

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: P268491

Luminaire Tested: **GAN-AF-05-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21996 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 210
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

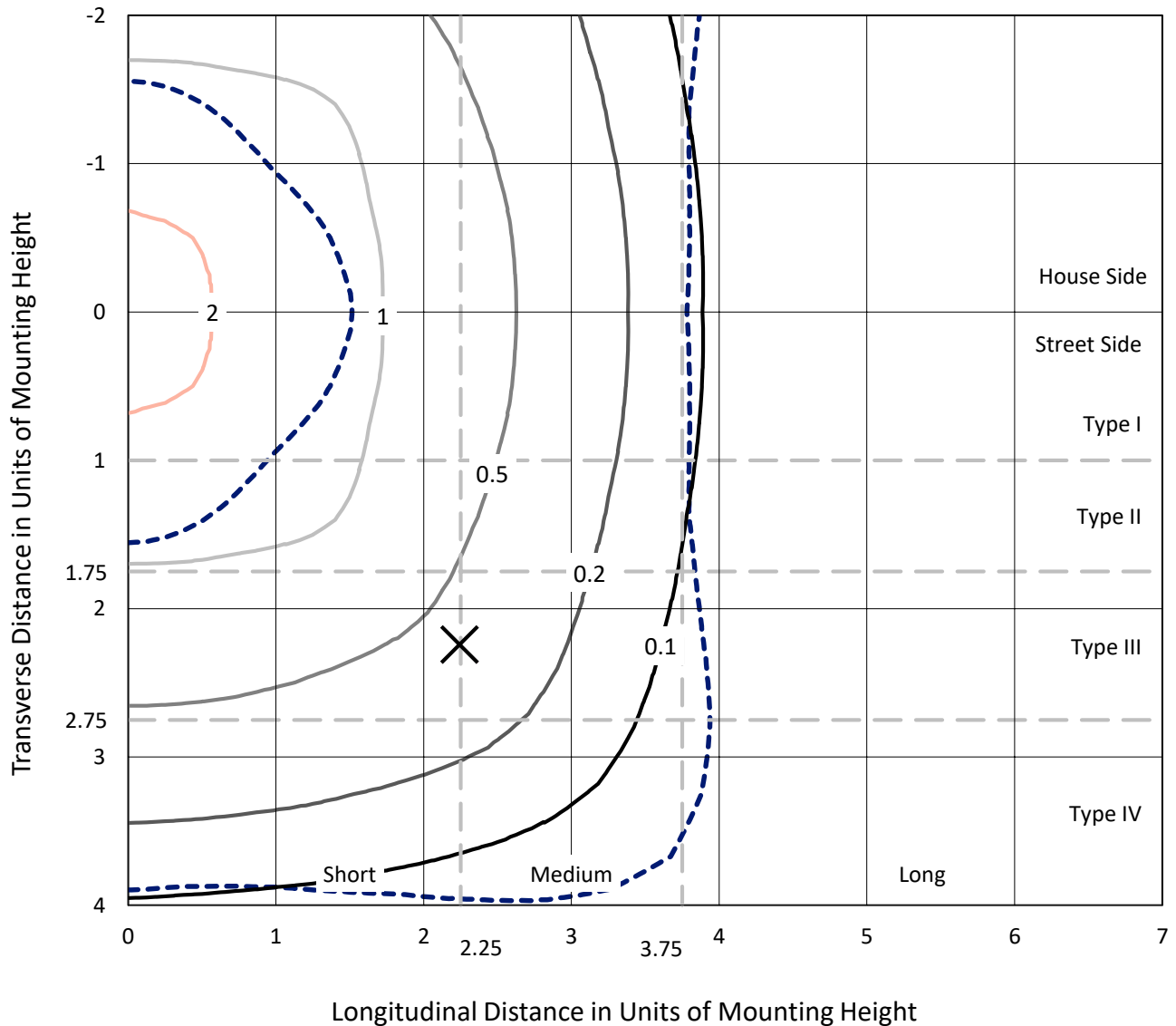


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

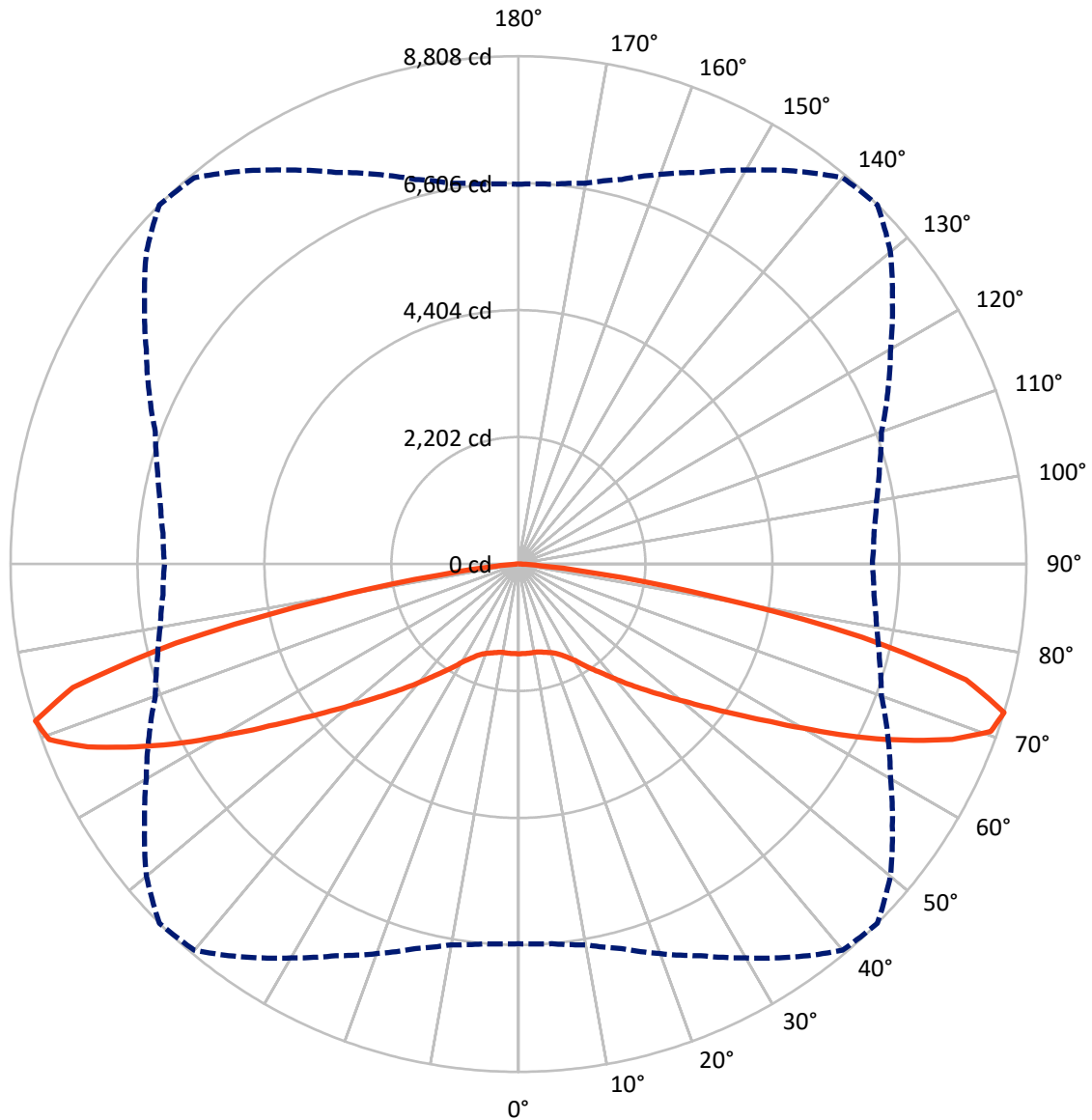


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10998.0	0.0	10998.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10998.0	0.0	10998.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21996.0	0.0	21996.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	0.7
10°-20°	451.7	2.1
20°-30°	825.5	3.8
30°-40°	1423.3	6.5
40°-50°	2433.1	11.1
50°-60°	3943.8	17.9
60°-70°	6542.6	29.7
70°-80°	5762.5	26.2
80°-90°	464.6	2.1
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°	21996.0	100.0
0°-180°	21996.0	100.0



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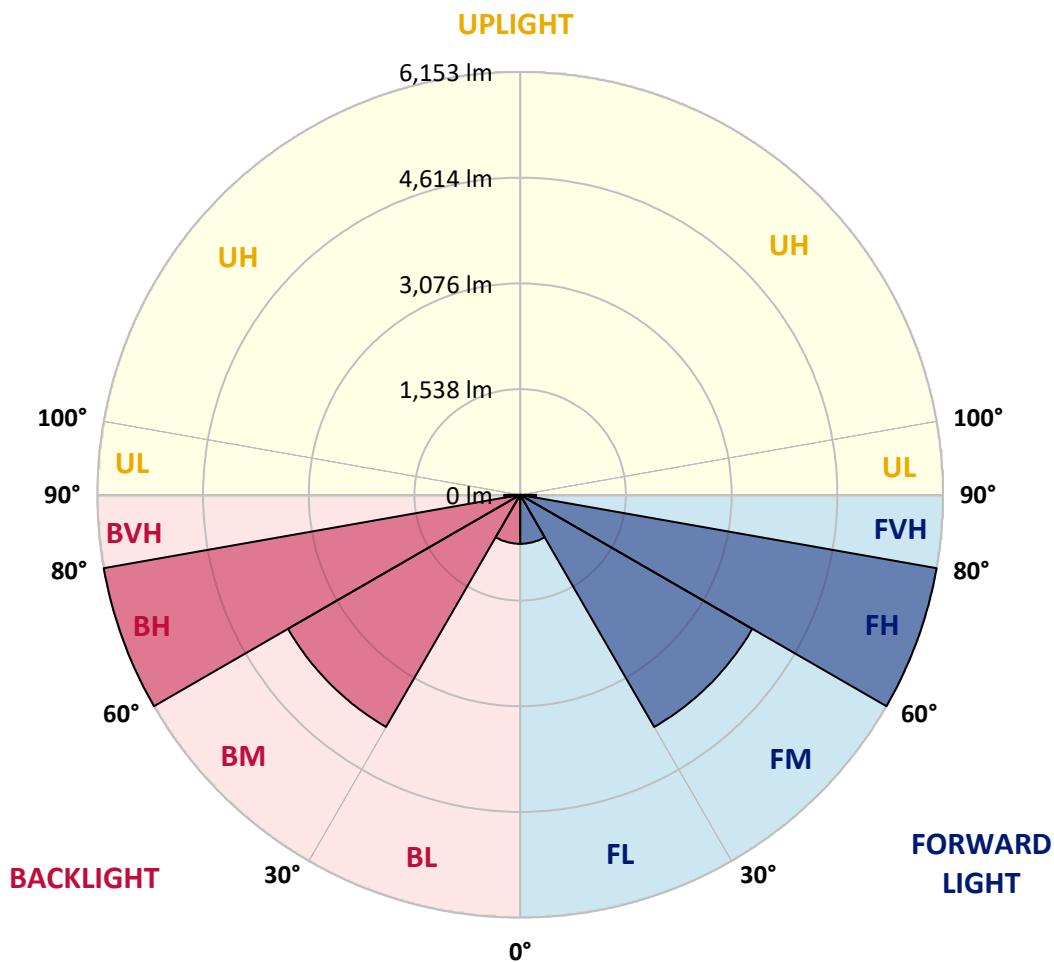
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.0	3.2			
FM	(30°-60°)	3900.1	17.7			
FH	(60°-80°)	6152.6	28.0			G3/7500
FVH	(80°-90°)	232.3	1.1			G3/500
BL	(0°-30°)	713.0	3.2	B2/1000		
BM	(30°-60°)	3900.1	17.7	B3/5000		
BH	(60°-80°)	6152.6	28.0	B5		G3/7500
BVH	(80°-90°)	232.3	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1557.7	1558.6	1559.6	1558.6	1558.6	1557.7	1556.7	1557.7	1556.7	1554.6	1555.7
5°	1562.7	1564.7	1564.7	1562.7	1563.7	1562.7	1560.6	1561.8	1559.6	1556.7	1556.7
7.5°	1568.8	1569.8	1569.8	1567.7	1568.8	1566.7	1564.7	1563.7	1561.8	1557.7	1554.6
10°	1577.9	1578.9	1577.9	1575.7	1575.7	1572.8	1567.7	1565.7	1561.8	1555.7	1552.6
12.5°	1587.9	1588.9	1587.9	1585.9	1584.9	1579.8	1575.7	1572.8	1569.8	1564.7	1559.6
15°	1602.0	1604.1	1602.0	1598.1	1595.0	1591.0	1588.9	1589.9	1591.0	1586.9	1581.8
17.5°	1628.3	1629.3	1626.2	1617.2	1613.1	1609.1	1609.1	1611.1	1614.2	1612.2	1607.1
20°	1676.6	1673.7	1666.6	1655.5	1650.5	1643.4	1642.5	1643.4	1643.4	1642.5	1638.4
22.5°	1737.2	1735.3	1726.2	1712.0	1705.0	1700.9	1694.8	1689.8	1688.9	1685.8	1681.7
25°	1809.8	1808.8	1797.8	1785.7	1780.6	1775.6	1770.5	1763.5	1757.4	1750.3	1746.3
27.5°	1902.7	1898.7	1882.5	1876.5	1869.5	1866.4	1859.3	1851.2	1846.1	1837.2	1832.1
30°	2004.6	2004.6	1991.5	1989.4	1989.4	1982.4	1974.4	1960.2	1951.1	1942.0	1939.0
32.5°	2106.4	2107.5	2094.4	2098.4	2101.4	2106.4	2108.5	2103.4	2097.5	2096.4	2090.4
35°	2253.8	2249.7	2236.6	2239.7	2238.7	2237.6	2237.6	2248.6	2250.8	2252.8	2240.6
37.5°	2436.4	2436.4	2423.3	2423.3	2417.2	2411.1	2403.1	2410.2	2421.2	2424.3	2416.3
40°	2645.1	2652.2	2636.2	2635.1	2637.2	2617.9	2608.9	2619.9	2627.1	2639.1	2630.1
42.5°	2891.4	2886.3	2870.2	2868.2	2857.1	2851.0	2843.0	2851.9	2863.1	2871.2	2874.1
45°	3127.4	3123.3	3105.3	3105.3	3094.1	3089.1	3093.1	3108.2	3113.3	3124.3	3135.5
47.5°	3360.5	3355.3	3343.3	3348.3	3349.4	3358.5	3371.6	3385.7	3399.8	3414.9	3419.9
50°	3598.5	3599.6	3586.5	3598.5	3613.7	3638.9	3674.2	3697.5	3726.7	3745.8	3752.0
52.5°	3815.5	3819.6	3833.5	3861.9	3892.1	3941.6	4002.0	4058.6	4107.1	4139.3	4137.2
55°	4075.7	4081.8	4116.2	4164.5	4213.9	4288.6	4378.3	4478.3	4559.0	4605.4	4576.1
57.5°	4408.6	4421.7	4460.2	4525.8	4599.3	4696.2	4819.2	4969.6	5094.6	5157.2	5109.7
60°	4865.7	4873.8	4920.1	4992.8	5081.5	5201.6	5366.0	5567.9	5744.3	5827.0	5772.6
62.5°	5468.0	5483.1	5520.4	5594.0	5684.8	5821.0	6021.8	6274.0	6493.9	6608.9	6485.9
65°	6187.3	6235.7	6266.9	6341.7	6426.4	6570.7	6780.4	7050.8	7287.0	7362.6	7220.2
67.5°	6899.5	6941.8	6996.3	7082.1	7167.8	7330.3	7525.0	7787.2	8046.6	8115.2	7894.2
70°	7211.2	7235.5	7320.2	7437.2	7601.6	7793.3	8018.4	8312.8	8633.7	8690.3	8409.8
72.5°	6586.7	6610.9	6705.8	6904.6	7191.0	7495.6	7888.1	8321.0	8744.7	8808.2	8421.8
75°	4981.7	4942.4	5082.6	5345.9	5732.3	6157.1	6705.8	7326.2	7938.6	8018.4	7557.4
77.5°	2574.6	2569.5	2675.4	3002.3	3463.3	3946.7	4551.0	5252.0	5851.3	6093.5	5718.2
80°	725.3	733.5	784.0	946.4	1215.6	1564.7	2036.8	2693.6	3184.0	3434.1	3224.2
82.5°	284.6	306.7	325.8	356.1	391.4	442.9	591.2	879.7	1180.4	1410.3	1155.1
85°	101.9	109.0	154.4	182.5	185.6	195.7	223.0	260.2	313.8	374.2	307.7
87.5°	38.4	42.4	49.4	81.7	80.7	73.7	89.8	93.9	70.6	64.6	79.7
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°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1553.6	1554.6	1554.6	1555.7	1556.7	1556.7	1558.6	1558.6
5°	1554.6	1554.6	1552.6	1553.6	1552.6	1552.6	1553.6	1553.6
7.5°	1552.6	1551.6	1549.5	1548.6	1546.5	1546.5	1546.5	1546.5
10°	1549.5	1548.6	1546.5	1545.5	1544.5	1544.5	1544.5	1544.5
12.5°	1557.7	1554.6	1552.6	1551.6	1551.6	1551.6	1551.6	1551.6
15°	1578.9	1571.8	1566.7	1566.7	1567.7	1569.8	1569.8	1571.8
17.5°	1605.1	1596.9	1591.9	1587.9	1589.9	1593.0	1595.0	1596.9
20°	1636.4	1632.3	1625.3	1621.3	1621.3	1625.3	1627.3	1628.3
22.5°	1679.7	1676.6	1673.7	1668.6	1668.6	1670.7	1674.7	1674.7
25°	1744.2	1742.3	1740.2	1736.2	1735.3	1735.3	1737.2	1739.3
27.5°	1824.9	1826.1	1824.0	1823.0	1820.0	1819.0	1822.0	1821.0
30°	1933.0	1938.1	1943.0	1939.0	1934.0	1930.9	1927.9	1923.9
32.5°	2079.2	2073.2	2069.2	2062.1	2052.9	2044.9	2038.9	2031.8
35°	2217.5	2207.3	2203.4	2209.4	2208.4	2203.4	2196.3	2190.2
37.5°	2386.9	2384.9	2386.9	2398.0	2396.0	2401.1	2386.9	2385.9
40°	2600.9	2602.7	2616.9	2630.1	2637.2	2644.3	2636.2	2628.0
42.5°	2849.0	2847.9	2852.9	2871.2	2883.3	2891.4	2874.1	2872.2
45°	3111.3	3104.3	3108.2	3123.3	3135.5	3144.5	3125.5	3125.5
47.5°	3399.8	3387.7	3374.7	3391.7	3398.7	3404.8	3389.8	3384.6
50°	3721.6	3696.4	3668.1	3675.2	3675.2	3673.2	3654.0	3653.0
52.5°	4090.9	4044.4	3993.0	3973.8	3962.8	3950.7	3917.4	3901.2
55°	4515.6	4446.0	4365.3	4315.8	4289.5	4256.3	4200.8	4185.7
57.5°	5012.0	4902.9	4763.8	4703.3	4644.7	4590.2	4528.7	4511.6
60°	5600.2	5439.6	5255.1	5143.1	5079.6	5027.1	4963.6	4960.5
62.5°	6255.8	6002.7	5793.8	5692.9	5646.4	5600.2	5539.6	5547.7
65°	6922.7	6658.3	6462.6	6380.9	6337.5	6299.3	6238.6	6247.8
67.5°	7580.4	7337.4	7122.4	7038.7	6990.3	6941.8	6887.3	6896.5
70°	8052.5	7750.9	7508.8	7323.3	7207.2	7076.0	6991.2	6970.0
72.5°	7917.4	7452.3	7068.0	6699.7	6483.8	6308.3	6189.2	6137.8
75°	6852.1	6216.5	5722.2	5270.1	5016.0	4809.2	4658.9	4565.0
77.5°	5088.5	4374.3	3790.2	3269.7	2858.0	2581.5	2386.9	2260.9
80°	2785.5	2118.6	1548.6	1088.6	800.0	664.8	587.1	549.9
82.5°	867.7	560.0	412.6	356.1	330.8	316.8	293.6	256.2
85°	276.4	242.2	224.9	214.9	204.9	178.6	123.1	112.0
87.5°	107.0	110.0	109.0	102.9	104.9	75.6	60.5	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)