

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: P193333

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193333
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-05-LED-U-5MQ-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 16802 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 162
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

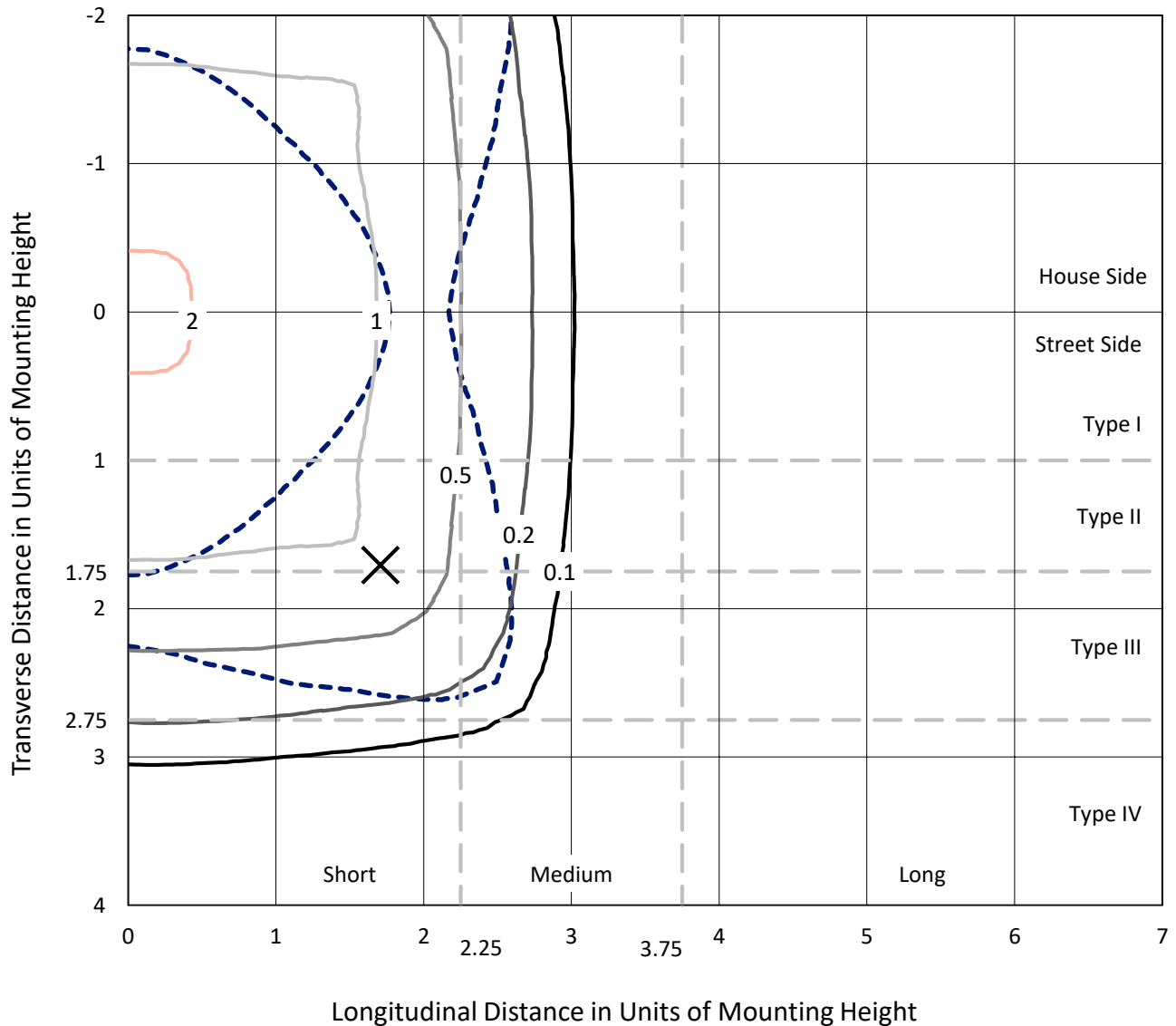


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

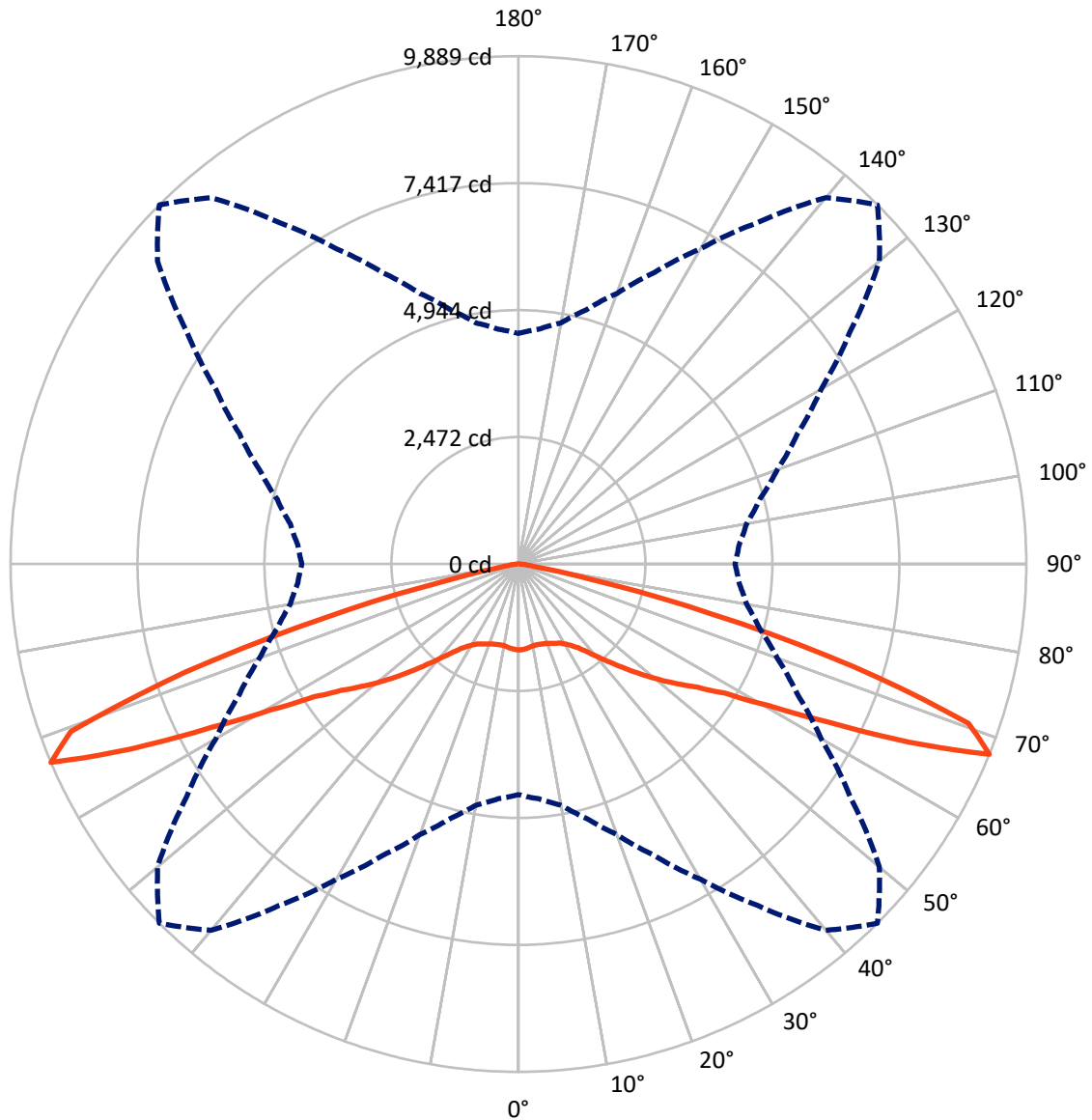


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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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	8401.0	0.0	8401.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8401.0	0.0	8401.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16802.0	0.0	16802.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	0.9
10°-20°	454.8	2.7
20°-30°	773.1	4.6
30°-40°	1263.7	7.5
40°-50°	2256.0	13.4
50°-60°	3803.7	22.6
60°-70°	5902.8	35.1
70°-80°	2074.0	12.3
80°-90°	117.2	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°	16802.0	100.0
0°-180°	16802.0	100.0



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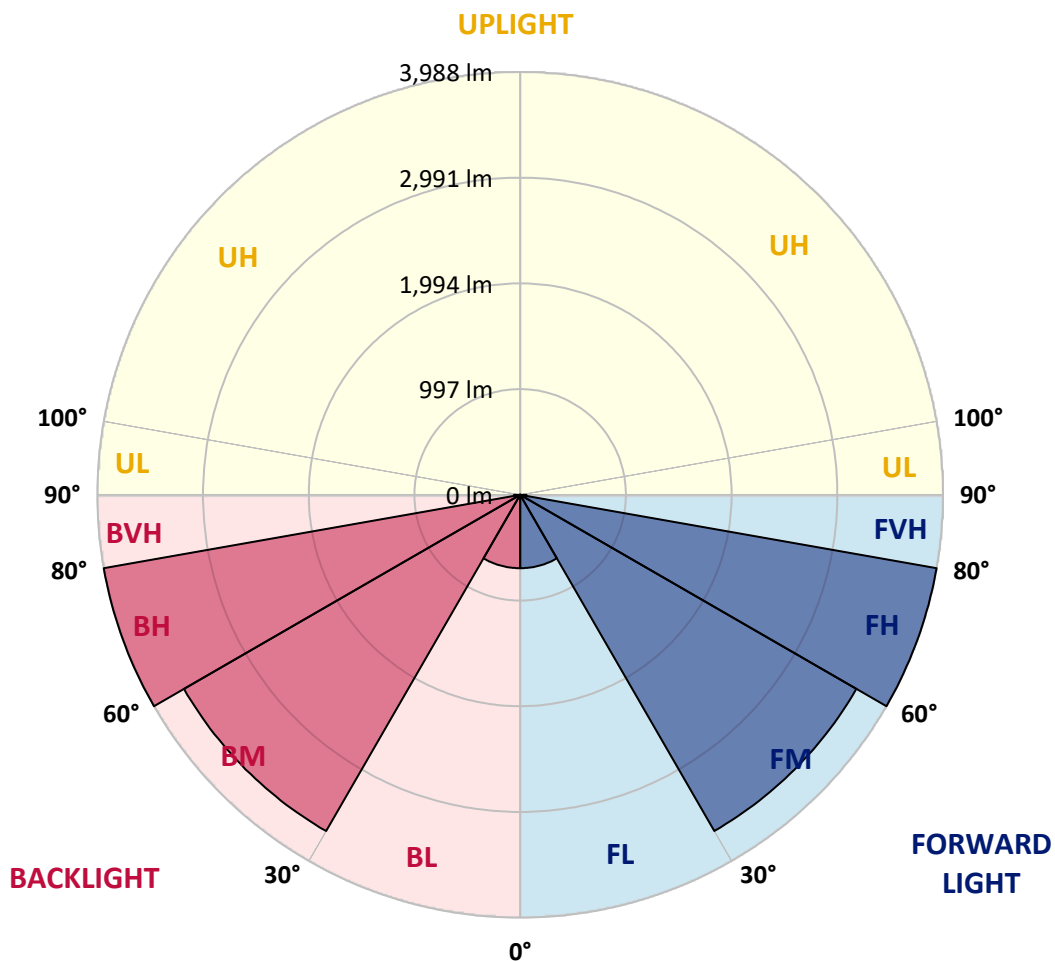
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.3	4.1			
FM (30°-60°)	3661.7	21.8			
FH (60°-80°)	3988.4	23.7			G2/5000
FVH (80°-90°)	58.6	0.3			G1/100
BL (0°-30°)	692.3	4.1	B2/1000		
BM (30°-60°)	3661.7	21.8	B3/5000		
BH (60°-80°)	3988.4	23.7	B4/5000		G2/5000
BVH (80°-90°)	58.6	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°	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4
2.5°	1668.2	1669.8	1669.8	1669.8	1669.0	1669.0	1667.4	1669.0	1668.2	1665.9	1666.7
5°	1654.3	1655.8	1655.8	1655.1	1657.4	1656.6	1654.3	1655.8	1655.1	1653.5	1654.3
7.5°	1634.2	1636.5	1636.5	1635.8	1638.1	1637.3	1635.8	1636.5	1636.5	1634.2	1634.2
10°	1611.8	1613.3	1613.3	1612.6	1616.4	1616.4	1615.7	1618.0	1618.8	1616.4	1614.9
12.5°	1590.9	1593.3	1593.3	1596.3	1600.2	1601.8	1605.6	1608.7	1611.8	1611.0	1607.9
15°	1578.6	1580.1	1583.2	1587.1	1593.3	1598.7	1604.8	1611.8	1618.0	1619.5	1614.9
17.5°	1570.9	1573.2	1577.8	1583.2	1591.7	1601.0	1610.3	1619.5	1628.0	1631.1	1625.7
20°	1568.5	1570.1	1574.7	1584.0	1595.6	1609.5	1622.6	1633.4	1645.0	1648.9	1645.0
22.5°	1573.2	1576.3	1581.7	1592.5	1607.9	1625.7	1641.2	1655.8	1670.5	1677.5	1672.1
25°	1594.0	1597.1	1604.1	1618.0	1635.0	1653.5	1671.3	1688.3	1701.4	1708.4	1704.5
27.5°	1632.7	1636.5	1645.0	1658.9	1677.5	1697.6	1716.9	1730.8	1741.6	1743.9	1739.3
30°	1690.6	1699.1	1709.2	1724.6	1746.2	1763.2	1782.6	1794.9	1808.1	1808.1	1804.2
32.5°	1781.0	1789.5	1800.3	1815.0	1832.0	1850.6	1867.6	1878.4	1892.3	1893.1	1883.8
35°	1916.2	1920.1	1929.4	1938.6	1954.1	1970.3	1985.0	1992.0	2003.6	2004.3	1995.8
37.5°	2094.7	2095.5	2101.7	2104.8	2118.7	2136.5	2150.4	2155.0	2165.8	2164.3	2155.8
40°	2302.6	2306.4	2308.8	2313.4	2328.1	2345.1	2359.8	2362.1	2373.7	2371.3	2360.5
42.5°	2542.9	2544.4	2557.6	2564.5	2578.4	2586.9	2605.5	2607.8	2621.7	2615.5	2603.1
45°	2812.5	2826.5	2838.8	2852.7	2867.4	2877.4	2892.1	2889.0	2898.3	2889.0	2882.1
47.5°	3096.1	3106.2	3134.0	3155.6	3179.6	3188.1	3208.9	3199.7	3208.9	3195.8	3193.5
50°	3408.3	3426.0	3450.0	3474.7	3500.2	3514.1	3541.2	3529.6	3541.9	3529.6	3522.6
52.5°	3715.8	3720.4	3773.0	3809.3	3844.8	3861.1	3877.3	3871.9	3872.7	3871.9	3864.9
55°	4007.9	4018.7	4071.2	4120.7	4182.5	4228.1	4255.9	4252.8	4245.9	4238.9	4227.3
57.5°	4337.0	4347.9	4408.1	4469.2	4539.5	4604.4	4660.8	4718.7	4741.1	4747.3	4721.8
60°	4782.1	4781.3	4861.7	4935.9	5036.3	5132.9	5256.5	5382.5	5527.0	5594.2	5505.3
62.5°	5234.9	5253.4	5369.3	5500.7	5707.8	5909.4	6137.4	6361.4	6590.2	6776.4	6578.6
65°	5180.8	5251.9	5424.2	5721.7	6104.1	6558.5	7049.9	7569.9	8039.7	8362.7	8000.3
67.5°	4490.0	4591.2	4766.6	5128.3	5606.5	6261.8	7087.0	8115.4	9310.8	9888.7	9172.4
70°	3254.5	3368.9	3552.8	3905.9	4379.5	5002.3	5898.6	7133.4	8715.8	9298.4	8509.5
72.5°	1619.5	1681.3	1794.9	2019.8	2378.3	2883.6	3696.5	4883.3	6283.4	6818.1	6097.2
75°	550.1	578.7	598.1	671.5	785.0	983.6	1387.7	2134.9	3256.8	3904.3	3210.5
77.5°	317.6	318.3	331.5	344.6	363.9	385.6	439.7	577.2	998.3	1417.9	1033.1
80°	205.5	204.8	215.6	225.6	238.8	249.6	252.7	267.3	308.3	365.5	326.8
82.5°	106.6	119.8	143.7	156.9	181.6	186.2	180.0	174.6	184.7	191.6	196.3
85°	58.7	51.0	76.5	98.9	109.7	111.3	111.3	105.1	108.9	106.6	115.9
87.5°	27.0	24.7	30.1	48.7	51.8	44.0	46.4	41.0	29.4	28.6	32.5
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°	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4
2.5°	1666.7	1667.4	1667.4	1669.8	1670.5	1672.1	1673.6	1674.4
5°	1653.5	1655.8	1654.3	1656.6	1656.6	1658.2	1658.2	1658.9
7.5°	1634.2	1636.5	1636.5	1636.5	1635.8	1638.1	1638.1	1638.1
10°	1614.1	1615.7	1614.9	1613.3	1611.8	1614.1	1613.3	1612.6
12.5°	1607.9	1604.1	1601.0	1599.4	1596.3	1597.1	1594.8	1594.8
15°	1611.8	1604.8	1599.4	1597.1	1594.0	1592.5	1590.9	1591.7
17.5°	1621.8	1613.3	1606.4	1602.5	1598.7	1596.3	1593.3	1594.0
20°	1639.6	1629.6	1619.5	1611.8	1604.8	1601.0	1598.7	1597.9
22.5°	1665.9	1651.2	1636.5	1624.9	1615.7	1610.3	1607.9	1606.4
25°	1696.0	1679.8	1662.8	1649.7	1640.4	1633.4	1628.8	1628.8
27.5°	1733.9	1720.8	1705.3	1689.8	1681.3	1674.4	1671.3	1669.8
30°	1797.2	1784.9	1772.5	1757.8	1747.0	1740.1	1734.7	1730.0
32.5°	1878.4	1868.3	1858.3	1847.5	1837.4	1828.2	1819.7	1815.8
35°	1992.7	1985.0	1978.1	1965.7	1961.8	1956.4	1951.8	1947.9
37.5°	2150.4	2147.3	2147.3	2134.1	2131.0	2128.7	2124.1	2124.9
40°	2357.4	2360.5	2356.7	2352.0	2349.7	2343.5	2343.5	2348.9
42.5°	2602.4	2604.7	2613.2	2605.5	2614.0	2606.2	2601.6	2605.5
45°	2886.7	2895.2	2912.2	2904.5	2909.9	2896.8	2880.5	2881.3
47.5°	3205.8	3213.6	3220.5	3215.1	3215.9	3194.2	3172.6	3167.2
50°	3537.3	3540.4	3544.3	3536.5	3538.1	3514.1	3489.4	3490.2
52.5°	3864.9	3879.6	3895.1	3874.2	3869.6	3842.5	3807.8	3793.8
55°	4239.7	4260.5	4242.8	4206.5	4170.1	4133.8	4088.2	4080.5
57.5°	4701.7	4666.2	4610.6	4541.8	4491.6	4440.6	4394.2	4374.9
60°	5344.6	5210.9	5110.5	5008.5	4944.4	4881.8	4820.7	4811.5
62.5°	6253.3	6022.2	5822.1	5611.2	5438.9	5304.4	5197.0	5166.9
65°	7392.2	6845.9	6372.3	5930.3	5546.3	5256.5	5074.2	4993.8
67.5°	7882.1	6803.4	5991.3	5363.9	4861.7	4510.9	4313.9	4215.7
70°	6926.3	5642.1	4758.9	4130.7	3673.3	3299.3	3120.8	3015.8
72.5°	4765.1	3589.1	2838.0	2316.5	1951.0	1638.1	1514.4	1505.2
75°	2139.5	1417.1	976.7	752.6	633.6	550.9	525.4	506.1
77.5°	598.8	442.7	394.8	369.3	344.6	316.0	305.2	307.5
80°	291.3	275.1	264.3	248.0	225.6	201.7	190.9	195.5
82.5°	193.2	190.9	197.8	186.2	153.8	130.6	109.7	100.4
85°	117.4	119.0	121.3	122.1	103.5	72.6	49.5	55.6
87.5°	46.4	53.3	58.0	60.3	56.4	34.8	27.8	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)