

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: P191001

Luminaire Tested: **GAN-AF-03-LED-U-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191001
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-03-LED-U-RW-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 15353.5 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

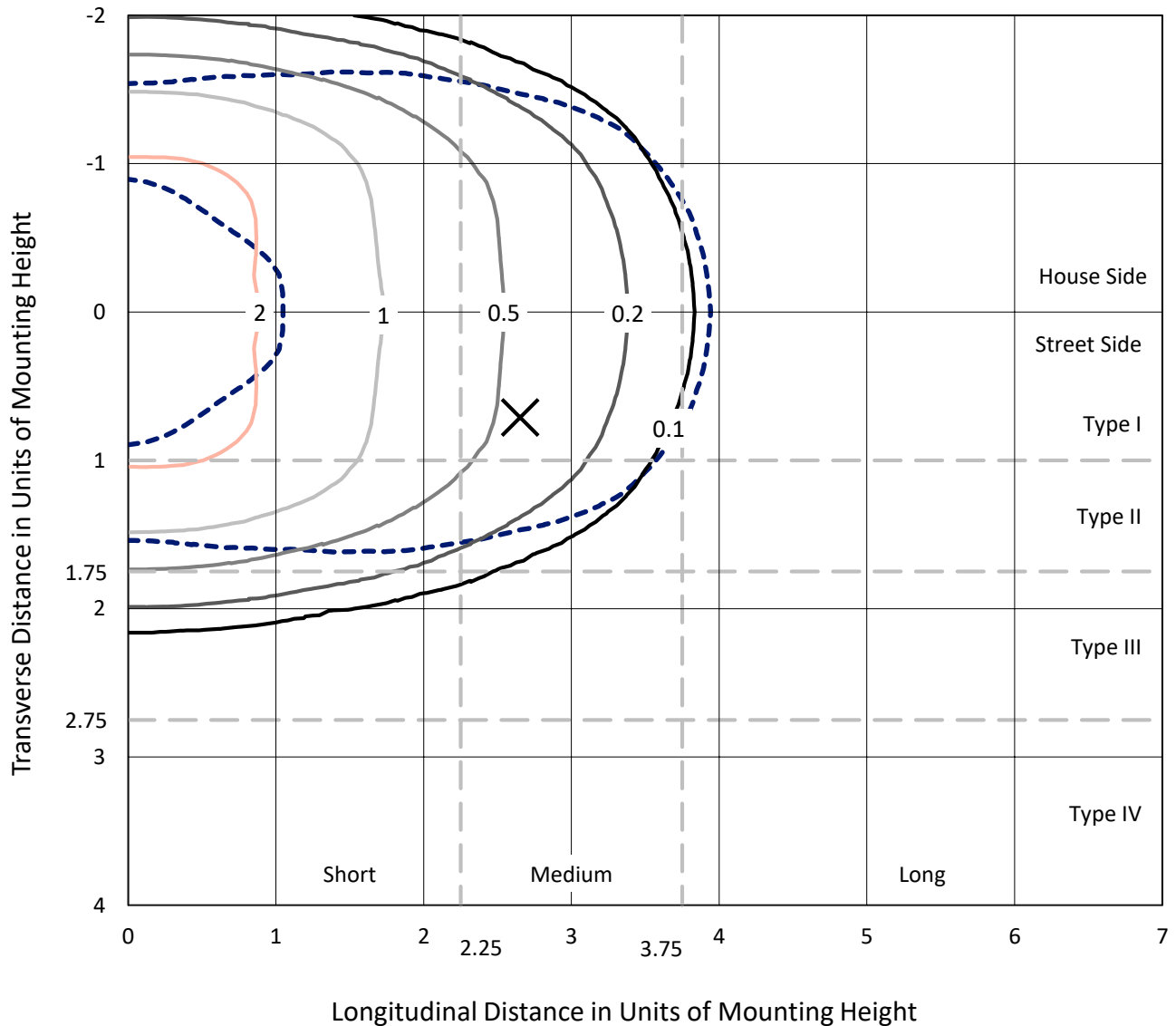
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191001
 CATALOG NUMBER: GAN-AF-03-LED-U-RW-800

Iso-Footcandle Lines of Horizontal Illumination

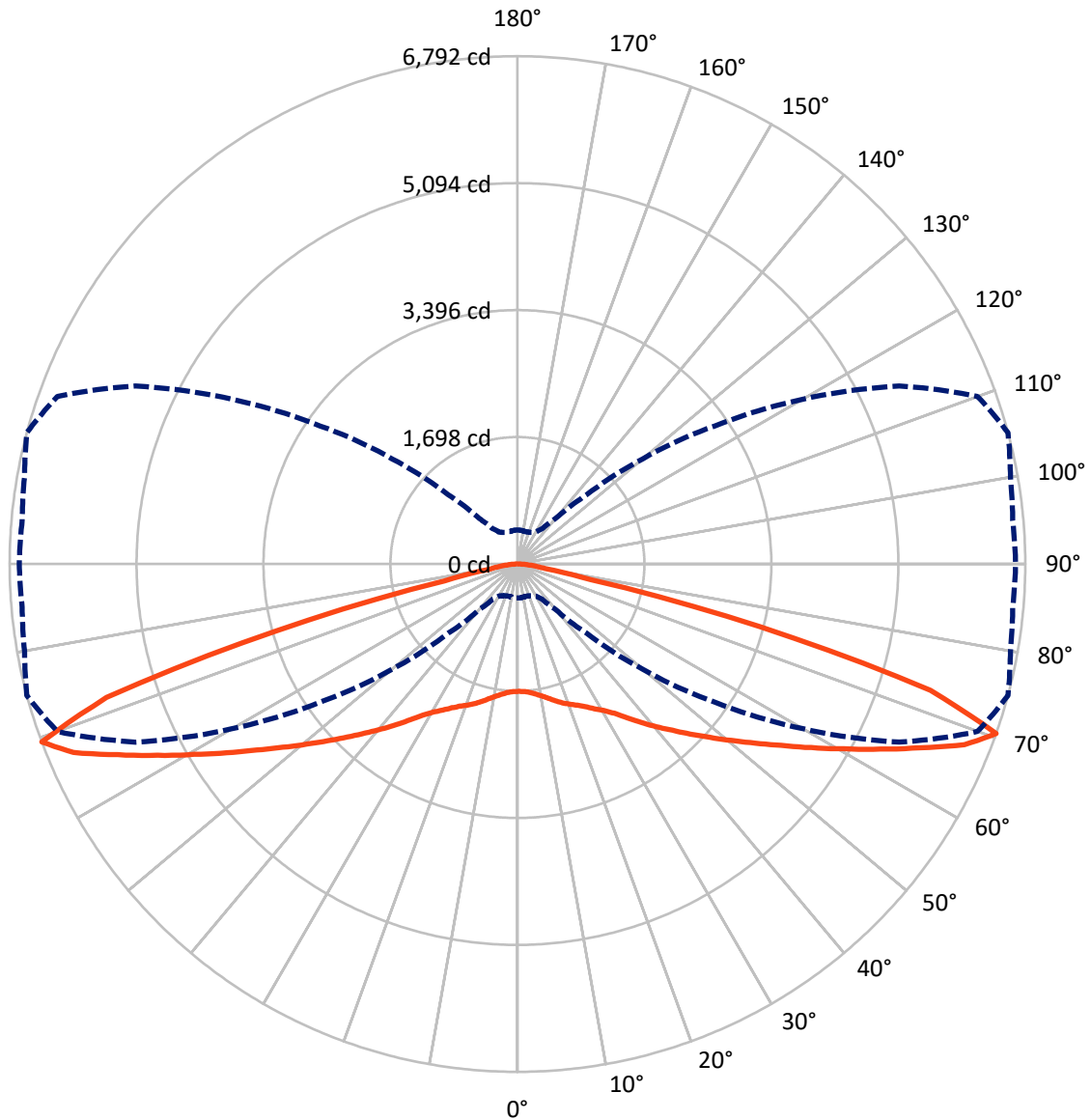
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P191001
CATALOG NUMBER: GAN-AF-03-LED-U-RW-800

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-AF-03-LED-U-RW-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7676.7	0.0	7676.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7676.7	0.0	7676.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15353.5	0.0	15353.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	1.1
10°-20°	507.5	3.3
20°-30°	955.2	6.2
30°-40°	1691.5	11.0
40°-50°	2828.7	18.4
50°-60°	3941.8	25.7
60°-70°	3655.4	23.8
70°-80°	1456.8	9.5
80°-90°	153.1	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°	15353.5	100.0
0°-180°	15353.5	100.0



REPORT NUMBER: P191001

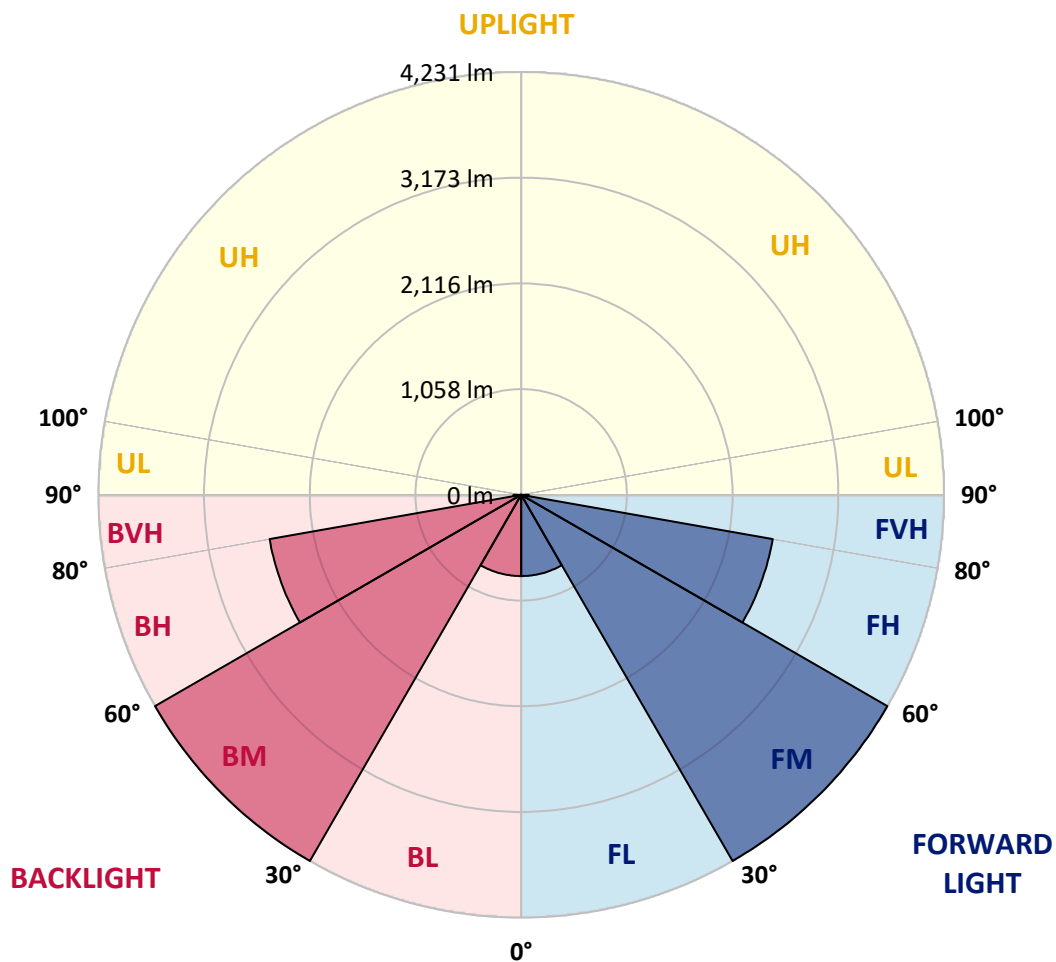
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	813.0	5.3			
FM	(30°-60°)	4231.0	27.6			
FH	(60°-80°)	2556.1	16.6			G2/5000
FVH	(80°-90°)	76.6	0.5			G1/100
BL	(0°-30°)	813.0	5.3	B2/1000		
BM	(30°-60°)	4231.0	27.6	B3/5000		
BH	(60°-80°)	2556.1	16.6	B4/5000		G2/5000
BVH	(80°-90°)	76.6	0.5			G1/100
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 Medium





REPORT NUMBER: P191001

CATALOG NUMBER: GAN-AF-03-LED-U-RW-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1700.1	1698.7	1700.1	1699.4	1700.9	1700.9	1702.3	1705.3	1705.3	1707.4	1706.7
5°	1683.5	1682.8	1684.9	1687.1	1689.3	1693.6	1698.0	1704.5	1709.6	1713.2	1716.8
7.5°	1650.8	1650.8	1653.7	1658.8	1663.8	1673.3	1683.5	1696.6	1709.6	1720.5	1729.9
10°	1623.9	1625.4	1629.0	1637.7	1646.4	1661.0	1674.8	1693.6	1711.8	1729.9	1744.4
12.5°	1608.0	1610.2	1616.7	1629.8	1644.3	1663.8	1684.9	1708.8	1729.2	1751.0	1765.5
15°	1613.1	1614.5	1623.9	1639.9	1658.8	1683.5	1711.8	1740.0	1764.0	1787.2	1806.8
17.5°	1641.4	1643.6	1654.4	1672.6	1692.2	1721.2	1751.7	1783.6	1813.4	1839.5	1863.4
20°	1692.2	1694.3	1708.1	1727.8	1751.0	1780.7	1811.1	1844.6	1877.9	1905.6	1932.4
22.5°	1764.0	1767.7	1780.7	1800.3	1826.4	1858.3	1894.6	1930.2	1962.1	1987.5	2011.4
25°	1858.3	1866.4	1878.6	1900.4	1928.0	1957.0	1996.2	2032.5	2063.0	2086.9	2104.3
27.5°	1991.9	2002.7	2012.1	2033.2	2060.0	2087.6	2126.8	2158.7	2187.8	2211.0	2224.1
30°	2169.0	2179.8	2189.2	2209.6	2234.2	2260.3	2297.3	2325.7	2343.8	2361.9	2361.2
32.5°	2383.7	2395.3	2398.9	2420.7	2446.1	2474.4	2507.8	2523.7	2538.2	2540.4	2527.4
35°	2623.9	2629.7	2644.2	2673.3	2702.2	2725.4	2757.4	2765.3	2765.3	2754.5	2725.4
37.5°	2887.3	2891.0	2911.2	2943.8	2973.6	2997.6	3019.3	3035.3	3027.3	3004.1	2955.5
40°	3176.1	3182.6	3211.7	3240.7	3274.1	3296.6	3319.8	3322.6	3314.7	3280.6	3214.5
42.5°	3451.8	3457.7	3486.6	3532.4	3575.9	3607.1	3628.9	3633.2	3607.8	3576.6	3494.6
45°	3689.1	3704.3	3742.1	3795.8	3858.9	3903.2	3932.9	3945.2	3922.8	3882.1	3787.1
47.5°	3877.1	3892.3	3946.0	4009.9	4088.2	4160.0	4209.3	4235.5	4229.7	4199.2	4095.5
50°	4014.9	4029.4	4087.5	4165.9	4257.3	4346.5	4430.7	4493.1	4514.9	4501.1	4406.1
52.5°	4030.8	4054.9	4123.0	4228.3	4347.2	4469.2	4588.9	4694.8	4766.6	4777.6	4707.2
55°	3808.1	3832.1	3926.4	4082.4	4259.5	4458.3	4649.8	4828.3	4969.8	5042.4	5005.4
57.5°	3282.8	3325.6	3424.9	3607.8	3868.4	4165.9	4471.3	4788.4	5076.5	5268.8	5305.8
60°	2515.7	2566.6	2666.7	2861.2	3151.4	3506.3	3914.0	4382.8	4891.4	5323.9	5582.2
62.5°	1613.8	1661.7	1766.9	1935.9	2172.5	2557.2	2994.7	3551.3	4234.8	4917.6	5532.9
65°	829.4	855.5	910.6	1013.0	1197.3	1484.6	1877.2	2432.3	3213.8	4056.3	4945.9
67.5°	525.4	530.4	542.8	557.3	604.5	703.9	886.7	1232.9	1875.8	2754.5	3795.8
70°	454.3	454.3	448.5	446.3	452.0	465.9	494.2	574.7	791.7	1307.6	2189.2
72.5°	415.8	411.4	401.3	393.3	391.8	391.8	397.6	410.0	444.8	532.7	856.9
75°	383.1	370.8	357.0	347.6	343.9	340.3	339.6	341.8	349.0	362.8	409.3
77.5°	343.2	327.2	311.3	301.9	297.5	292.5	288.1	282.9	279.4	283.8	304.0
80°	295.3	277.2	264.8	259.0	254.7	247.5	238.0	229.3	221.4	219.8	232.2
82.5°	238.0	217.0	217.7	219.8	211.9	201.7	191.6	182.1	168.4	161.1	168.4
85°	192.3	181.4	176.4	190.2	178.5	163.3	147.3	130.6	108.8	91.5	99.4
87.5°	74.8	74.8	111.7	172.0	154.6	126.2	108.1	92.2	57.3	44.3	45.0
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: P191001

CATALOG NUMBER: GAN-AF-03-LED-U-RW-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1706.0	1707.4	1706.7	1706.0	1706.0	1705.3	1706.0	1706.0
5°	1719.1	1722.6	1722.6	1724.1	1724.1	1724.8	1725.5	1724.8
7.5°	1738.6	1745.2	1749.5	1754.6	1755.3	1756.0	1757.4	1756.0
10°	1758.2	1771.2	1780.7	1790.2	1794.5	1795.9	1797.4	1797.4
12.5°	1782.9	1801.0	1817.7	1834.4	1842.3	1846.7	1846.7	1849.6
15°	1823.5	1841.6	1861.3	1883.8	1897.6	1904.7	1907.0	1907.0
17.5°	1880.8	1896.8	1913.5	1935.2	1952.7	1962.1	1964.3	1963.6
20°	1947.6	1962.8	1972.2	1986.1	2001.3	2012.1	2015.1	2015.1
22.5°	2023.8	2032.5	2033.9	2038.3	2050.6	2065.1	2071.7	2073.1
25°	2108.0	2110.1	2104.3	2104.3	2112.3	2126.1	2132.6	2133.4
27.5°	2216.8	2205.9	2191.4	2186.4	2191.4	2207.3	2215.3	2218.3
30°	2352.5	2326.4	2293.0	2274.8	2272.0	2293.0	2307.5	2309.7
32.5°	2507.8	2470.0	2425.8	2388.8	2379.4	2392.4	2409.9	2409.0
35°	2692.1	2647.1	2593.4	2546.2	2524.4	2537.5	2562.2	2565.2
37.5°	2904.7	2846.0	2784.3	2724.7	2690.7	2694.2	2720.4	2729.1
40°	3142.0	3065.8	2988.1	2908.4	2859.8	2850.2	2882.2	2887.3
42.5°	3396.0	3298.0	3200.0	3101.4	3039.0	3024.5	3061.5	3059.2
45°	3666.7	3541.8	3427.2	3318.4	3244.3	3222.5	3253.0	3253.0
47.5°	3957.6	3803.7	3667.4	3544.0	3463.4	3432.2	3461.3	3463.4
50°	4266.0	4102.7	3942.4	3805.2	3708.7	3668.8	3706.6	3712.3
52.5°	4572.9	4414.0	4252.2	4095.5	3978.7	3930.0	3973.6	3992.5
55°	4884.2	4728.2	4573.6	4420.6	4282.0	4224.6	4271.0	4295.1
57.5°	5213.0	5068.5	4921.2	4766.6	4633.1	4543.9	4593.3	4625.2
60°	5598.2	5474.9	5321.8	5151.3	5016.2	4925.6	4953.8	4982.2
62.5°	5903.0	5950.9	5821.0	5623.7	5450.2	5334.1	5361.7	5391.5
65°	5755.7	6247.0	6362.3	6162.8	5922.6	5741.9	5730.3	5745.5
67.5°	4810.9	5765.1	6461.1	6651.1	6450.1	6199.1	6152.6	6175.1
70°	3218.2	4406.8	5634.5	6548.8	6791.9	6694.7	6649.0	6662.8
72.5°	1545.6	2566.6	3822.7	5038.0	5778.2	6117.8	6226.6	6279.6
75°	565.3	1018.8	1842.3	2776.3	3351.7	3880.0	4224.6	4365.4
77.5°	341.1	411.4	588.5	886.0	1003.5	1123.3	1076.9	1100.1
80°	252.6	285.2	322.9	362.8	375.8	375.8	361.4	349.7
82.5°	177.1	198.1	216.3	238.0	243.8	232.9	191.6	152.4
85°	114.0	123.4	131.3	145.2	141.5	134.9	90.7	80.5
87.5°	52.3	59.5	62.4	68.9	66.1	63.1	45.0	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)