

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: P268403

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268403
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17705.9 lumens
Efficiency: N/A
Efficacy: 103.5 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): 171
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

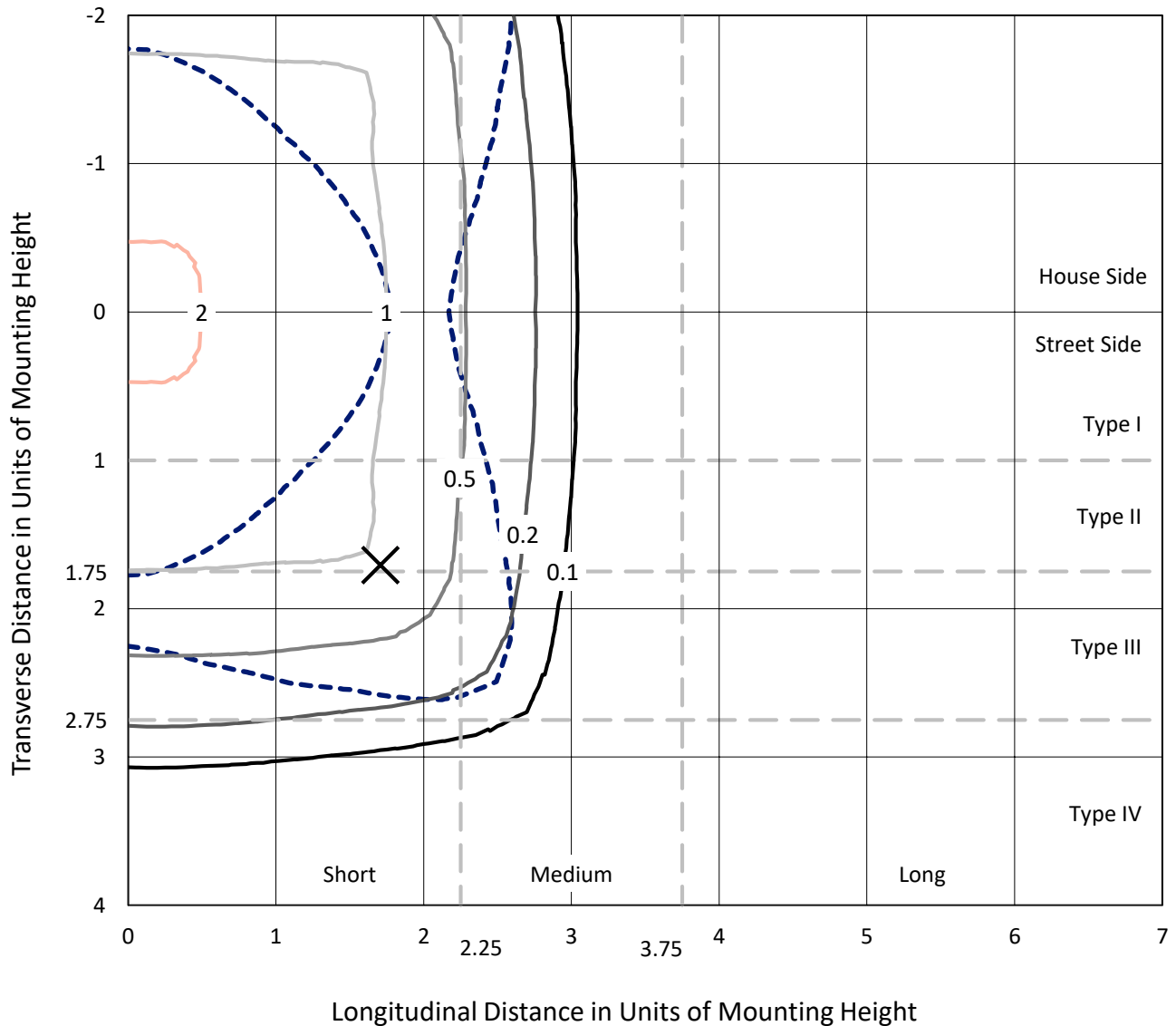


REPORT NUMBER: P268403

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7027-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

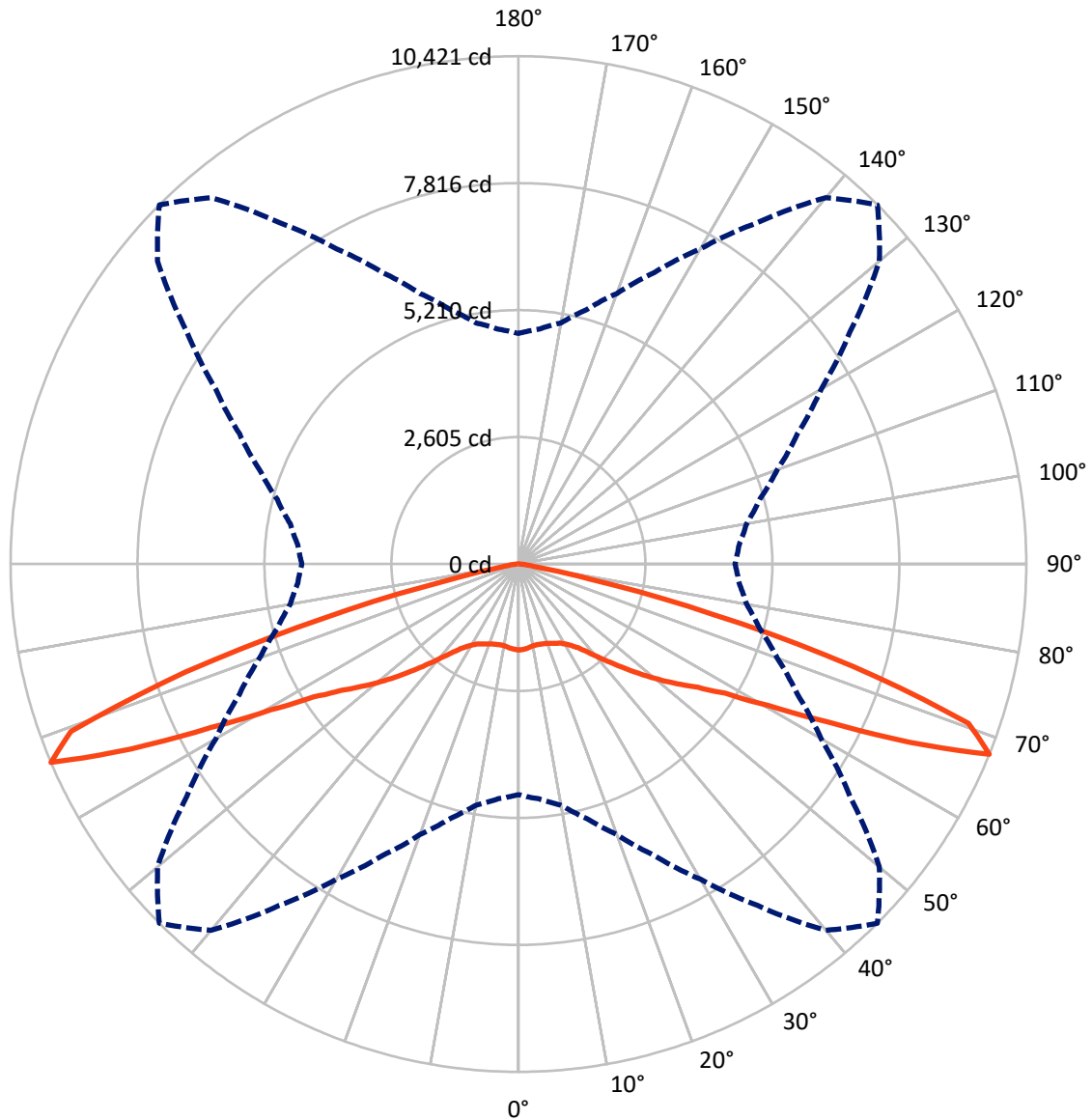


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P268403

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7027-800

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	8853.0	0.0	8853.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8853.0	0.0	8853.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17705.9	0.0	17705.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	0.9
10°-20°	479.2	2.7
20°-30°	814.7	4.6
30°-40°	1331.7	7.5
40°-50°	2377.4	13.4
50°-60°	4008.3	22.6
60°-70°	6220.4	35.1
70°-80°	2185.6	12.3
80°-90°	123.5	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°	17705.9	100.0
0°-180°	17705.9	100.0



REPORT NUMBER: P268403

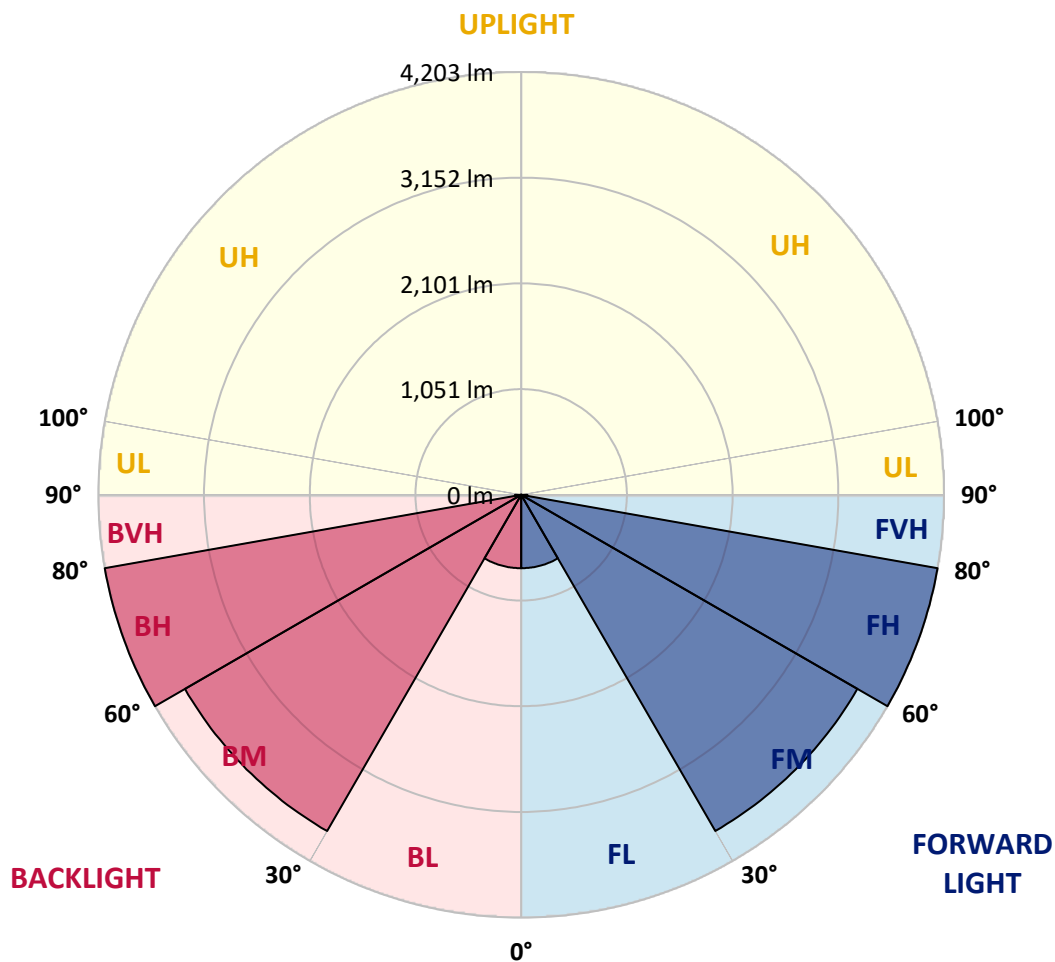
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.5	4.1			
FM	(30°-60°)	3858.7	21.8			
FH	(60°-80°)	4203.0	23.7			G2/5000
FVH	(80°-90°)	61.8	0.3			G1/100
BL	(0°-30°)	729.5	4.1	B2/1000		
BM	(30°-60°)	3858.7	21.8	B3/5000		
BH	(60°-80°)	4203.0	23.7	B4/5000		G2/5000
BVH	(80°-90°)	61.8	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





REPORT NUMBER: P268403

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5
2.5°	1758.0	1759.6	1759.6	1759.6	1758.8	1758.8	1757.2	1758.8	1758.0	1755.5	1756.4
5°	1743.3	1745.0	1745.0	1744.1	1746.6	1745.8	1743.3	1745.0	1744.1	1742.5	1743.3
7.5°	1722.1	1724.6	1724.6	1723.8	1726.3	1725.4	1723.8	1724.6	1724.6	1722.1	1722.1
10°	1698.5	1700.1	1700.1	1699.4	1703.4	1703.4	1702.6	1705.1	1705.8	1703.4	1701.7
12.5°	1676.5	1679.0	1679.0	1682.3	1686.3	1687.9	1692.0	1695.2	1698.5	1697.6	1694.5
15°	1663.5	1665.1	1668.4	1672.5	1679.0	1684.7	1691.1	1698.5	1705.1	1706.7	1701.7
17.5°	1655.3	1657.8	1662.8	1668.4	1677.3	1687.0	1696.9	1706.7	1715.7	1718.8	1713.2
20°	1652.9	1654.6	1659.3	1669.2	1681.4	1696.1	1710.0	1721.3	1733.5	1737.6	1733.5
22.5°	1657.8	1661.1	1666.7	1678.2	1694.5	1713.2	1729.4	1745.0	1760.4	1767.8	1762.0
25°	1679.8	1683.1	1690.4	1705.1	1722.9	1742.5	1761.1	1779.2	1792.9	1800.4	1796.3
27.5°	1720.6	1724.6	1733.5	1748.2	1767.8	1789.0	1809.2	1823.9	1835.2	1837.8	1832.8
30°	1781.6	1790.5	1801.1	1817.5	1840.2	1858.1	1878.4	1891.6	1905.3	1905.3	1901.3
32.5°	1876.7	1885.8	1897.2	1912.8	1930.5	1950.1	1968.0	1979.4	1994.1	1994.9	1985.2
35°	2019.3	2023.4	2033.1	2042.9	2059.3	2076.3	2091.9	2099.1	2111.3	2112.2	2103.2
37.5°	2207.4	2208.3	2214.7	2218.1	2232.6	2251.4	2266.1	2270.9	2282.4	2280.6	2271.8
40°	2426.4	2430.5	2433.0	2437.8	2453.4	2471.2	2486.7	2489.2	2501.4	2498.9	2487.5
42.5°	2679.6	2681.4	2695.2	2702.6	2717.2	2726.0	2745.6	2748.1	2762.7	2756.2	2743.2
45°	2963.9	2978.5	2991.5	3006.2	3021.7	3032.3	3047.7	3044.4	3054.2	3044.4	3037.1
47.5°	3262.6	3273.2	3302.6	3325.3	3350.6	3359.7	3381.6	3371.8	3381.6	3367.7	3365.3
50°	3591.7	3610.4	3635.6	3661.8	3688.5	3703.3	3731.6	3719.5	3732.5	3719.5	3712.2
52.5°	3915.7	3920.7	3976.0	4014.3	4051.6	4068.9	4085.9	4080.2	4081.0	4080.2	4072.8
55°	4223.6	4234.9	4290.2	4342.3	4407.5	4455.6	4484.9	4481.6	4474.3	4466.9	4454.8
57.5°	4570.3	4581.7	4645.2	4709.6	4783.7	4852.0	4911.6	4972.6	4996.3	5002.8	4975.8
60°	5039.3	5038.6	5123.3	5201.4	5307.2	5409.1	5539.3	5672.1	5824.3	5895.1	5801.6
62.5°	5516.5	5536.1	5658.2	5796.7	6014.8	6227.3	6467.5	6703.7	6944.6	7140.9	6932.5
65°	5459.4	5534.5	5716.1	6029.6	6432.6	6911.3	7429.2	7977.2	8472.3	8812.6	8430.8
67.5°	4731.6	4838.2	5023.1	5404.2	5908.2	6598.6	7468.2	8552.0	9811.6	10420.7	9665.9
70°	3429.5	3550.1	3743.9	4116.0	4615.1	5271.4	6215.9	7517.0	9184.7	9798.6	8967.3
72.5°	1706.7	1771.7	1891.6	2128.4	2506.2	3038.7	3895.3	5146.0	6621.4	7185.0	6425.1
75°	579.8	609.9	630.3	707.5	827.2	1036.6	1462.4	2249.7	3432.1	4114.3	3383.1
77.5°	334.7	335.4	349.4	363.2	383.4	406.4	463.3	608.2	1052.0	1494.2	1088.7
80°	216.6	215.8	227.2	237.7	251.5	263.1	266.3	281.7	324.8	385.2	344.4
82.5°	112.4	126.2	151.5	165.3	191.3	196.2	189.7	184.1	194.7	201.8	206.8
85°	62.0	53.8	80.6	104.3	115.6	117.3	117.3	110.8	114.9	112.4	122.1
87.5°	28.4	26.1	31.8	51.4	54.5	46.4	48.9	43.2	30.9	30.2	34.1
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: P268403

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5
2.5°	1756.4	1757.2	1757.2	1759.6	1760.4	1762.0	1763.6	1764.5
5°	1742.5	1745.0	1743.3	1745.8	1745.8	1747.4	1747.4	1748.2
7.5°	1722.1	1724.6	1724.6	1724.6	1723.8	1726.3	1726.3	1726.3
10°	1701.0	1702.6	1701.7	1700.1	1698.5	1701.0	1700.1	1699.4
12.5°	1694.5	1690.4	1687.0	1685.5	1682.3	1683.1	1680.5	1680.5
15°	1698.5	1691.1	1685.5	1683.1	1679.8	1678.2	1676.5	1677.3
17.5°	1709.0	1700.1	1692.9	1688.8	1684.7	1682.3	1679.0	1679.8
20°	1727.8	1717.2	1706.7	1698.5	1691.1	1687.0	1684.7	1683.9
22.5°	1755.5	1740.0	1724.6	1712.3	1702.6	1696.9	1694.5	1692.9
25°	1787.3	1770.2	1752.2	1738.4	1728.7	1721.3	1716.4	1716.4
27.5°	1827.2	1813.3	1797.0	1780.8	1771.7	1764.5	1761.1	1759.6
30°	1893.9	1881.0	1867.8	1852.5	1840.9	1833.7	1828.1	1823.1
32.5°	1979.4	1968.8	1958.2	1946.8	1936.2	1926.5	1917.5	1913.5
35°	2100.0	2091.9	2084.4	2071.4	2067.4	2061.7	2056.8	2052.6
37.5°	2266.1	2262.8	2262.8	2248.9	2245.8	2243.2	2238.3	2239.1
40°	2484.3	2487.5	2483.5	2478.6	2476.1	2469.6	2469.6	2475.3
42.5°	2742.3	2744.9	2753.8	2745.6	2754.7	2746.5	2741.5	2745.6
45°	3042.0	3051.0	3068.9	3060.7	3066.5	3052.6	3035.6	3036.4
47.5°	3378.3	3386.4	3393.7	3388.0	3388.9	3366.0	3343.3	3337.7
50°	3727.5	3730.9	3735.0	3726.8	3728.4	3703.3	3677.1	3677.9
52.5°	4072.8	4088.4	4104.6	4082.6	4077.8	4049.2	4012.5	3997.9
55°	4467.8	4489.8	4471.0	4432.7	4394.5	4356.2	4308.2	4300.0
57.5°	4954.7	4917.2	4858.7	4786.1	4733.2	4679.5	4630.7	4610.2
60°	5632.2	5491.2	5385.3	5277.9	5210.3	5144.5	5080.1	5070.4
62.5°	6589.6	6346.3	6135.3	5913.1	5731.5	5589.9	5476.5	5444.8
65°	7789.9	7214.2	6715.1	6249.2	5844.6	5539.3	5347.2	5262.5
67.5°	8306.1	7169.5	6313.6	5652.4	5123.3	4753.7	4546.0	4442.5
70°	7298.9	5945.6	5015.0	4352.9	3870.9	3476.8	3288.8	3178.1
72.5°	5021.4	3782.1	2990.7	2441.1	2056.0	1726.3	1595.8	1586.1
75°	2254.7	1493.3	1029.2	793.1	667.7	580.6	553.6	533.4
77.5°	631.0	466.6	416.1	389.2	363.2	333.0	321.7	324.1
80°	307.0	289.9	278.5	261.3	237.7	212.4	201.1	206.0
82.5°	203.6	201.1	208.4	196.2	162.1	137.6	115.6	105.8
85°	123.7	125.5	127.7	128.6	109.1	76.5	52.1	58.6
87.5°	48.9	56.1	61.1	63.5	59.5	36.7	29.4	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)