

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: P192630

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
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-5WQ-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12406.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

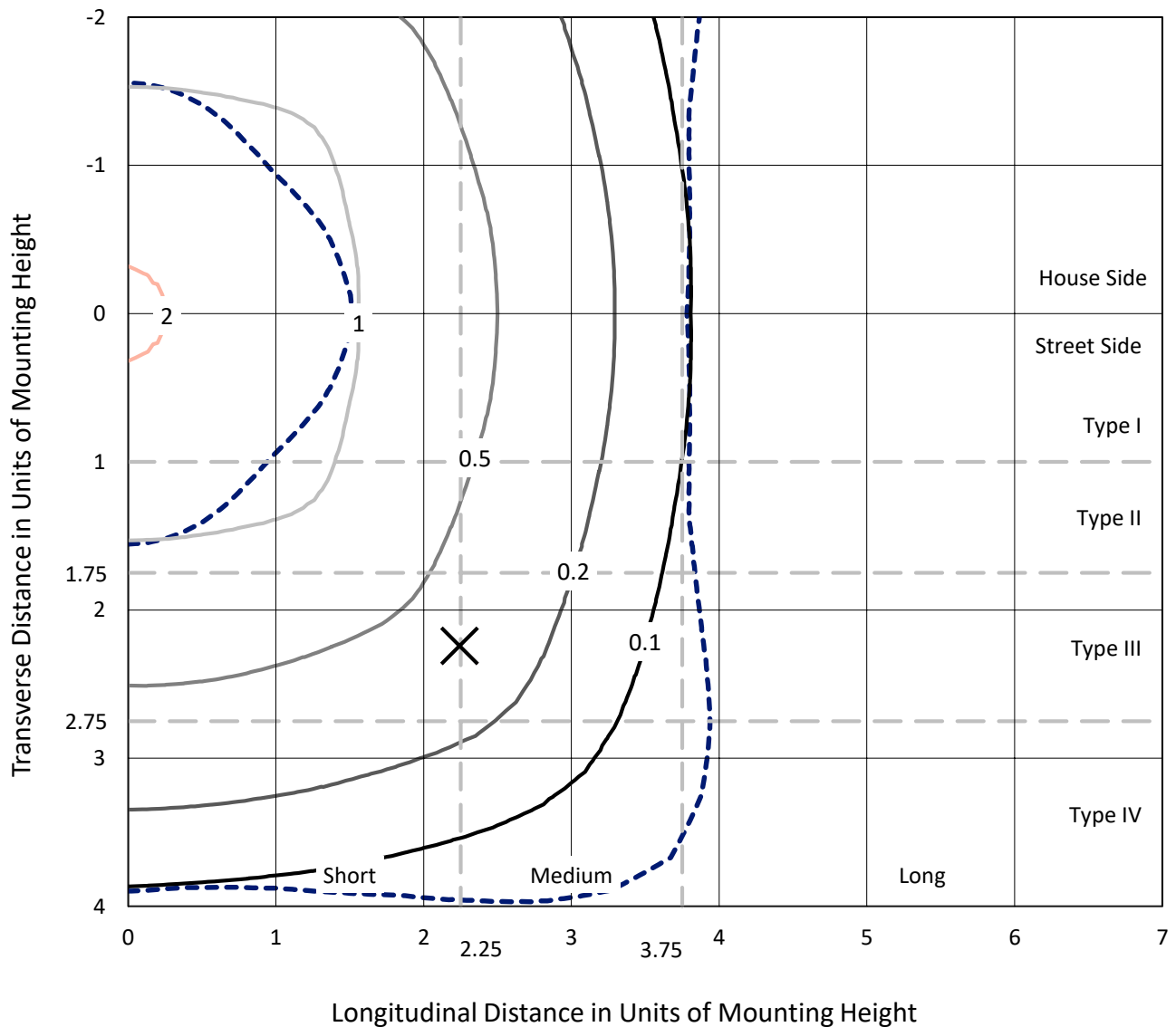
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

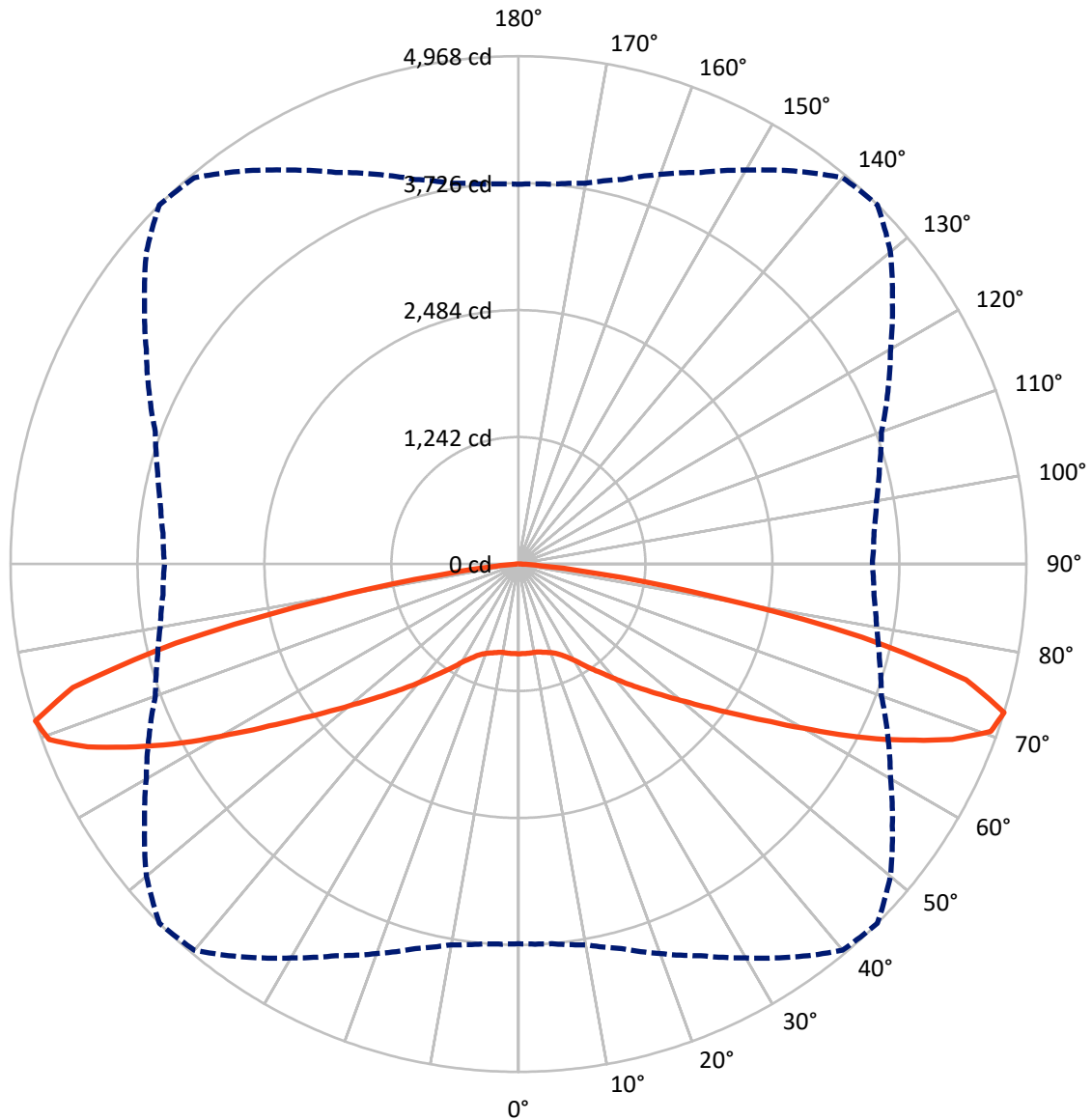
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6203.2	0.0	6203.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6203.2	0.0	6203.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12406.4	0.0	12406.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	0.7
10°-20°	254.8	2.1
20°-30°	465.6	3.8
30°-40°	802.8	6.5
40°-50°	1372.4	11.1
50°-60°	2224.4	17.9
60°-70°	3690.2	29.7
70°-80°	3250.2	26.2
80°-90°	262.1	2.1
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°	12406.4	100.0
0°-180°	12406.4	100.0



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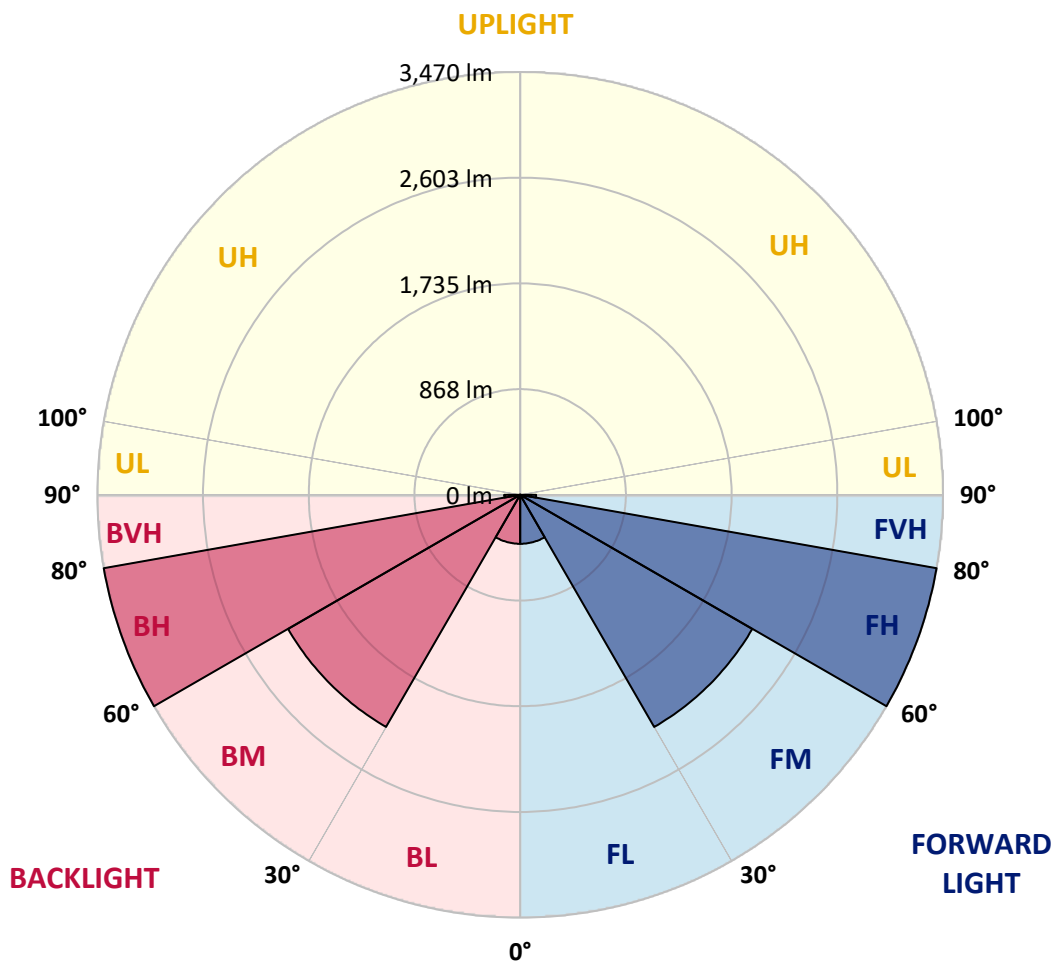
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.1	3.2			
FM	(30°-60°)	2199.8	17.7			
FH	(60°-80°)	3470.2	28.0			G2/5000
FVH	(80°-90°)	131.0	1.1			G2/225
BL	(0°-30°)	402.1	3.2	B1/500		
BM	(30°-60°)	2199.8	17.7	B2/2500		
BH	(60°-80°)	3470.2	28.0	B4/5000		G2/5000
BVH	(80°-90°)	131.0	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	878.6	879.1	879.7	879.1	879.1	878.6	878.0	878.6	878.0	876.8	877.5
5°	881.4	882.6	882.6	881.4	881.9	881.4	880.3	880.8	879.7	878.0	878.0
7.5°	884.8	885.4	885.4	884.2	884.8	883.7	882.6	881.9	880.8	878.6	876.8
10°	889.9	890.5	889.9	888.9	888.9	887.0	884.2	883.2	880.8	877.5	875.7
12.5°	895.6	896.3	895.6	894.5	894.0	891.1	888.9	887.0	885.4	882.6	879.7
15°	903.6	904.7	903.6	901.3	899.6	897.3	896.3	896.8	897.3	895.1	892.2
17.5°	918.5	919.0	917.2	912.1	909.9	907.6	907.6	908.7	910.4	909.2	906.5
20°	945.7	944.0	940.0	933.7	930.9	926.9	926.4	926.9	926.9	926.4	924.2
22.5°	979.8	978.8	973.6	965.7	961.6	959.4	955.9	953.1	952.5	950.9	948.6
25°	1020.8	1020.3	1014.0	1007.2	1004.3	1001.5	998.6	994.7	991.2	987.2	985.0
27.5°	1073.2	1070.8	1061.8	1058.4	1054.4	1052.7	1048.7	1044.2	1041.4	1036.3	1033.4
30°	1130.7	1130.7	1123.3	1122.1	1122.1	1118.2	1113.6	1105.6	1100.5	1095.4	1093.6
32.5°	1188.0	1188.6	1181.3	1183.6	1185.3	1188.0	1189.3	1186.4	1183.0	1182.4	1179.0
35°	1271.2	1268.9	1261.5	1263.2	1262.6	1262.1	1262.1	1268.4	1269.5	1270.5	1263.8
37.5°	1374.2	1374.2	1366.9	1366.9	1363.3	1360.0	1355.4	1359.4	1365.6	1367.4	1362.8
40°	1491.9	1496.0	1486.8	1486.3	1487.4	1476.6	1471.5	1477.7	1481.8	1488.5	1483.4
42.5°	1630.8	1628.0	1618.9	1617.7	1611.5	1608.1	1603.5	1608.7	1614.9	1619.4	1621.2
45°	1764.0	1761.7	1751.4	1751.4	1745.2	1742.3	1744.7	1753.2	1756.1	1762.3	1768.5
47.5°	1895.4	1892.6	1885.7	1888.5	1889.1	1894.2	1901.6	1909.7	1917.6	1926.1	1929.0
50°	2029.7	2030.2	2022.8	2029.7	2038.2	2052.4	2072.3	2085.4	2101.9	2112.7	2116.2
52.5°	2152.1	2154.3	2162.2	2178.2	2195.2	2223.2	2257.3	2289.2	2316.6	2334.7	2333.6
55°	2298.9	2302.2	2321.6	2348.8	2376.8	2418.9	2469.6	2525.8	2571.4	2597.5	2581.0
57.5°	2486.6	2494.1	2515.5	2552.7	2594.2	2648.8	2718.2	2802.9	2873.5	2908.8	2882.0
60°	2744.4	2749.0	2775.0	2816.0	2866.2	2933.8	3026.6	3140.4	3240.0	3286.6	3255.9
62.5°	3084.1	3092.6	3113.7	3155.2	3206.4	3283.2	3396.5	3538.7	3662.8	3727.6	3658.2
65°	3489.7	3517.0	3534.7	3576.8	3624.6	3706.1	3824.4	3976.8	4110.0	4152.7	4072.4
67.5°	3891.5	3915.5	3946.1	3994.5	4042.9	4134.5	4244.2	4392.2	4538.5	4577.2	4452.6
70°	4067.4	4081.1	4128.8	4194.8	4287.6	4395.7	4522.6	4688.8	4869.6	4901.5	4743.4
72.5°	3715.2	3728.8	3782.2	3894.3	4055.9	4227.8	4449.1	4693.2	4932.3	4968.1	4750.1
75°	2809.8	2787.6	2866.8	3015.2	3233.2	3472.7	3782.2	4132.1	4477.7	4522.6	4262.5
77.5°	1452.2	1449.4	1509.1	1693.4	1953.4	2226.0	2566.8	2962.3	3300.2	3436.9	3225.3
80°	409.1	413.6	442.2	533.7	685.7	882.6	1148.9	1519.2	1795.7	1936.9	1818.6
82.5°	160.5	172.9	183.8	200.8	220.8	249.7	333.5	496.1	665.7	795.5	651.5
85°	57.5	61.4	87.1	103.0	104.7	110.4	125.7	146.9	177.0	211.1	173.5
87.5°	21.7	23.9	27.9	46.1	45.6	41.5	50.7	52.9	39.9	36.4	44.9
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°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	876.3	876.8	876.8	877.5	878.0	878.0	879.1	879.1
5°	876.8	876.8	875.7	876.3	875.7	875.7	876.3	876.3
7.5°	875.7	875.1	874.0	873.4	872.3	872.3	872.3	872.3
10°	874.0	873.4	872.3	871.8	871.2	871.2	871.2	871.2
12.5°	878.6	876.8	875.7	875.1	875.1	875.1	875.1	875.1
15°	890.5	886.5	883.7	883.7	884.2	885.4	885.4	886.5
17.5°	905.3	900.8	897.9	895.6	896.8	898.4	899.6	900.8
20°	922.9	920.6	916.6	914.4	914.4	916.6	917.8	918.5
22.5°	947.4	945.7	944.0	941.2	941.2	942.3	944.5	944.5
25°	983.9	982.7	981.5	979.3	978.8	978.8	979.8	981.0
27.5°	1029.3	1029.9	1028.7	1028.2	1026.5	1026.0	1027.7	1027.0
30°	1090.2	1093.1	1096.0	1093.6	1090.9	1089.1	1087.3	1085.2
32.5°	1172.8	1169.3	1167.1	1163.1	1157.9	1153.4	1150.0	1146.0
35°	1250.7	1245.0	1242.8	1246.1	1245.5	1242.8	1238.8	1235.4
37.5°	1346.3	1345.2	1346.3	1352.5	1351.4	1354.3	1346.3	1345.7
40°	1467.0	1468.1	1476.0	1483.4	1487.4	1491.4	1486.8	1482.3
42.5°	1606.8	1606.3	1609.2	1619.4	1626.3	1630.8	1621.2	1620.0
45°	1754.8	1750.9	1753.2	1761.7	1768.5	1773.6	1762.8	1762.8
47.5°	1917.6	1910.7	1903.4	1913.0	1917.1	1920.4	1911.9	1909.1
50°	2099.1	2084.8	2069.0	2072.9	2072.9	2071.8	2060.9	2060.4
52.5°	2307.3	2281.3	2252.2	2241.4	2235.1	2228.3	2209.5	2200.4
55°	2547.0	2507.7	2462.1	2434.3	2419.4	2400.7	2369.4	2360.9
57.5°	2826.9	2765.5	2686.9	2652.9	2619.7	2589.0	2554.4	2544.6
60°	3158.5	3068.1	2963.9	2900.9	2865.0	2835.4	2799.5	2797.9
62.5°	3528.5	3385.6	3267.8	3211.0	3184.8	3158.5	3124.5	3129.0
65°	3904.6	3755.6	3645.1	3599.0	3574.5	3553.0	3518.8	3523.9
67.5°	4275.7	4138.5	4017.3	3970.1	3942.7	3915.5	3884.7	3889.8
70°	4541.9	4371.8	4235.2	4130.5	4065.1	3991.1	3943.2	3931.3
72.5°	4465.7	4203.3	3986.6	3778.8	3657.1	3558.0	3491.0	3461.9
75°	3864.8	3506.3	3227.5	2972.5	2829.2	2712.5	2627.6	2574.8
77.5°	2870.1	2467.3	2137.7	1844.2	1612.0	1456.1	1346.3	1275.2
80°	1571.0	1195.0	873.4	613.9	451.2	375.0	331.2	310.1
82.5°	489.4	315.8	232.7	200.8	186.7	178.6	165.6	144.5
85°	155.9	136.6	126.8	121.2	115.5	100.7	69.4	63.2
87.5°	60.3	62.1	61.4	58.0	59.2	42.7	34.1	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)