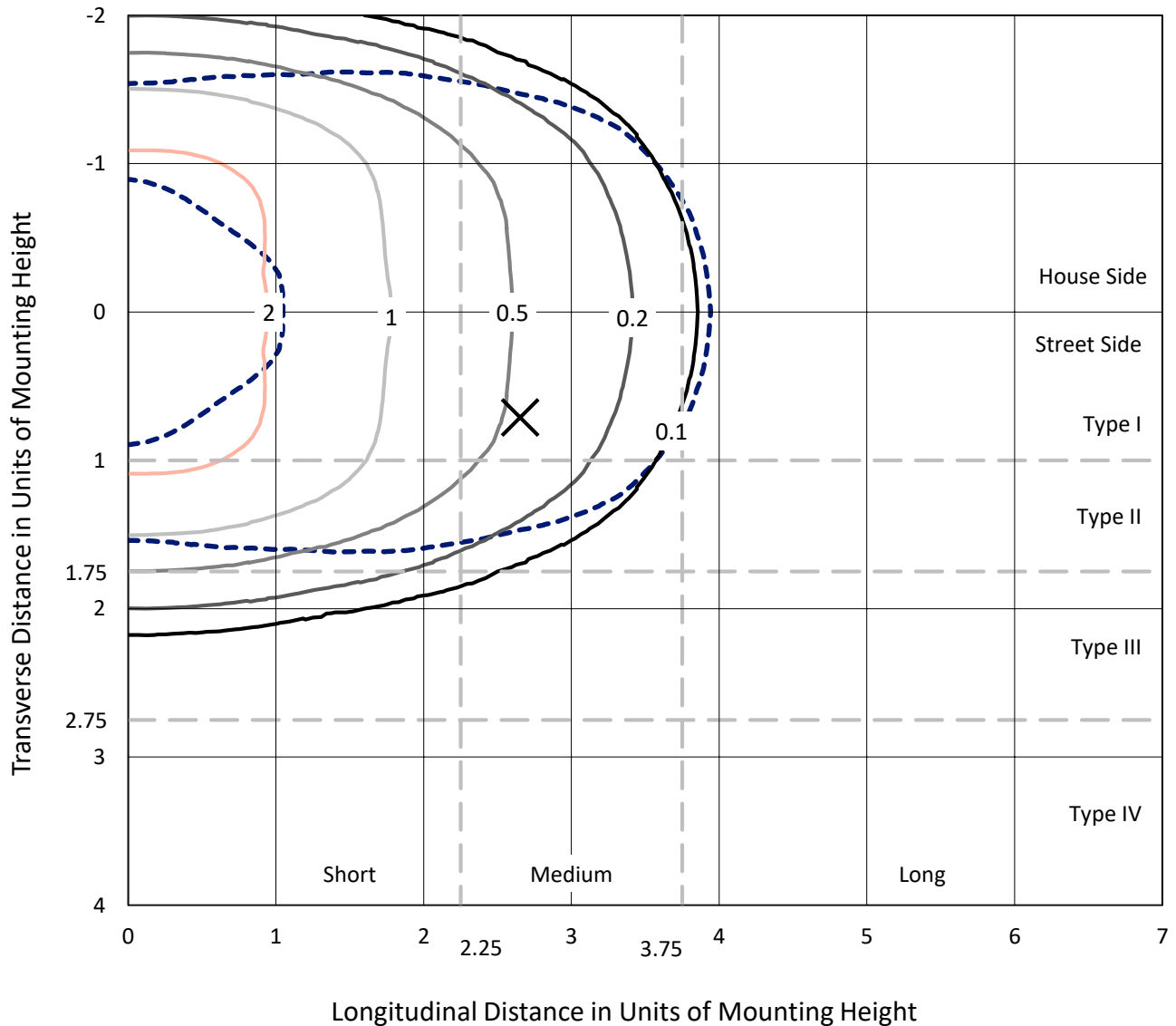
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

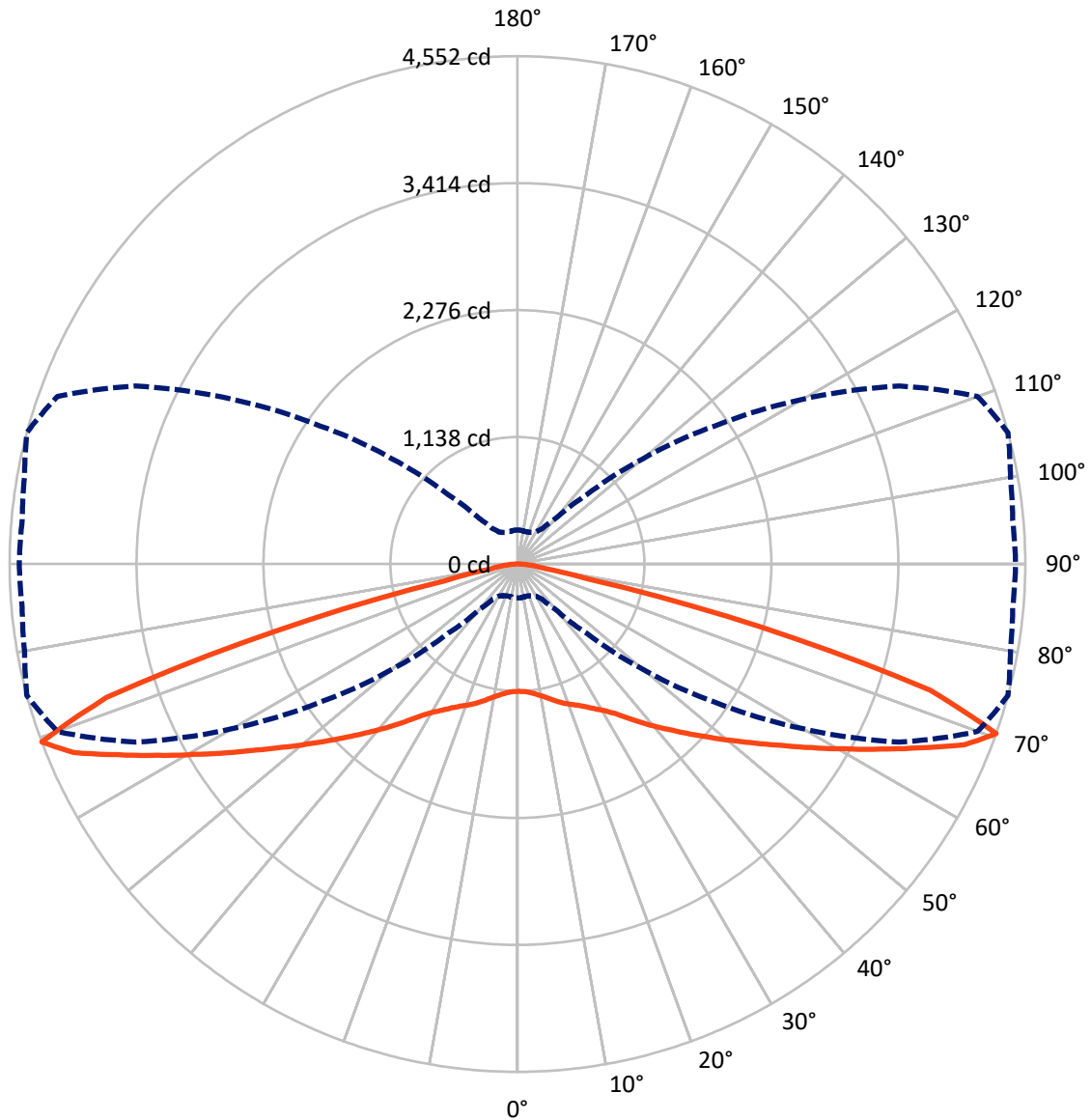
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5144.4	0.0	5144.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5144.4	0.0	5144.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10288.9	0.0	10288.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	1.1
10°-20°	340.1	3.3
20°-30°	640.1	6.2
30°-40°	1133.5	11.0
40°-50°	1895.6	18.4
50°-60°	2641.6	25.7
60°-70°	2449.6	23.8
70°-80°	976.2	9.5
80°-90°	102.6	1.0
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°	10288.9	100.0
0°-180°	10288.9	100.0



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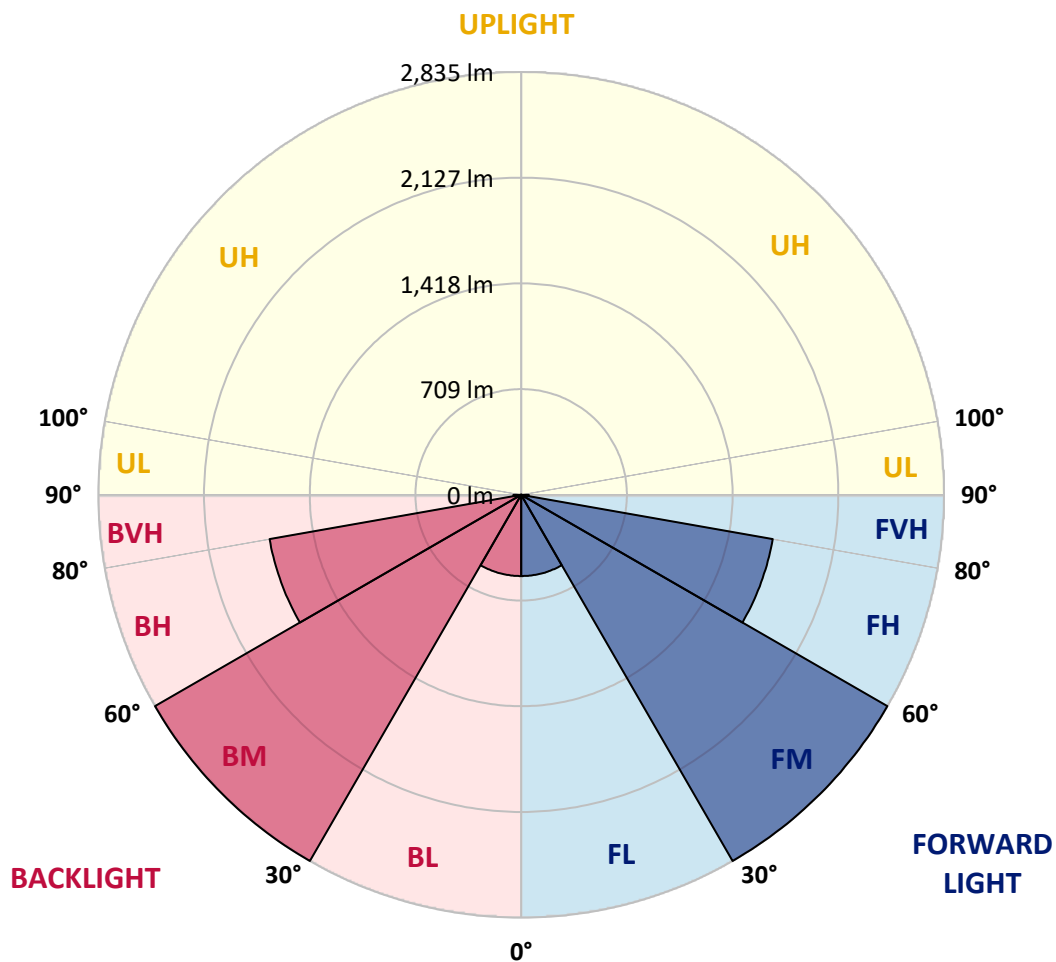
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.8	5.3			
FM	(30°-60°)	2835.3	27.6			
FH	(60°-80°)	1712.9	16.6			G1/1800
FVH	(80°-90°)	51.3	0.5			G1/100
BL	(0°-30°)	544.8	5.3	B2/1000		
BM	(30°-60°)	2835.3	27.6	B3/5000		
BH	(60°-80°)	1712.9	16.6	B3/2500		G1/1800
BVH	(80°-90°)	51.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3
2.5°	1139.4	1138.3	1139.4	1138.9	1139.8	1139.8	1140.8	1142.7	1142.7	1144.2	1143.7
5°	1128.1	1127.7	1129.1	1130.6	1132.0	1135.0	1137.8	1142.2	1145.6	1148.1	1150.5
7.5°	1106.2	1106.2	1108.2	1111.6	1115.0	1121.4	1128.1	1136.9	1145.6	1153.0	1159.3
10°	1088.3	1089.2	1091.7	1097.5	1103.4	1113.1	1122.3	1135.0	1147.1	1159.3	1169.0
12.5°	1077.6	1079.0	1083.4	1092.2	1101.9	1115.0	1129.1	1145.2	1158.8	1173.3	1183.0
15°	1081.0	1082.0	1088.3	1099.0	1111.6	1128.1	1147.1	1166.1	1182.1	1197.7	1210.8
17.5°	1100.0	1101.4	1108.7	1120.8	1133.9	1153.5	1173.8	1195.2	1215.2	1232.7	1248.7
20°	1133.9	1135.5	1144.7	1157.8	1173.3	1193.3	1213.7	1236.1	1258.4	1276.9	1295.0
22.5°	1182.1	1184.6	1193.3	1206.5	1224.0	1245.3	1269.7	1293.5	1314.9	1331.9	1347.9
25°	1245.3	1250.7	1258.9	1273.6	1292.0	1311.4	1337.7	1362.1	1382.4	1398.5	1410.1
27.5°	1334.8	1342.1	1348.5	1362.6	1380.5	1399.0	1425.3	1446.7	1466.1	1481.6	1490.4
30°	1453.4	1460.8	1467.1	1480.7	1497.2	1514.7	1539.5	1558.5	1570.6	1582.8	1582.3
32.5°	1597.4	1605.2	1607.6	1622.2	1639.2	1658.2	1680.5	1691.2	1701.0	1702.4	1693.7
35°	1758.4	1762.2	1772.0	1791.4	1810.8	1826.4	1847.9	1853.2	1853.2	1845.9	1826.4
37.5°	1934.9	1937.3	1950.9	1972.8	1992.7	2008.8	2023.4	2034.0	2028.7	2013.2	1980.5
40°	2128.4	2132.8	2152.2	2171.7	2194.0	2209.2	2224.7	2226.7	2221.2	2198.4	2154.1
42.5°	2313.2	2317.1	2336.5	2367.1	2396.4	2417.2	2431.9	2434.7	2417.7	2396.8	2341.8
45°	2472.2	2482.4	2507.7	2543.7	2586.0	2615.7	2635.5	2643.8	2628.8	2601.6	2537.8
47.5°	2598.1	2608.3	2644.3	2687.1	2739.7	2787.7	2820.9	2838.4	2834.5	2814.0	2744.5
50°	2690.6	2700.3	2739.2	2791.6	2852.9	2912.8	2969.1	3011.0	3025.6	3016.3	2952.6
52.5°	2701.2	2717.3	2763.0	2833.5	2913.3	2994.9	3075.2	3146.2	3194.3	3201.6	3154.5
55°	2552.0	2568.0	2631.2	2735.8	2854.4	2987.6	3116.0	3235.6	3330.4	3379.1	3354.3
57.5°	2199.9	2228.6	2295.2	2417.7	2592.3	2791.6	2996.4	3208.9	3401.9	3530.8	3555.6
60°	1685.9	1719.9	1787.0	1917.3	2111.9	2349.6	2622.9	2937.1	3277.9	3567.7	3740.8
62.5°	1081.5	1113.6	1184.1	1297.4	1455.9	1713.6	2006.8	2379.8	2837.9	3295.4	3707.8
65°	555.8	573.3	610.3	678.8	802.3	994.9	1258.0	1630.0	2153.7	2718.3	3314.4
67.5°	352.1	355.5	363.8	373.5	405.1	471.7	594.2	826.1	1257.0	1845.9	2543.7
70°	304.4	304.4	300.5	299.0	302.9	312.2	331.1	385.1	530.5	876.3	1467.1
72.5°	278.7	275.7	268.9	263.5	262.6	262.6	266.5	274.8	298.1	356.9	574.3
75°	256.8	248.5	239.3	232.9	230.5	228.0	227.6	229.0	233.8	243.2	274.3
77.5°	230.0	219.3	208.6	202.2	199.4	196.0	193.0	189.7	187.2	190.2	203.8
80°	197.9	185.8	177.5	173.6	170.7	165.8	159.5	153.6	148.3	147.3	155.6
82.5°	159.5	145.4	145.9	147.3	142.0	135.1	128.4	122.0	112.8	107.9	112.8
85°	128.9	121.5	118.2	127.4	119.6	109.5	98.7	87.6	72.9	61.3	66.6
87.5°	50.1	50.1	74.9	115.3	103.6	84.6	72.4	61.8	38.5	29.7	30.2
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°	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3
2.5°	1143.2	1144.2	1143.7	1143.2	1143.2	1142.7	1143.2	1143.2
5°	1151.9	1154.4	1154.4	1155.4	1155.4	1155.8	1156.3	1155.8
7.5°	1165.1	1169.4	1172.4	1175.8	1176.3	1176.8	1177.7	1176.8
10°	1178.2	1187.0	1193.3	1199.6	1202.6	1203.5	1204.5	1204.5
12.5°	1194.8	1206.9	1218.1	1229.3	1234.6	1237.6	1237.6	1239.5
15°	1222.0	1234.2	1247.3	1262.3	1271.6	1276.4	1277.9	1277.9
17.5°	1260.4	1271.1	1282.3	1296.9	1308.6	1314.9	1316.3	1315.8
20°	1305.2	1315.3	1321.7	1331.0	1341.1	1348.5	1350.4	1350.4
22.5°	1356.2	1362.1	1363.0	1365.9	1374.2	1384.0	1388.2	1389.3
25°	1412.6	1414.0	1410.1	1410.1	1415.6	1424.8	1429.2	1429.7
27.5°	1485.5	1478.3	1468.5	1465.2	1468.5	1479.2	1484.6	1486.6
30°	1576.5	1559.0	1536.6	1524.4	1522.5	1536.6	1546.3	1547.8
32.5°	1680.5	1655.2	1625.6	1600.8	1594.5	1603.3	1614.9	1614.4
35°	1804.1	1773.9	1737.9	1706.3	1691.8	1700.5	1717.0	1719.0
37.5°	1946.6	1907.2	1865.9	1826.0	1803.1	1805.5	1823.0	1828.8
40°	2105.5	2054.5	2002.4	1948.9	1916.4	1910.1	1931.4	1934.9
42.5°	2275.8	2210.1	2144.4	2078.3	2036.5	2026.8	2051.5	2050.1
45°	2457.1	2373.5	2296.6	2223.7	2174.1	2159.6	2179.9	2179.9
47.5°	2652.1	2549.0	2457.6	2375.0	2321.0	2300.0	2319.5	2321.0
50°	2858.7	2749.4	2641.9	2550.0	2485.4	2458.6	2483.8	2487.7
52.5°	3064.5	2958.0	2849.5	2744.5	2666.2	2633.6	2662.8	2675.4
55°	3273.0	3168.5	3065.0	2962.4	2869.5	2831.0	2862.2	2878.2
57.5°	3493.4	3396.6	3297.9	3194.3	3104.9	3045.0	3078.1	3099.4
60°	3751.6	3668.9	3566.3	3452.0	3361.6	3300.8	3319.8	3338.7
62.5°	3955.8	3987.9	3900.8	3768.6	3652.3	3574.6	3593.0	3613.0
65°	3857.0	4186.3	4263.6	4129.9	3968.9	3847.8	3840.1	3850.3
67.5°	3223.9	3863.4	4329.7	4457.1	4322.5	4154.2	4123.1	4138.1
70°	2156.6	2953.2	3775.9	4388.6	4551.5	4486.4	4455.7	4464.9
72.5°	1035.7	1719.9	2561.7	3376.1	3872.2	4099.7	4172.7	4208.2
75°	378.8	682.7	1234.6	1860.4	2246.1	2600.0	2831.0	2925.4
77.5°	228.5	275.7	394.3	593.7	672.5	752.8	721.6	737.1
80°	169.2	191.1	216.4	243.2	251.9	251.9	242.1	234.4
82.5°	118.7	132.8	145.0	159.5	163.4	156.1	128.4	102.1
85°	76.3	82.7	88.0	97.3	94.8	90.4	60.8	54.0
87.5°	35.0	39.9	41.8	46.2	44.3	42.4	30.2	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)