

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: P192614

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192614
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-06-LED-U-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23896.1 lumens
Efficiency: N/A
Efficacy: 123.8 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): 193
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

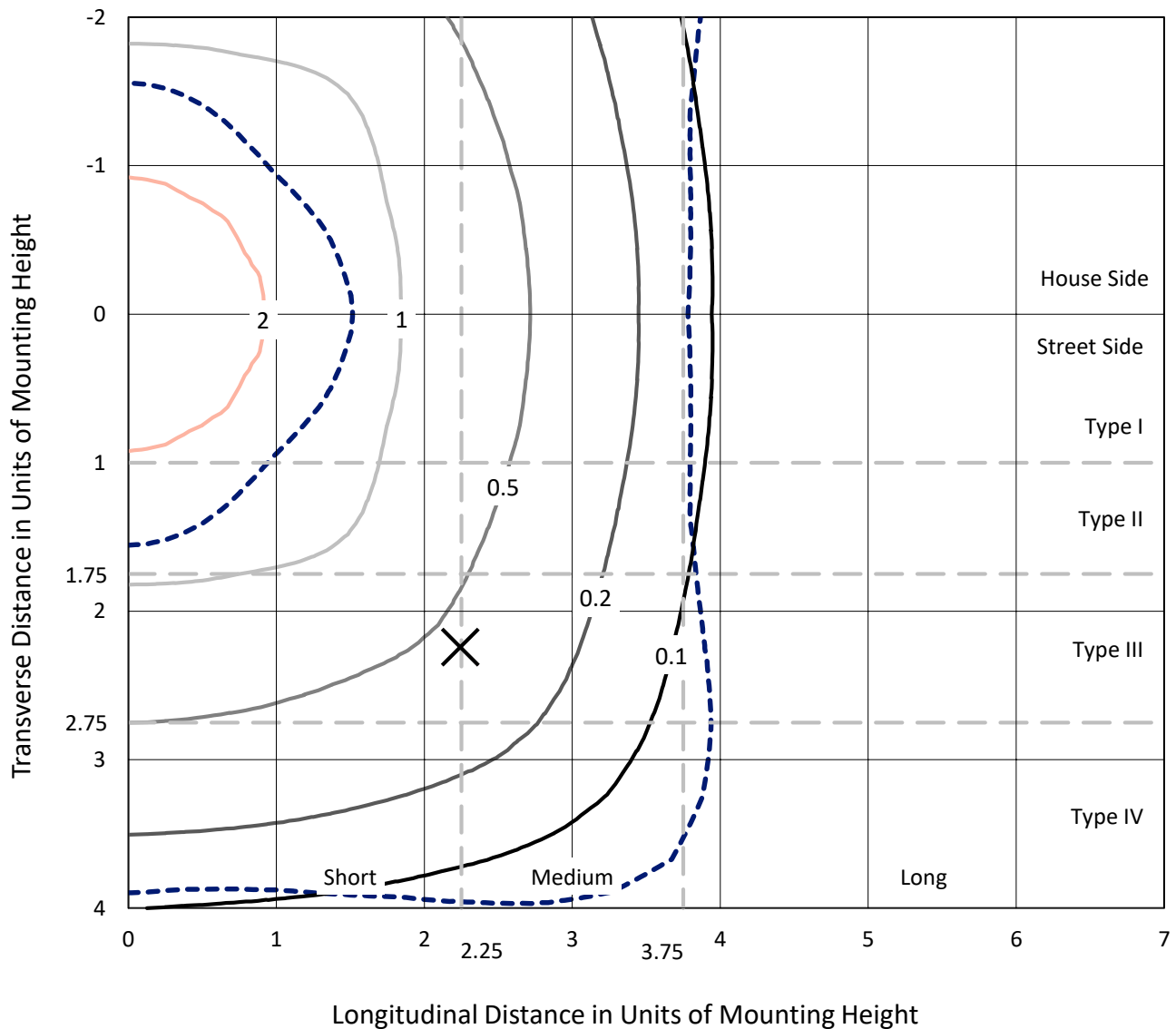


REPORT NUMBER: P192614

CATALOG NUMBER: GAN-AF-06-LED-U-5WQ-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

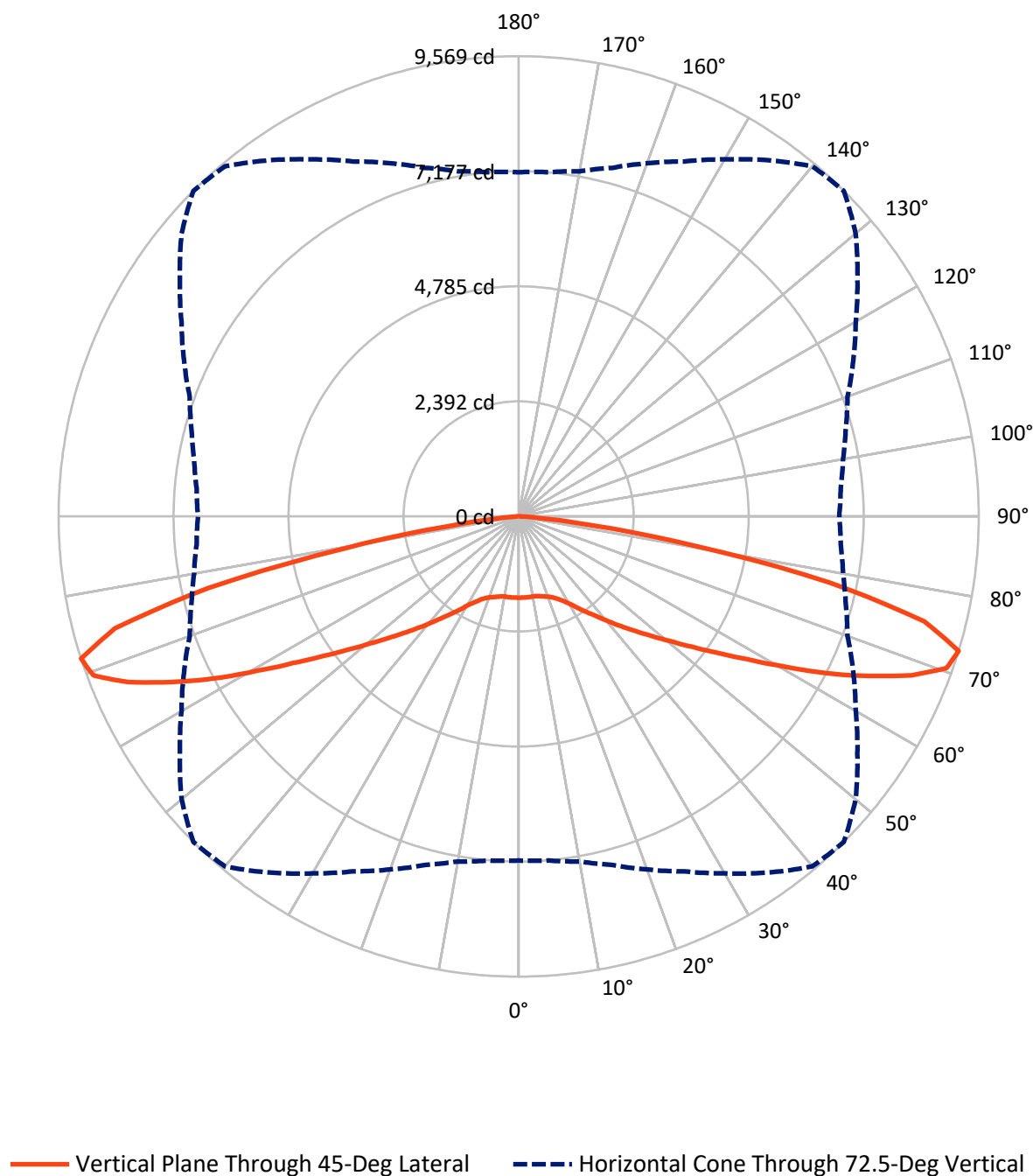


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P192614

CATALOG NUMBER: GAN-AF-06-LED-U-5WQ-7030-600

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11948.1	0.0	11948.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11948.1	0.0	11948.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23896.1	0.0	23896.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	0.7
10°-20°	490.8	2.1
20°-30°	896.8	3.8
30°-40°	1546.3	6.5
40°-50°	2643.3	11.1
50°-60°	4284.5	17.9
60°-70°	7107.8	29.7
70°-80°	6260.3	26.2
80°-90°	504.8	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°	23896.1	100.0
0°-180°	23896.1	100.0

Coefficient of Utilization



REPORT NUMBER: P192614

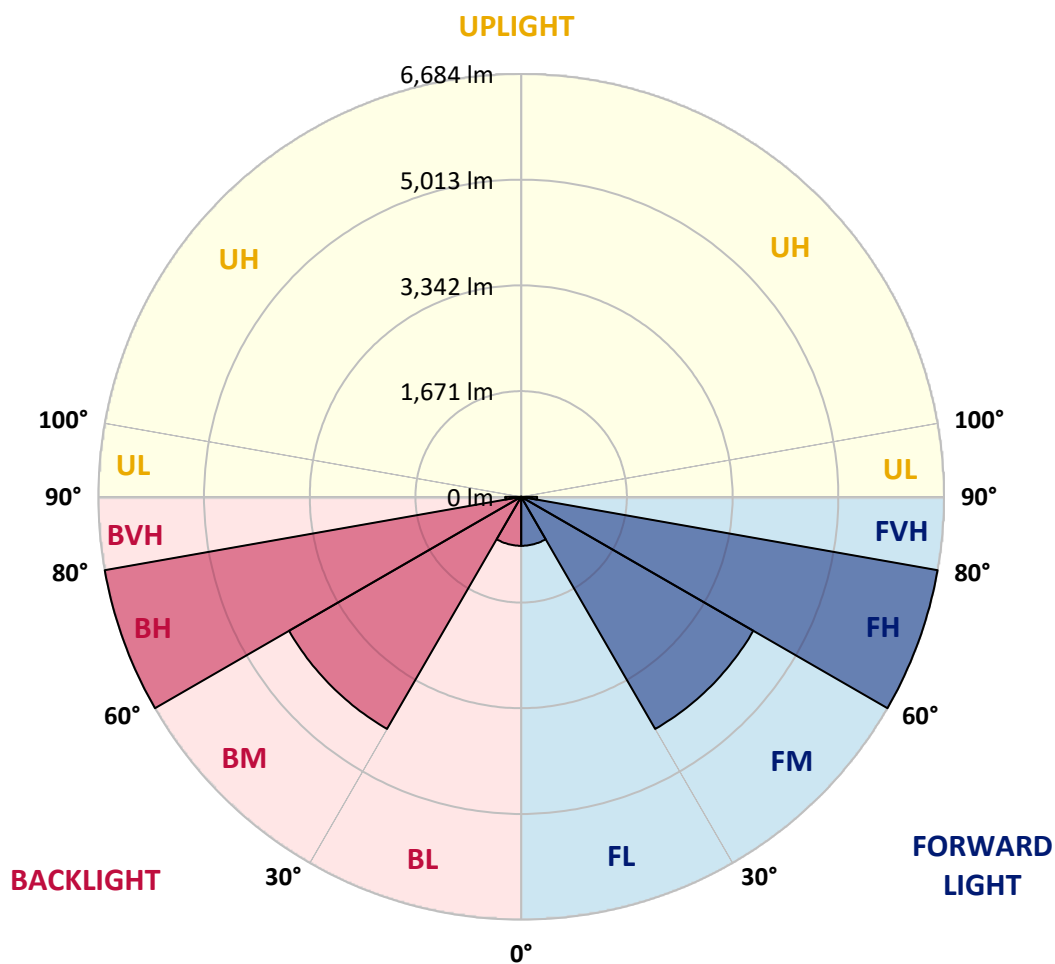
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.6	3.2			
FM	(30°-60°)	4237.0	17.7			
FH	(60°-80°)	6684.1	28.0			G3/7500
FVH	(80°-90°)	252.4	1.1			G3/500
BL	(0°-30°)	774.6	3.2	B2/1000		
BM	(30°-60°)	4237.0	17.7	B3/5000		
BH	(60°-80°)	6684.1	28.0	B5		G3/7500
BVH	(80°-90°)	252.4	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





REPORT NUMBER: P192614

CATALOG NUMBER: GAN-AF-06-LED-U-5WQ-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1692.2	1693.3	1694.4	1693.3	1693.3	1692.2	1691.2	1692.2	1691.2	1688.9	1690.0
5°	1697.7	1699.8	1699.8	1697.7	1698.8	1697.7	1695.4	1696.6	1694.4	1691.2	1691.2
7.5°	1704.2	1705.3	1705.3	1703.2	1704.2	1702.0	1699.8	1698.8	1696.6	1692.2	1688.9
10°	1714.2	1715.3	1714.2	1712.0	1712.0	1708.7	1703.2	1700.9	1696.6	1690.0	1686.8
12.5°	1725.1	1726.2	1725.1	1722.9	1721.8	1716.4	1712.0	1708.7	1705.3	1699.8	1694.4
15°	1740.4	1742.5	1740.4	1736.0	1732.8	1728.4	1726.2	1727.3	1728.4	1724.0	1718.5
17.5°	1768.9	1770.0	1766.7	1756.9	1752.5	1748.1	1748.1	1750.4	1753.6	1751.4	1746.0
20°	1821.6	1818.3	1810.5	1798.5	1793.1	1785.4	1784.3	1785.4	1785.4	1784.3	1780.0
22.5°	1887.4	1885.2	1875.2	1859.9	1852.3	1847.8	1841.2	1835.8	1834.7	1831.4	1827.1
25°	1966.2	1965.1	1953.0	1939.9	1934.4	1929.0	1923.5	1915.8	1909.2	1901.5	1897.2
27.5°	2067.0	2062.7	2045.2	2038.6	2030.9	2027.7	2019.8	2011.1	2005.7	1995.8	1990.3
30°	2177.7	2177.7	2163.5	2161.2	2161.2	2153.6	2144.9	2129.5	2119.6	2109.8	2106.5
32.5°	2288.4	2289.5	2275.4	2279.7	2283.0	2288.4	2290.6	2285.1	2278.6	2277.5	2271.0
35°	2448.5	2444.0	2429.8	2433.1	2432.0	2430.9	2430.9	2442.9	2445.1	2447.4	2434.2
37.5°	2646.8	2646.8	2632.6	2632.6	2626.0	2619.4	2610.6	2618.3	2630.4	2633.7	2625.0
40°	2873.7	2881.3	2863.8	2862.7	2864.9	2844.1	2834.3	2846.3	2854.0	2867.1	2857.2
42.5°	3141.1	3135.6	3118.2	3116.0	3103.8	3097.3	3088.5	3098.4	3110.4	3119.3	3122.5
45°	3397.6	3393.1	3373.5	3373.5	3361.4	3355.9	3360.3	3376.7	3382.2	3394.2	3406.3
47.5°	3650.8	3645.3	3632.1	3637.6	3638.7	3648.6	3662.8	3678.1	3693.5	3709.9	3715.5
50°	3909.4	3910.5	3896.3	3909.4	3925.9	3953.2	3991.6	4016.8	4048.6	4069.5	4076.0
52.5°	4145.1	4149.4	4164.8	4195.4	4228.4	4282.1	4347.8	4409.1	4461.8	4496.9	4494.7
55°	4427.8	4434.4	4471.7	4524.3	4578.0	4659.1	4756.6	4865.1	4952.8	5003.2	4971.4
57.5°	4789.5	4803.7	4845.4	4916.6	4996.7	5101.9	5235.6	5398.8	5534.7	5602.7	5551.3
60°	5286.0	5294.7	5345.2	5424.0	5520.6	5651.0	5829.6	6048.8	6240.6	6330.5	6271.3
62.5°	5940.3	5956.7	5997.2	6077.3	6175.9	6323.9	6542.0	6816.0	7054.9	7179.9	7046.1
65°	6721.7	6774.3	6808.3	6889.5	6981.4	7138.2	7366.2	7659.9	7916.4	7998.6	7844.0
67.5°	7495.5	7541.5	7600.7	7693.9	7787.0	7963.5	8175.0	8460.0	8741.7	8816.1	8576.2
70°	7834.2	7860.4	7952.6	8079.6	8258.4	8466.5	8710.9	9031.1	9379.5	9440.9	9136.3
72.5°	7155.7	7182.0	7285.1	7500.9	7812.2	8143.2	8569.5	9039.8	9500.1	9569.2	9149.4
75°	5412.0	5369.3	5521.6	5807.6	6227.4	6688.9	7285.1	7959.1	8624.4	8710.9	8210.1
77.5°	2796.9	2791.5	2906.7	3261.7	3762.6	4287.6	4944.0	5705.7	6356.8	6619.8	6212.1
80°	788.0	796.8	851.5	1028.0	1320.7	1699.8	2212.8	2926.3	3458.9	3730.7	3502.8
82.5°	309.1	333.1	354.0	386.9	425.2	481.2	642.2	955.7	1282.2	1532.3	1255.0
85°	110.7	118.3	167.7	198.5	201.7	212.6	242.2	282.8	340.9	406.7	334.3
87.5°	41.6	46.0	53.7	88.8	87.6	80.0	97.6	101.9	76.7	70.2	86.6
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: P192614

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1687.8	1688.9	1688.9	1690.0	1691.2	1691.2	1693.3	1693.3
5°	1688.9	1688.9	1686.8	1687.8	1686.8	1686.8	1687.8	1687.8
7.5°	1686.8	1685.7	1683.4	1682.4	1680.2	1680.2	1680.2	1680.2
10°	1683.4	1682.4	1680.2	1679.1	1678.0	1678.0	1678.0	1678.0
12.5°	1692.2	1688.9	1686.8	1685.7	1685.7	1685.7	1685.7	1685.7
15°	1715.3	1707.6	1702.0	1702.0	1703.2	1705.3	1705.3	1707.6
17.5°	1743.8	1734.9	1729.5	1725.1	1727.3	1730.5	1732.8	1734.9
20°	1777.6	1773.3	1765.6	1761.3	1761.3	1765.6	1767.9	1768.9
22.5°	1824.8	1821.6	1818.3	1812.7	1812.7	1815.1	1819.3	1819.3
25°	1895.0	1892.8	1890.6	1886.3	1885.2	1885.2	1887.4	1889.5
27.5°	1982.6	1983.7	1981.5	1980.5	1977.1	1976.1	1979.3	1978.2
30°	2100.0	2105.4	2110.9	2106.5	2101.0	2097.8	2094.4	2090.0
32.5°	2258.8	2252.3	2247.9	2240.3	2230.3	2221.6	2215.0	2207.4
35°	2408.9	2398.0	2393.7	2400.2	2399.2	2393.7	2386.0	2379.4
37.5°	2593.2	2591.0	2593.2	2605.2	2603.0	2608.4	2593.2	2592.0
40°	2825.5	2827.6	2843.0	2857.2	2864.9	2872.7	2863.8	2855.1
42.5°	3095.1	3094.0	3099.4	3119.3	3132.4	3141.1	3122.5	3120.3
45°	3380.1	3372.4	3376.7	3393.1	3406.3	3416.2	3395.3	3395.3
47.5°	3693.5	3680.4	3666.0	3684.8	3692.4	3699.0	3682.6	3677.0
50°	4043.1	4015.8	3985.0	3992.7	3992.7	3990.4	3969.7	3968.7
52.5°	4444.2	4393.9	4337.9	4317.2	4305.1	4291.9	4255.7	4238.1
55°	4905.6	4830.1	4742.4	4688.7	4660.1	4624.0	4563.8	4547.3
57.5°	5444.9	5326.5	5175.3	5109.5	5045.9	4986.8	4920.0	4901.3
60°	6083.9	5909.7	5709.1	5587.4	5518.3	5461.4	5392.3	5389.0
62.5°	6796.3	6521.1	6294.3	6184.7	6134.3	6083.9	6018.1	6026.8
65°	7520.8	7233.5	7020.9	6932.2	6885.1	6843.4	6777.7	6787.5
67.5°	8235.3	7971.1	7737.7	7646.7	7594.2	7541.5	7482.4	7492.2
70°	8748.2	8420.5	8157.6	7955.8	7829.7	7687.3	7595.2	7572.2
72.5°	8601.3	8096.1	7678.5	7278.6	7044.0	6853.3	6724.0	6668.0
75°	7444.0	6753.6	6216.6	5725.5	5449.3	5224.6	5061.3	4959.4
77.5°	5528.2	4752.2	4117.7	3552.1	3104.9	2804.6	2593.2	2456.1
80°	3026.1	2301.5	1682.4	1182.6	869.1	722.3	637.8	597.3
82.5°	942.6	608.2	448.3	386.9	359.5	344.1	318.9	278.4
85°	300.4	263.0	244.4	233.5	222.5	194.1	133.8	121.6
87.5°	116.2	119.4	118.3	111.8	113.9	82.2	65.8	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)