

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: P268321

Luminaire Tested: **GAN-AF-03-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268321
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-03-LED-U-5MQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16585.1 lumens
Efficiency: N/A
Efficacy: 99.9 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

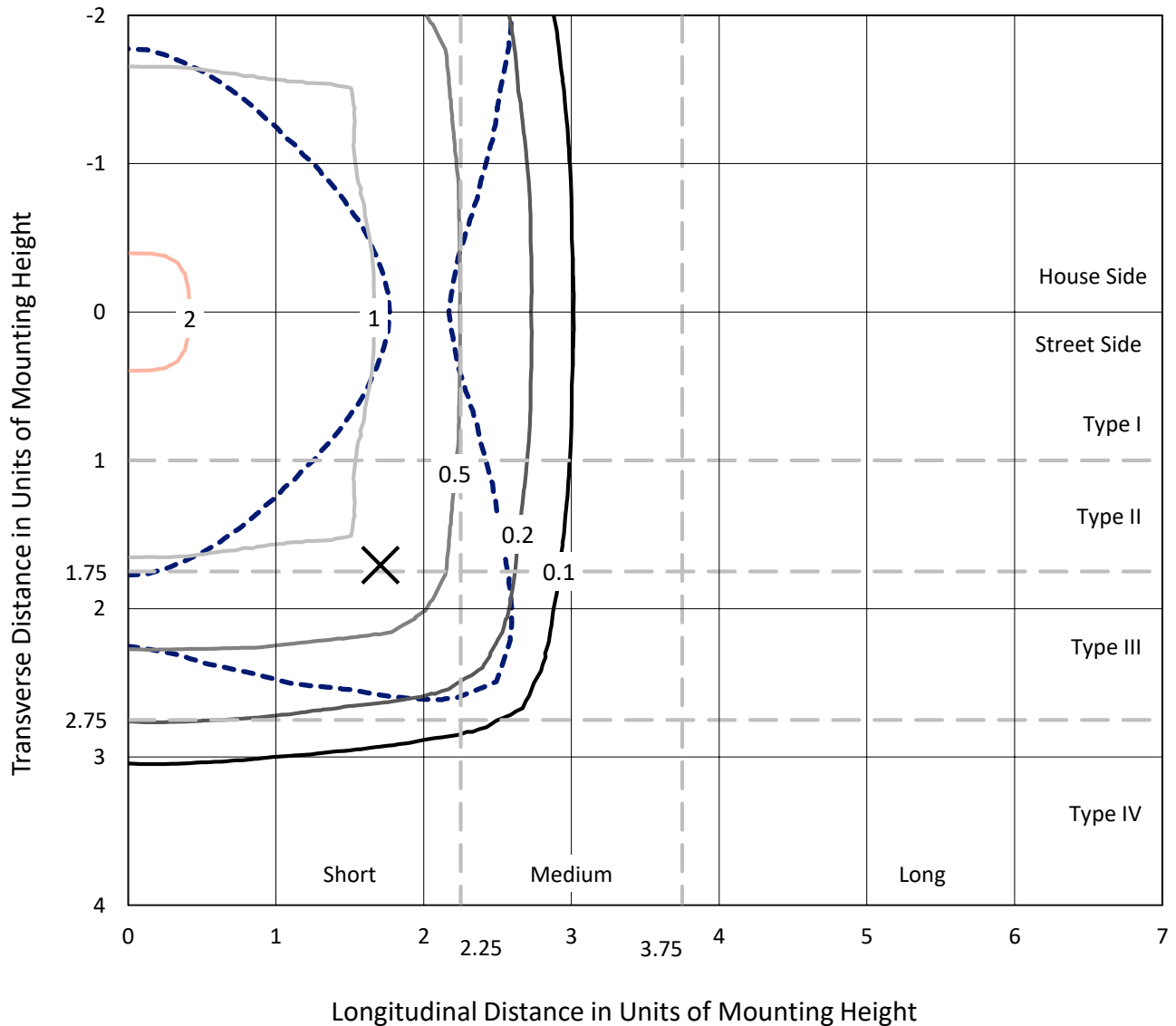
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

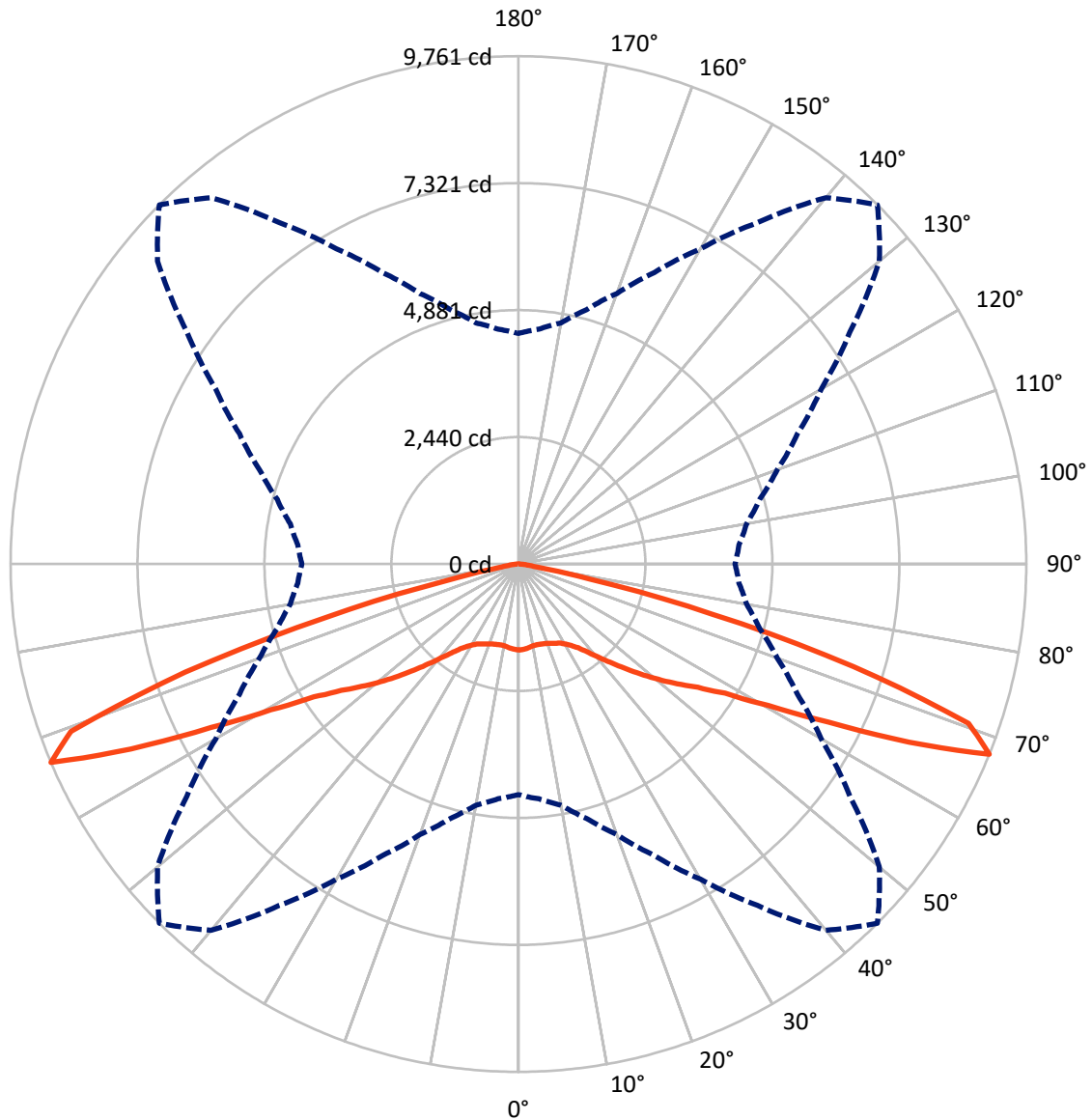
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	8292.5	0.0	8292.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8292.5	0.0	8292.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16585.1	0.0	16585.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	0.9
10°-20°	448.9	2.7
20°-30°	763.1	4.6
30°-40°	1247.4	7.5
40°-50°	2226.9	13.4
50°-60°	3754.6	22.6
60°-70°	5826.6	35.1
70°-80°	2047.2	12.3
80°-90°	115.7	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°	16585.1	100.0
0°-180°	16585.1	100.0



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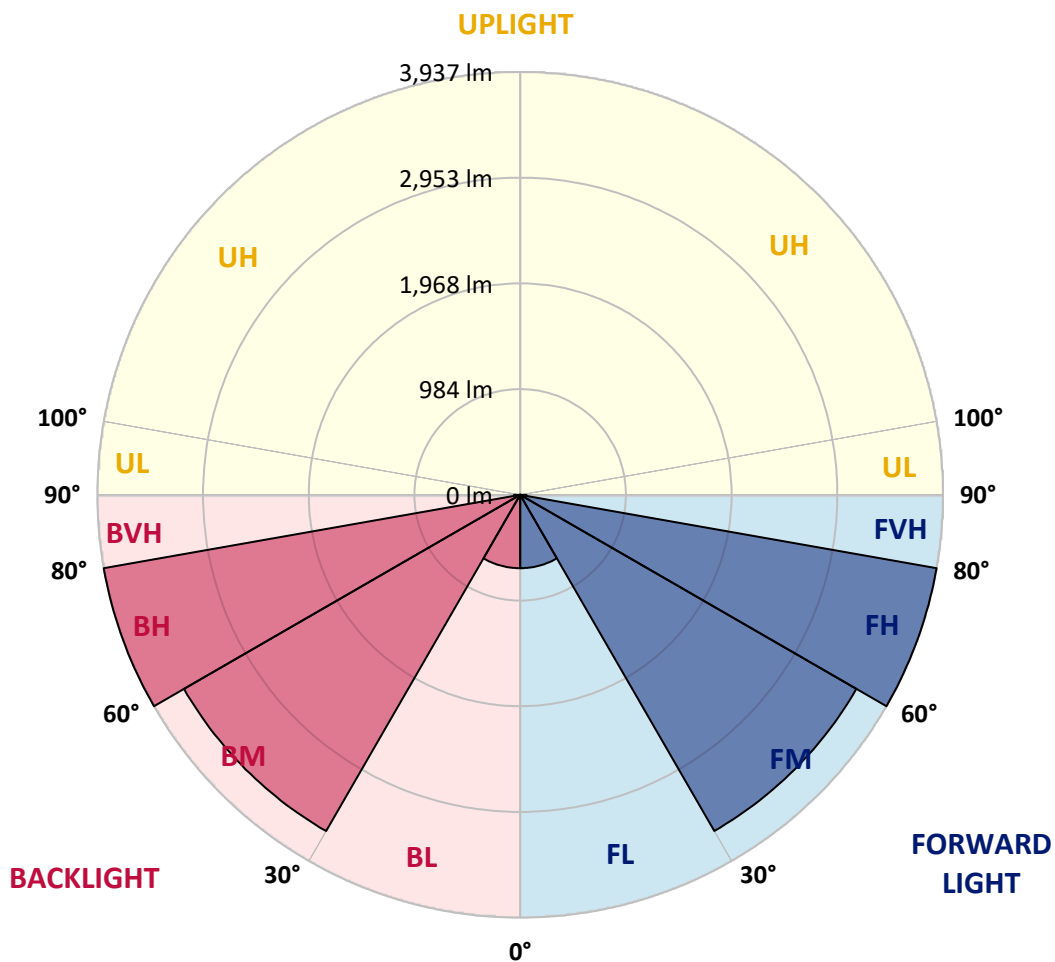
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.3	4.1			
FM	(30°-60°)	3614.5	21.8			
FH	(60°-80°)	3936.9	23.7			G2/5000
FVH	(80°-90°)	57.8	0.3			G1/100
BL	(0°-30°)	683.3	4.1	B2/1000		
BM	(30°-60°)	3614.5	21.8	B3/5000		
BH	(60°-80°)	3936.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	57.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8
2.5°	1646.7	1648.2	1648.2	1648.2	1647.4	1647.4	1646.0	1647.4	1646.7	1644.3	1645.2
5°	1632.9	1634.5	1634.5	1633.7	1636.1	1635.3	1632.9	1634.5	1633.7	1632.2	1632.9
7.5°	1613.0	1615.4	1615.4	1614.7	1616.9	1616.2	1614.7	1615.4	1615.4	1613.0	1613.0
10°	1591.0	1592.5	1592.5	1591.7	1595.6	1595.6	1594.9	1597.0	1597.8	1595.6	1594.0
12.5°	1570.3	1572.8	1572.8	1575.7	1579.6	1581.0	1584.9	1587.9	1591.0	1590.2	1587.1
15°	1558.2	1559.7	1562.8	1566.6	1572.8	1578.1	1584.2	1591.0	1597.0	1598.7	1594.0
17.5°	1550.6	1552.9	1557.4	1562.8	1571.1	1580.3	1589.6	1598.7	1607.0	1610.0	1604.7
20°	1548.3	1549.8	1554.3	1563.5	1575.0	1588.7	1601.7	1612.4	1623.7	1627.5	1623.7
22.5°	1552.9	1556.0	1561.3	1571.9	1587.1	1604.7	1620.0	1634.5	1649.0	1655.8	1650.5
25°	1573.4	1576.4	1583.4	1597.0	1613.8	1632.2	1649.6	1666.4	1679.6	1686.3	1682.5
27.5°	1611.6	1615.4	1623.7	1637.5	1655.8	1675.7	1694.7	1708.4	1719.1	1721.4	1716.8
30°	1668.8	1677.1	1687.0	1702.4	1723.7	1740.5	1759.5	1771.7	1784.8	1784.8	1780.9
32.5°	1758.1	1766.3	1777.0	1791.6	1808.4	1826.7	1843.4	1854.1	1867.8	1868.7	1859.4
35°	1891.6	1895.3	1904.4	1913.6	1928.9	1944.9	1959.4	1966.2	1977.7	1978.4	1970.1
37.5°	2067.7	2068.4	2074.5	2077.6	2091.3	2109.0	2122.5	2127.1	2137.8	2136.3	2127.9
40°	2272.8	2276.7	2278.9	2283.5	2298.0	2314.8	2329.2	2331.6	2343.0	2340.8	2330.1
42.5°	2510.0	2511.7	2524.5	2531.5	2545.2	2553.5	2571.8	2574.2	2587.8	2581.8	2569.5
45°	2776.2	2790.0	2802.2	2815.8	2830.4	2840.4	2854.9	2851.7	2860.9	2851.7	2844.9
47.5°	3056.2	3066.1	3093.6	3114.9	3138.5	3146.9	3167.6	3158.4	3167.6	3154.5	3152.2
50°	3364.2	3381.8	3405.5	3429.9	3455.1	3468.7	3495.5	3484.0	3496.3	3484.0	3477.2
52.5°	3667.8	3672.5	3724.3	3760.1	3795.2	3811.1	3827.1	3821.8	3822.6	3821.8	3815.0
55°	3956.1	3966.8	4018.7	4067.4	4128.5	4173.4	4201.0	4197.9	4191.0	4184.1	4172.7
57.5°	4281.1	4291.7	4351.2	4411.4	4480.8	4545.0	4600.6	4657.8	4679.9	4686.0	4660.9
60°	4720.4	4719.5	4798.9	4872.1	4971.3	5066.6	5188.7	5312.9	5455.5	5521.9	5434.2
62.5°	5167.3	5185.6	5300.0	5429.6	5634.1	5833.1	6058.1	6279.3	6505.0	6688.9	6493.7
65°	5114.0	5184.1	5354.2	5647.9	6025.3	6473.8	6958.9	7472.2	7935.8	8254.7	7897.0
67.5°	4432.1	4531.9	4705.1	5062.0	5534.2	6180.9	6995.6	8010.6	9190.6	9761.1	9054.0
70°	3212.5	3325.3	3507.0	3855.4	4323.1	4937.8	5822.5	7041.3	8603.2	9178.3	8399.6
72.5°	1598.7	1659.7	1771.7	1993.7	2347.6	2846.4	3648.7	4820.2	6202.3	6730.1	6018.5
75°	543.0	571.2	590.4	662.8	774.9	970.9	1369.8	2107.3	3214.8	3853.9	3169.0
77.5°	313.5	314.2	327.3	340.2	359.2	380.6	434.1	569.7	985.4	1399.6	1019.8
80°	202.8	202.1	212.8	222.7	235.6	246.3	249.4	263.9	304.3	360.8	322.6
82.5°	105.2	118.1	141.8	154.8	179.2	183.9	177.8	172.4	182.3	189.2	193.8
85°	58.0	50.3	75.5	97.6	108.2	109.9	109.9	103.8	107.5	105.2	114.4
87.5°	26.7	24.4	29.7	48.1	51.2	43.5	45.8	40.5	28.9	28.2	32.0
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°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8
2.5°	1645.2	1646.0	1646.0	1648.2	1649.0	1650.5	1652.1	1652.8
5°	1632.2	1634.5	1632.9	1635.3	1635.3	1636.7	1636.7	1637.5
7.5°	1613.0	1615.4	1615.4	1615.4	1614.7	1616.9	1616.9	1616.9
10°	1593.2	1594.9	1594.0	1592.5	1591.0	1593.2	1592.5	1591.7
12.5°	1587.1	1583.4	1580.3	1578.9	1575.7	1576.4	1574.2	1574.2
15°	1591.0	1584.2	1578.9	1576.4	1573.4	1571.9	1570.3	1571.1
17.5°	1600.9	1592.5	1585.7	1581.8	1578.1	1575.7	1572.8	1573.4
20°	1618.4	1608.5	1598.7	1591.0	1584.2	1580.3	1578.1	1577.2
22.5°	1644.3	1629.9	1615.4	1604.0	1594.9	1589.6	1587.1	1585.7
25°	1674.1	1658.1	1641.4	1628.4	1619.3	1612.4	1607.7	1607.7
27.5°	1711.5	1698.5	1683.2	1668.1	1659.7	1652.8	1649.6	1648.2
30°	1774.1	1761.8	1749.5	1735.2	1724.4	1717.6	1712.3	1707.7
32.5°	1854.1	1844.2	1834.2	1823.6	1813.7	1804.5	1796.3	1792.4
35°	1967.0	1959.4	1952.6	1940.2	1936.4	1931.1	1926.5	1922.7
37.5°	2122.5	2119.6	2119.6	2106.5	2103.6	2101.2	2096.6	2097.5
40°	2327.0	2330.1	2326.3	2321.7	2319.3	2313.2	2313.2	2318.6
42.5°	2568.8	2571.0	2579.5	2571.8	2580.2	2572.6	2568.1	2571.8
45°	2849.5	2857.9	2874.7	2867.0	2872.3	2859.3	2843.3	2844.2
47.5°	3164.5	3172.1	3178.9	3173.6	3174.4	3153.1	3131.6	3126.3
50°	3491.6	3494.6	3498.4	3490.9	3492.4	3468.7	3444.3	3445.1
52.5°	3815.0	3829.6	3844.7	3824.2	3819.7	3793.0	3758.6	3744.9
55°	4184.9	4205.5	4188.0	4152.1	4116.4	4080.5	4035.5	4027.8
57.5°	4641.1	4606.0	4551.1	4483.1	4433.6	4383.2	4337.5	4318.4
60°	5275.6	5143.6	5044.5	4943.8	4880.5	4818.8	4758.5	4749.2
62.5°	6172.6	5944.5	5746.9	5538.7	5368.6	5236.0	5130.0	5100.1
65°	7296.8	6757.5	6290.0	5853.7	5474.7	5188.7	5008.7	4929.3
67.5°	7780.3	6715.5	5914.0	5294.7	4798.9	4452.7	4258.1	4161.3
70°	6836.8	5569.2	4697.4	4077.3	3625.9	3256.7	3080.6	2976.9
72.5°	4703.5	3542.7	2801.5	2286.5	1925.8	1616.9	1494.9	1485.7
75°	2111.9	1398.8	964.1	742.9	625.4	543.8	518.6	499.5
77.5°	591.1	437.0	389.8	364.5	340.2	311.9	301.3	303.5
80°	287.5	271.5	260.9	244.8	222.7	199.1	188.4	193.0
82.5°	190.7	188.4	195.2	183.9	151.8	128.8	108.2	99.2
85°	115.9	117.5	119.7	120.6	102.1	71.7	48.8	54.9
87.5°	45.8	52.6	57.2	59.5	55.7	34.3	27.5	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)