

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: P190792

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190792
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-04-LED-U-5MQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17000.4 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

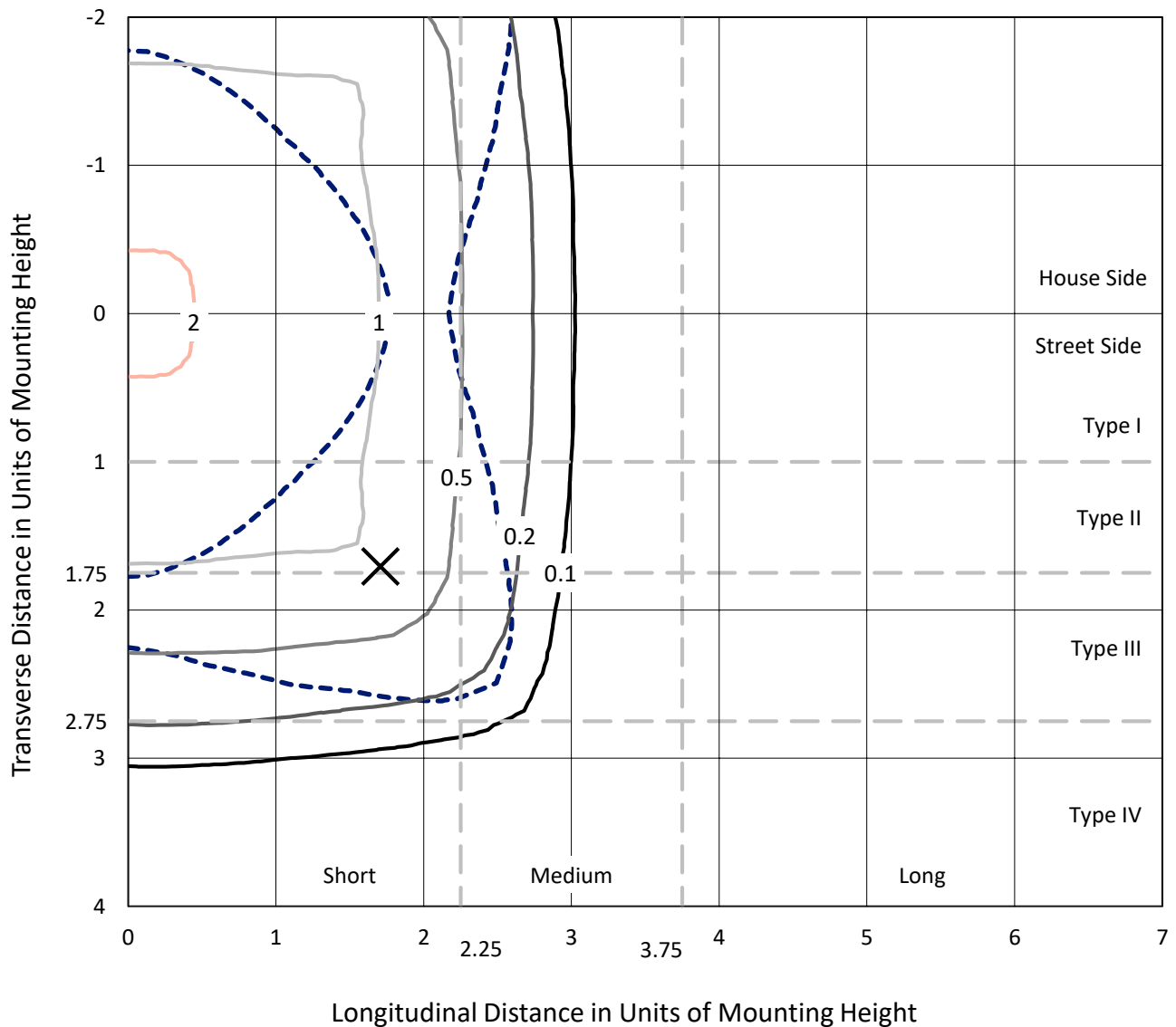
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

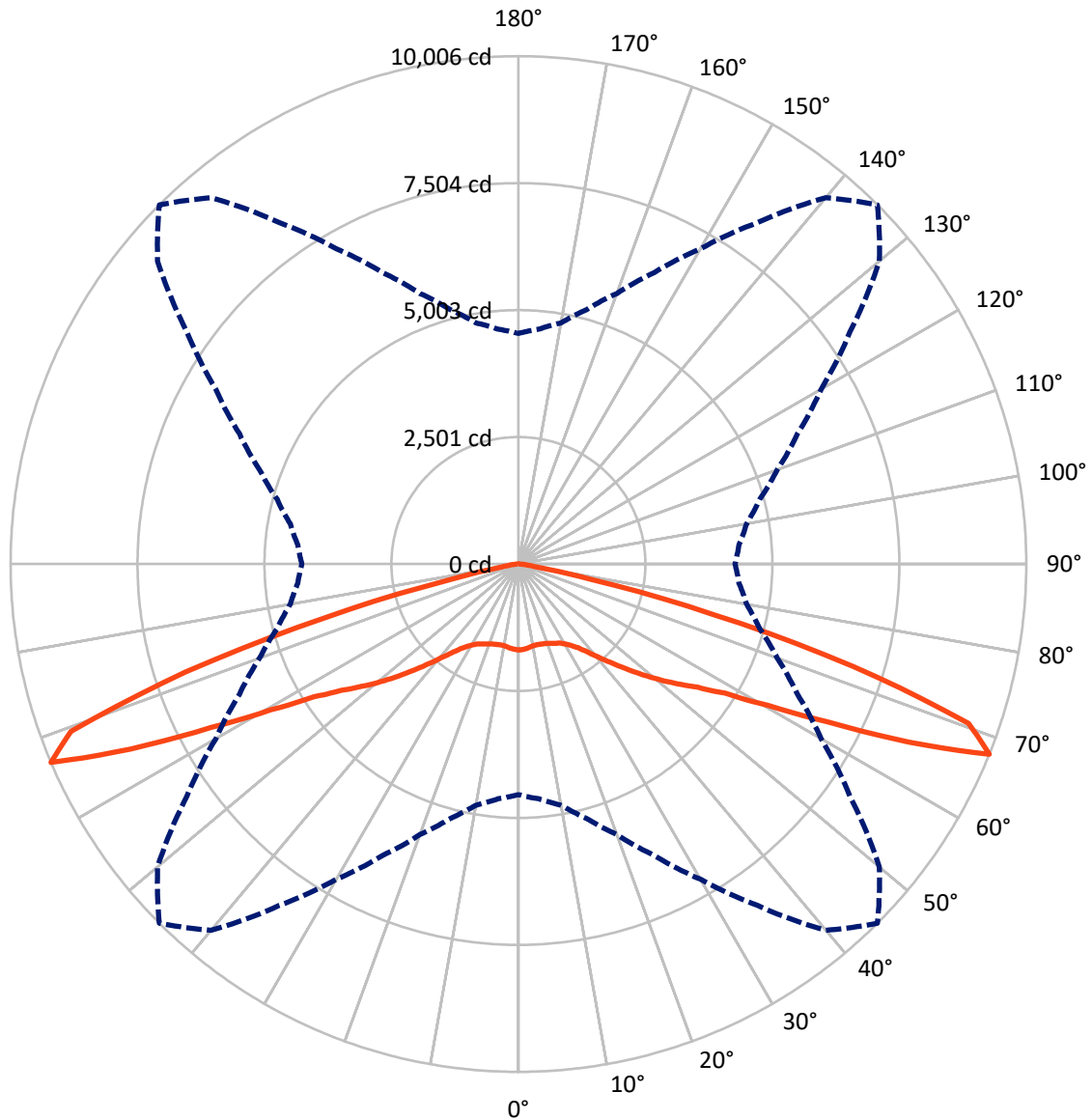
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8500.2	0.0	8500.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8500.2	0.0	8500.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	17000.4	0.0	17000.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	0.9
10°-20°	460.1	2.7
20°-30°	782.2	4.6
30°-40°	1278.7	7.5
40°-50°	2282.7	13.4
50°-60°	3848.6	22.6
60°-70°	5972.5	35.1
70°-80°	2098.5	12.3
80°-90°	118.6	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°	17000.4	100.0
0°-180°	17000.4	100.0



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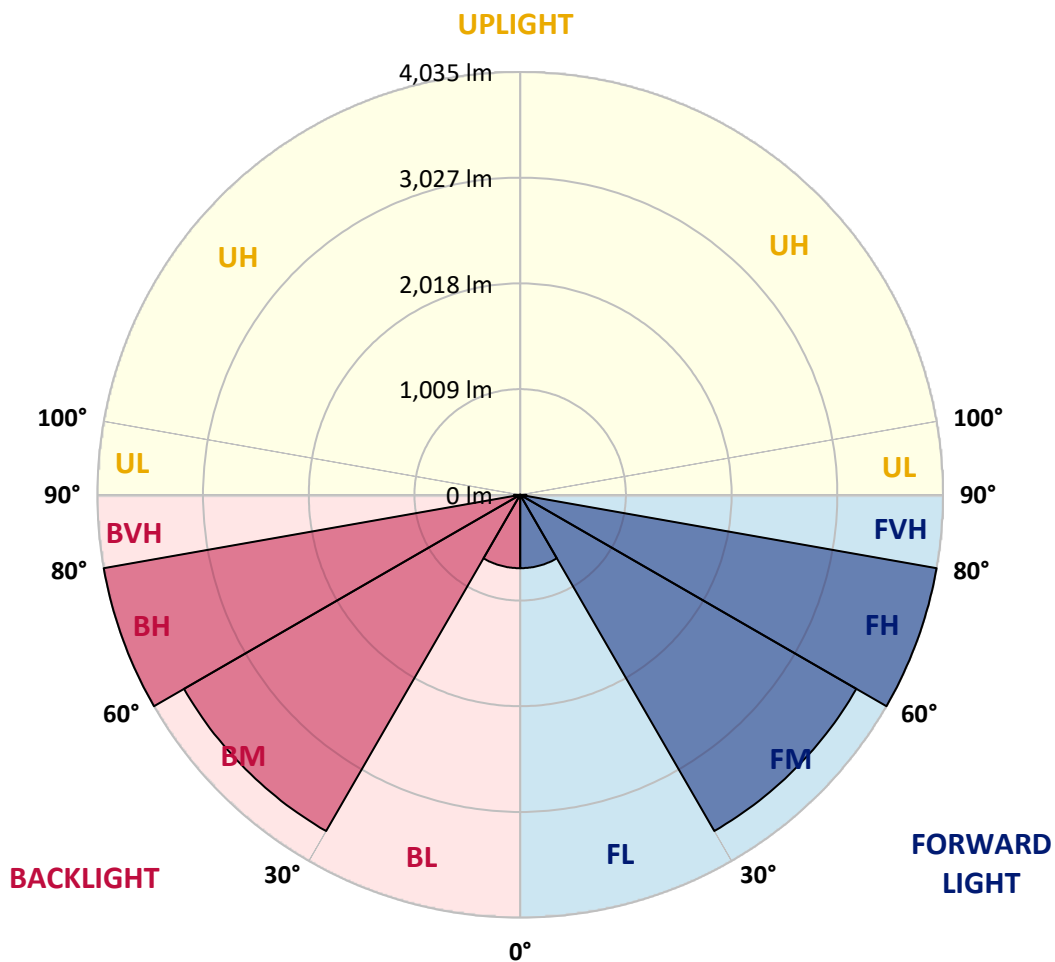
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	700.4	4.1			
FM	(30°-60°)	3705.0	21.8			
FH	(60°-80°)	4035.5	23.7			G2/5000
FVH	(80°-90°)	59.3	0.3			G1/100
BL	(0°-30°)	700.4	4.1	B2/1000		
BM	(30°-60°)	3705.0	21.8	B3/5000		
BH	(60°-80°)	4035.5	23.7	B4/5000		G2/5000
BVH	(80°-90°)	59.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2
2.5°	1687.9	1689.5	1689.5	1689.5	1688.7	1688.7	1687.2	1688.7	1687.9	1685.5	1686.3
5°	1673.9	1675.4	1675.4	1674.6	1676.9	1676.2	1673.9	1675.4	1674.6	1673.0	1673.9
7.5°	1653.5	1655.9	1655.9	1655.0	1657.4	1656.7	1655.0	1655.9	1655.9	1653.5	1653.5
10°	1630.8	1632.4	1632.4	1631.6	1635.5	1635.5	1634.8	1637.1	1637.8	1635.5	1634.0
12.5°	1609.7	1612.1	1612.1	1615.2	1619.1	1620.7	1624.5	1627.7	1630.8	1630.1	1626.9
15°	1597.2	1598.8	1601.9	1605.8	1612.1	1617.6	1623.8	1630.8	1637.1	1638.7	1634.0
17.5°	1589.4	1591.7	1596.4	1601.9	1610.5	1619.8	1629.3	1638.7	1647.3	1650.4	1644.9
20°	1587.0	1588.6	1593.3	1602.7	1614.4	1628.5	1641.7	1652.7	1664.4	1668.3	1664.4
22.5°	1591.7	1594.9	1600.3	1611.2	1626.9	1644.9	1660.6	1675.4	1690.2	1697.3	1691.9
25°	1612.9	1616.0	1623.0	1637.1	1654.3	1673.0	1691.0	1708.2	1721.5	1728.6	1724.7
27.5°	1652.0	1655.9	1664.4	1678.6	1697.3	1717.6	1737.2	1751.2	1762.1	1764.5	1759.9
30°	1710.6	1719.2	1729.3	1744.9	1766.8	1784.0	1803.6	1816.1	1829.4	1829.4	1825.5
32.5°	1802.0	1810.6	1821.6	1836.4	1853.7	1872.4	1889.6	1900.5	1914.7	1915.4	1906.1
35°	1938.9	1942.8	1952.2	1961.5	1977.2	1993.6	2008.5	2015.5	2027.2	2028.0	2019.4
37.5°	2119.5	2120.3	2126.5	2129.6	2143.7	2161.7	2175.7	2180.4	2191.4	2189.8	2181.2
40°	2329.8	2333.7	2336.0	2340.7	2355.5	2372.7	2387.7	2389.9	2401.7	2399.3	2388.4
42.5°	2572.9	2574.5	2587.8	2594.8	2608.8	2617.4	2636.2	2638.6	2652.6	2646.4	2633.9
45°	2845.7	2859.9	2872.3	2886.5	2901.3	2911.4	2926.3	2923.2	2932.5	2923.2	2916.1
47.5°	3132.7	3142.8	3170.9	3192.8	3217.1	3225.7	3246.8	3237.4	3246.8	3233.5	3231.2
50°	3448.6	3466.5	3490.7	3515.8	3541.6	3555.7	3583.0	3571.2	3583.8	3571.2	3564.3
52.5°	3759.7	3764.4	3817.6	3854.3	3890.3	3906.6	3923.1	3917.6	3918.4	3917.6	3910.5
55°	4055.2	4066.1	4119.3	4169.3	4231.8	4278.0	4306.1	4303.0	4296.0	4288.9	4277.3
57.5°	4388.3	4399.2	4460.2	4522.0	4593.0	4658.7	4715.8	4774.4	4797.1	4803.4	4777.6
60°	4838.6	4837.7	4919.1	4994.1	5095.8	5193.5	5318.6	5446.0	5592.3	5660.2	5570.4
62.5°	5296.7	5315.5	5432.7	5565.7	5775.2	5979.2	6209.8	6436.6	6668.0	6856.4	6656.2
65°	5242.0	5313.9	5488.2	5789.3	6176.3	6635.9	7133.1	7659.3	8134.6	8461.4	8094.8
67.5°	4543.0	4645.4	4822.9	5188.8	5672.8	6335.7	7170.7	8211.2	9420.7	10005.5	9280.7
70°	3293.0	3408.7	3594.8	3952.0	4431.2	5061.4	5968.3	7217.6	8818.8	9408.2	8610.0
72.5°	1638.7	1701.2	1816.1	2043.7	2406.4	2917.7	3740.1	4941.0	6357.6	6898.6	6169.2
75°	556.7	585.5	605.1	679.3	794.3	995.2	1404.1	2160.2	3295.3	3950.4	3248.4
77.5°	321.3	322.1	335.4	348.7	368.3	390.2	444.9	584.0	1010.1	1434.6	1045.3
80°	208.0	207.1	218.1	228.3	241.6	252.6	255.6	270.5	311.9	369.8	330.7
82.5°	107.9	121.2	145.5	158.7	183.7	188.4	182.2	176.7	186.9	193.8	198.6
85°	59.4	51.6	77.4	100.0	111.0	112.6	112.6	106.3	110.3	107.9	117.2
87.5°	27.3	25.1	30.5	49.2	52.4	44.6	47.0	41.4	29.7	28.9	32.8
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°	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2	1694.2
2.5°	1686.3	1687.2	1687.2	1689.5	1690.2	1691.9	1693.4	1694.2
5°	1673.0	1675.4	1673.9	1676.2	1676.2	1677.7	1677.7	1678.6
7.5°	1653.5	1655.9	1655.9	1655.9	1655.0	1657.4	1657.4	1657.4
10°	1633.1	1634.8	1634.0	1632.4	1630.8	1633.1	1632.4	1631.6
12.5°	1626.9	1623.0	1619.8	1618.3	1615.2	1616.0	1613.6	1613.6
15°	1630.8	1623.8	1618.3	1616.0	1612.9	1611.2	1609.7	1610.5
17.5°	1641.0	1632.4	1625.4	1621.5	1617.6	1615.2	1612.1	1612.9
20°	1659.0	1648.8	1638.7	1630.8	1623.8	1619.8	1617.6	1616.8
22.5°	1685.5	1670.7	1655.9	1644.1	1634.8	1629.3	1626.9	1625.4
25°	1716.1	1699.6	1682.4	1669.1	1659.7	1652.7	1648.1	1648.1
27.5°	1754.4	1741.1	1725.4	1709.8	1701.2	1694.2	1691.0	1689.5
30°	1818.5	1805.9	1793.4	1778.6	1767.7	1760.6	1755.2	1750.5
32.5°	1900.5	1890.4	1880.2	1869.2	1859.1	1849.7	1841.1	1837.2
35°	2016.2	2008.5	2001.4	1988.9	1985.0	1979.5	1974.8	1970.9
37.5°	2175.7	2172.6	2172.6	2159.3	2156.2	2153.8	2149.2	2149.9
40°	2385.3	2388.4	2384.5	2379.8	2377.4	2371.2	2371.2	2376.7
42.5°	2633.1	2635.4	2644.0	2636.2	2644.8	2637.1	2632.4	2636.2
45°	2920.8	2929.4	2946.6	2938.8	2944.3	2931.0	2914.6	2915.3
47.5°	3243.7	3251.6	3258.5	3253.1	3253.9	3232.0	3210.1	3204.6
50°	3579.1	3582.2	3586.2	3578.3	3579.9	3555.7	3530.6	3531.4
52.5°	3910.5	3925.5	3941.0	3919.9	3915.2	3887.9	3852.7	3838.6
55°	4289.7	4310.8	4292.9	4256.1	4219.4	4182.6	4136.5	4128.7
57.5°	4757.2	4721.3	4665.0	4595.4	4544.6	4493.0	4446.2	4426.5
60°	5407.7	5272.5	5170.8	5067.6	5002.7	4939.4	4877.6	4868.3
62.5°	6327.2	6093.3	5890.9	5677.5	5503.1	5367.1	5258.4	5227.9
65°	7479.5	6926.8	6447.6	6000.3	5611.8	5318.6	5134.1	5052.8
67.5°	7975.1	6883.7	6062.1	5427.3	4919.1	4564.2	4364.8	4265.5
70°	7008.0	5708.7	4815.1	4179.5	3716.7	3338.3	3157.6	3051.4
72.5°	4821.4	3631.5	2871.5	2343.9	1974.1	1657.4	1532.4	1523.0
75°	2164.8	1433.9	988.2	761.5	641.1	557.4	531.6	512.1
77.5°	605.9	448.0	399.5	373.7	348.7	319.8	308.8	311.2
80°	294.7	278.3	267.4	250.9	228.3	204.1	193.1	197.8
82.5°	195.5	193.1	200.2	188.4	155.6	132.2	111.0	101.7
85°	118.9	120.4	122.8	123.6	104.8	73.4	50.0	56.3
87.5°	47.0	53.9	58.6	61.0	57.1	35.2	28.1	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)