

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: P191700

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191700
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-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14073 lumens
Efficiency: N/A
Efficacy: 109.1 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): 129
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

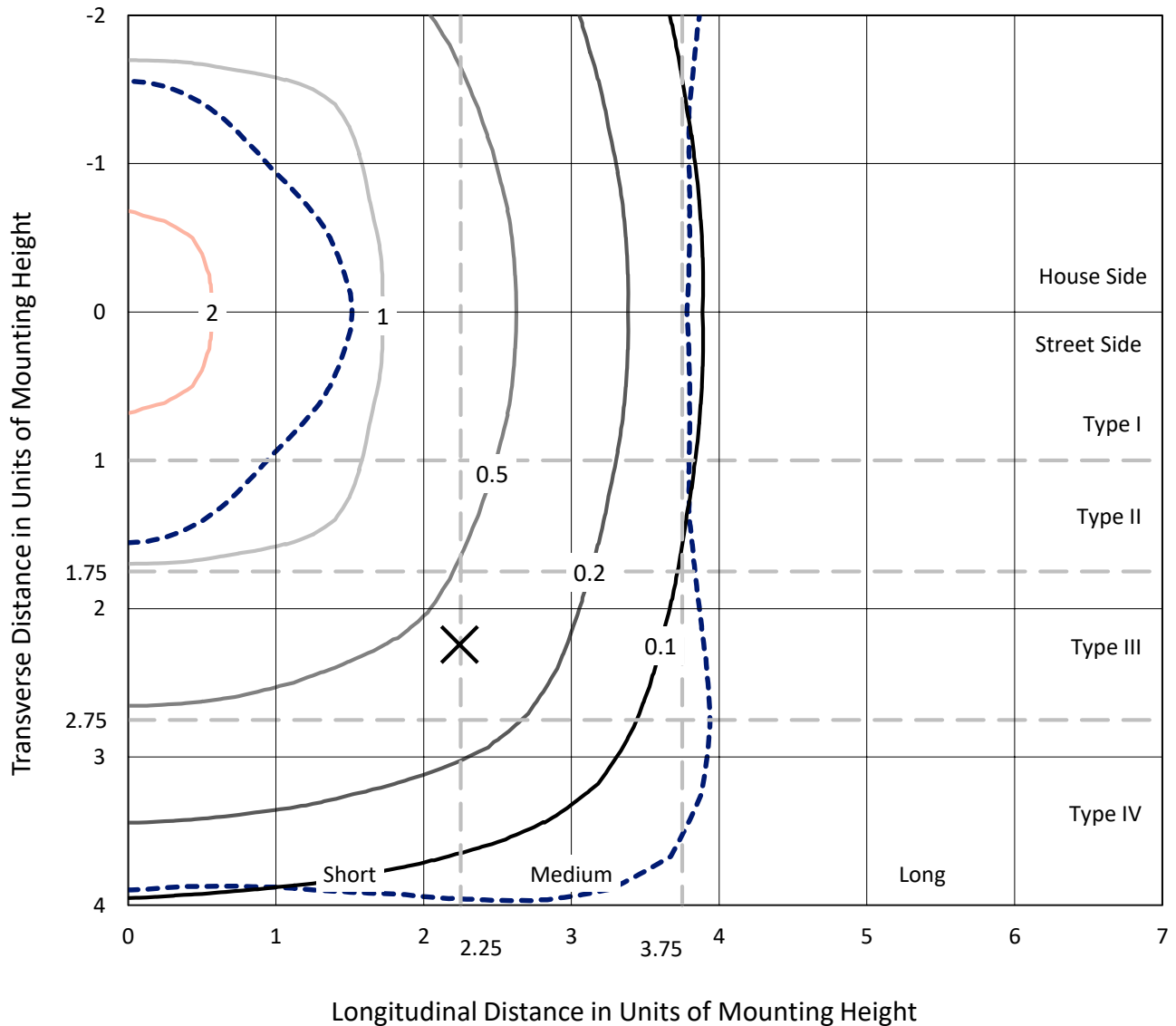


REPORT NUMBER: P191700

CATALOG NUMBER: GAN-AF-02-LED-U-5WQ-7050-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

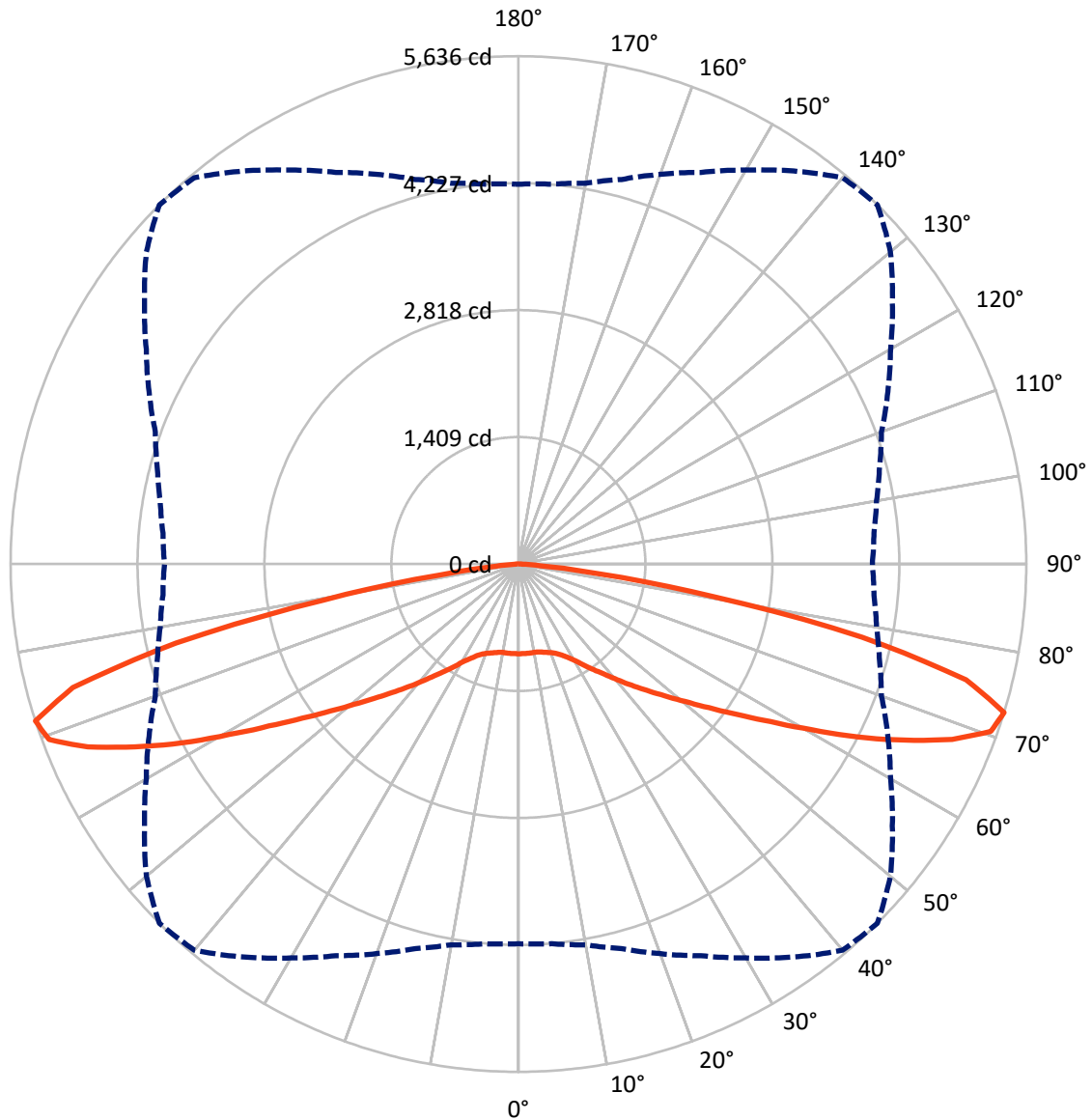


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P191700

CATALOG NUMBER: GAN-AF-02-LED-U-5WQ-7050-1200-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191700

CATALOG NUMBER: GAN-AF-02-LED-U-5WQ-7050-1200-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7036.5	0.0	7036.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7036.5	0.0	7036.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14073.0	0.0	14073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	0.7
10°-20°	289.0	2.1
20°-30°	528.2	3.8
30°-40°	910.6	6.5
40°-50°	1556.7	11.1
50°-60°	2523.2	17.9
60°-70°	4186.0	29.7
70°-80°	3686.9	26.2
80°-90°	297.3	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°	14073.0	100.0
0°-180°	14073.0	100.0



REPORT NUMBER: P191700

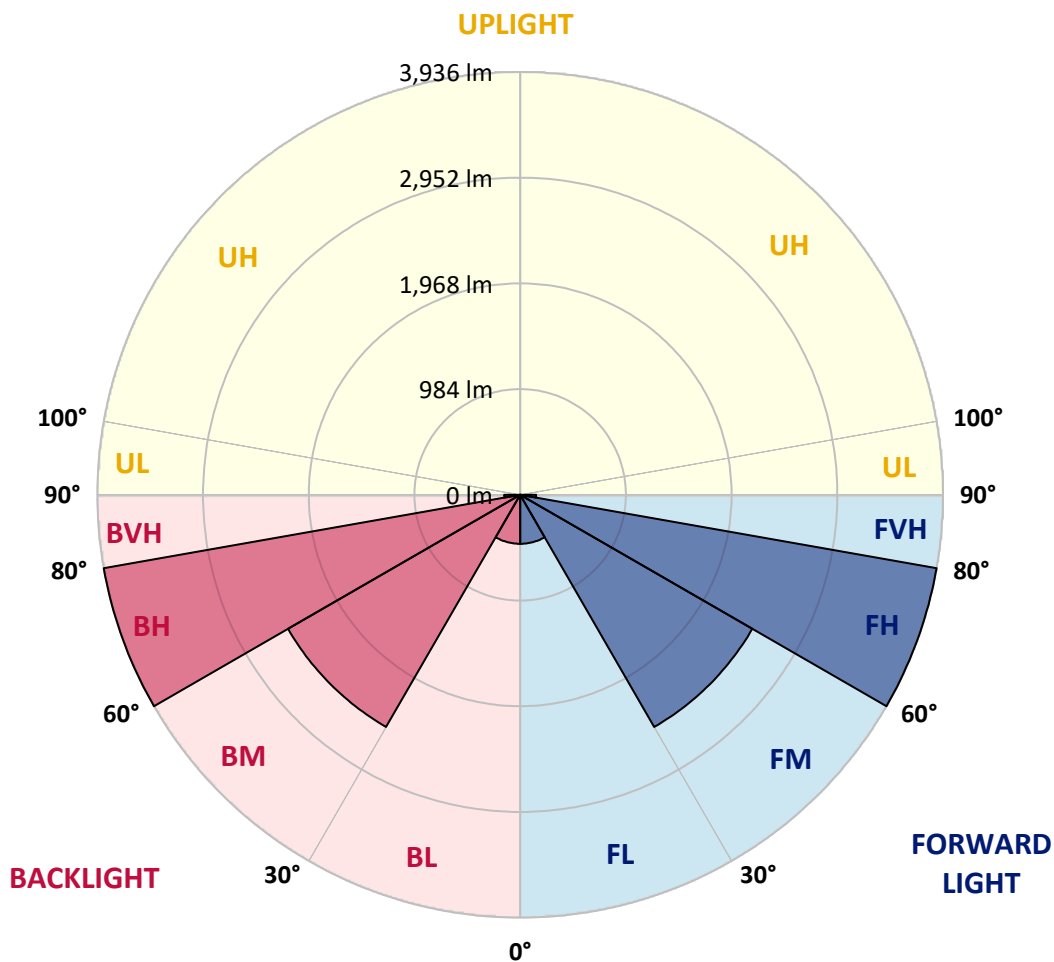
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	456.2	3.2			
FM	(30°-60°)	2495.3	17.7			
FH	(60°-80°)	3936.4	28.0			G2/5000
FVH	(80°-90°)	148.6	1.1			G2/225
BL	(0°-30°)	456.2	3.2	B1/500		
BM	(30°-60°)	2495.3	17.7	B2/2500		
BH	(60°-80°)	3936.4	28.0	B4/5000		G2/5000
BVH	(80°-90°)	148.6	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





REPORT NUMBER: P191700

CATALOG NUMBER: GAN-AF-02-LED-U-5WQ-7050-1200-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	996.6	997.2	997.9	997.2	997.2	996.6	995.9	996.6	995.9	994.7	995.3
5°	999.8	1001.1	1001.1	999.8	1000.5	999.8	998.5	999.2	997.9	995.9	995.9
7.5°	1003.7	1004.3	1004.3	1003.0	1003.7	1002.4	1001.1	1000.5	999.2	996.6	994.7
10°	1009.5	1010.1	1009.5	1008.2	1008.2	1006.3	1003.0	1001.8	999.2	995.3	993.4
12.5°	1016.0	1016.6	1016.0	1014.7	1014.0	1010.8	1008.2	1006.3	1004.3	1001.1	997.9
15°	1025.0	1026.3	1025.0	1022.4	1020.5	1017.9	1016.6	1017.2	1017.9	1015.3	1012.1
17.5°	1041.8	1042.4	1040.5	1034.7	1032.1	1029.5	1029.5	1030.8	1032.7	1031.4	1028.2
20°	1072.8	1070.8	1066.3	1059.2	1056.0	1051.5	1050.8	1051.5	1051.5	1050.8	1048.2
22.5°	1111.5	1110.2	1104.4	1095.3	1090.8	1088.2	1084.4	1081.1	1080.5	1078.6	1076.0
25°	1158.0	1157.3	1150.2	1142.5	1139.2	1136.0	1132.8	1128.3	1124.4	1119.9	1117.3
27.5°	1217.3	1214.8	1204.4	1200.6	1196.0	1194.1	1189.6	1184.4	1181.2	1175.4	1172.2
30°	1282.5	1282.5	1274.1	1272.8	1272.8	1268.3	1263.2	1254.1	1248.3	1242.5	1240.6
32.5°	1347.7	1348.4	1340.0	1342.6	1344.5	1347.7	1349.0	1345.8	1341.9	1341.3	1337.4
35°	1442.0	1439.4	1431.0	1432.9	1432.3	1431.6	1431.6	1438.7	1440.0	1441.3	1433.6
37.5°	1558.8	1558.8	1550.4	1550.4	1546.5	1542.6	1537.5	1542.0	1549.1	1551.0	1545.9
40°	1692.4	1696.9	1686.6	1685.9	1687.2	1675.0	1669.2	1676.3	1680.8	1688.5	1682.7
42.5°	1849.9	1846.7	1836.3	1835.0	1827.9	1824.1	1818.9	1824.7	1831.8	1837.0	1838.9
45°	2000.9	1998.3	1986.7	1986.7	1979.6	1976.4	1979.0	1988.7	1991.9	1999.0	2006.1
47.5°	2150.0	2146.8	2139.0	2142.3	2142.9	2148.7	2157.1	2166.2	2175.2	2184.9	2188.1
50°	2302.3	2303.0	2294.6	2302.3	2312.0	2328.2	2350.8	2365.6	2384.3	2396.6	2400.5
52.5°	2441.1	2443.7	2452.7	2470.8	2490.2	2521.8	2560.5	2596.7	2627.7	2648.3	2647.0
55°	2607.6	2611.5	2633.5	2664.5	2696.1	2743.8	2801.3	2865.2	2916.8	2946.5	2927.8
57.5°	2820.7	2829.0	2853.6	2895.5	2942.6	3004.6	3083.4	3179.5	3259.6	3299.6	3269.2
60°	3113.0	3118.2	3147.9	3194.4	3251.2	3328.0	3433.2	3562.3	3675.2	3728.2	3693.3
62.5°	3498.4	3508.1	3531.9	3579.1	3637.2	3724.3	3852.7	4014.1	4154.8	4228.4	4149.6
65°	3958.6	3989.6	4009.6	4057.3	4111.6	4203.9	4338.1	4511.1	4662.1	4710.6	4619.5
67.5°	4414.3	4441.4	4476.3	4531.1	4586.0	4689.9	4814.5	4982.3	5148.2	5192.1	5050.7
70°	4613.7	4629.2	4683.4	4758.3	4863.5	4986.2	5130.1	5318.6	5523.8	5560.0	5380.5
72.5°	4214.2	4229.7	4290.4	4417.5	4600.8	4795.8	5046.8	5323.7	5594.8	5635.5	5388.3
75°	3187.3	3162.1	3251.8	3420.3	3667.5	3939.2	4290.4	4687.3	5079.1	5130.1	4835.1
77.5°	1647.2	1644.0	1711.8	1920.9	2215.9	2525.0	2911.7	3360.3	3743.7	3898.6	3658.5
80°	464.1	469.2	501.5	605.4	777.8	1001.1	1303.2	1723.4	2037.1	2197.1	2062.9
82.5°	182.0	196.2	208.5	227.8	250.4	283.4	378.2	562.8	755.2	902.4	739.0
85°	65.2	69.7	98.8	116.8	118.8	125.2	142.6	166.5	200.7	239.5	196.9
87.5°	24.5	27.1	31.6	52.3	51.6	47.1	57.4	60.0	45.2	41.3	51.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191700

CATALOG NUMBER: GAN-AF-02-LED-U-5WQ-7050-1200-ADJ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	994.0	994.7	994.7	995.3	995.9	995.9	997.2	997.2
5°	994.7	994.7	993.4	994.0	993.4	993.4	994.0	994.0
7.5°	993.4	992.7	991.4	990.8	989.5	989.5	989.5	989.5
10°	991.4	990.8	989.5	988.8	988.2	988.2	988.2	988.2
12.5°	996.6	994.7	993.4	992.7	992.7	992.7	992.7	992.7
15°	1010.1	1005.6	1002.4	1002.4	1003.0	1004.3	1004.3	1005.6
17.5°	1026.9	1021.8	1018.5	1016.0	1017.2	1019.2	1020.5	1021.8
20°	1046.9	1044.4	1039.8	1037.3	1037.3	1039.8	1041.1	1041.8
22.5°	1074.7	1072.8	1070.8	1067.6	1067.6	1068.9	1071.5	1071.5
25°	1116.0	1114.7	1113.4	1110.8	1110.2	1110.2	1111.5	1112.8
27.5°	1167.6	1168.3	1167.0	1166.3	1164.4	1163.8	1165.7	1165.1
30°	1236.7	1239.9	1243.2	1240.6	1237.3	1235.4	1233.5	1230.9
32.5°	1330.3	1326.4	1323.8	1319.3	1313.5	1308.3	1304.5	1300.0
35°	1418.7	1412.3	1409.7	1413.6	1412.9	1409.7	1405.2	1401.3
37.5°	1527.2	1525.9	1527.2	1534.3	1533.0	1536.2	1527.2	1526.5
40°	1664.0	1665.3	1674.3	1682.7	1687.2	1691.7	1686.6	1681.4
42.5°	1822.8	1822.1	1825.4	1837.0	1844.7	1849.9	1838.9	1837.6
45°	1990.6	1986.1	1988.7	1998.3	2006.1	2011.9	1999.6	1999.6
47.5°	2175.2	2167.4	2159.1	2170.0	2174.5	2178.4	2168.7	2165.5
50°	2381.1	2365.0	2346.9	2351.4	2351.4	2350.1	2337.8	2337.2
52.5°	2617.3	2587.6	2554.7	2542.5	2535.4	2527.6	2506.3	2496.0
55°	2889.1	2844.5	2792.9	2761.3	2744.5	2723.2	2687.7	2678.0
57.5°	3206.6	3136.9	3047.9	3009.1	2971.7	2936.8	2897.5	2886.5
60°	3582.9	3480.3	3362.2	3290.5	3249.9	3216.3	3175.7	3173.7
62.5°	4002.5	3840.5	3706.9	3642.3	3612.6	3582.9	3544.2	3549.4
65°	4429.1	4260.0	4134.8	4082.5	4054.8	4030.2	3991.5	3997.3
67.5°	4850.0	4694.4	4556.9	4503.4	4472.4	4441.4	4406.5	4412.4
70°	5152.0	4959.1	4804.1	4685.4	4611.2	4527.2	4473.0	4459.5
72.5°	5065.6	4768.0	4522.1	4286.5	4148.4	4036.0	3959.9	3927.0
75°	4384.0	3977.3	3661.0	3371.9	3209.2	3076.9	2980.7	2920.7
77.5°	3255.7	2798.7	2425.0	2091.9	1828.6	1651.7	1527.2	1446.5
80°	1782.1	1355.5	990.8	696.4	511.8	425.4	375.7	351.8
82.5°	555.1	358.2	264.0	227.8	211.7	202.7	187.8	163.9
85°	176.9	154.9	143.9	137.5	131.0	114.2	78.7	71.6
87.5°	68.4	70.4	69.7	65.8	67.1	48.4	38.7	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)