

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: P300613

Luminaire Tested: **GAA-AF-04-LED-U-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-04-LED-U-RW-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17169.3 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

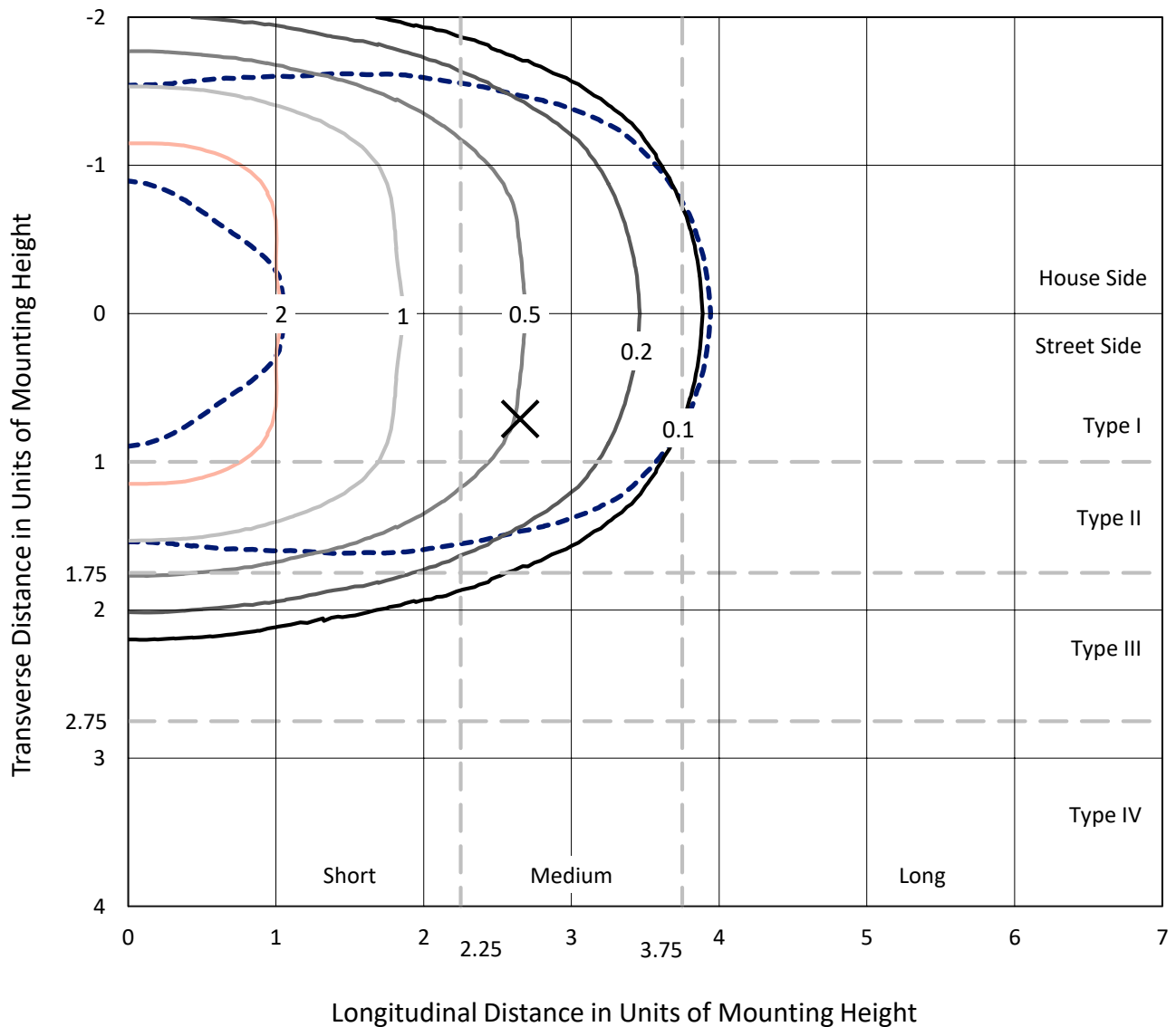
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

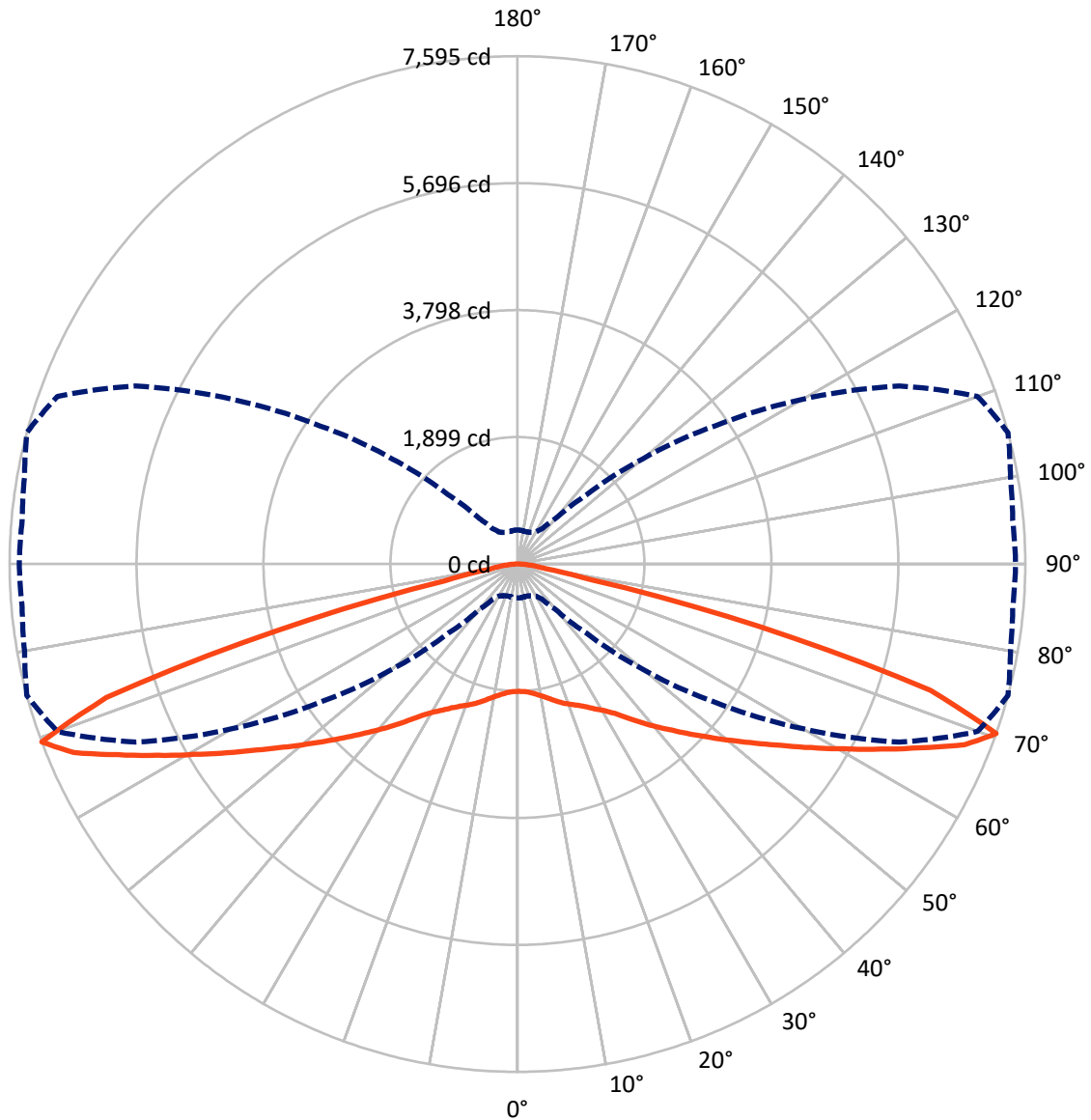
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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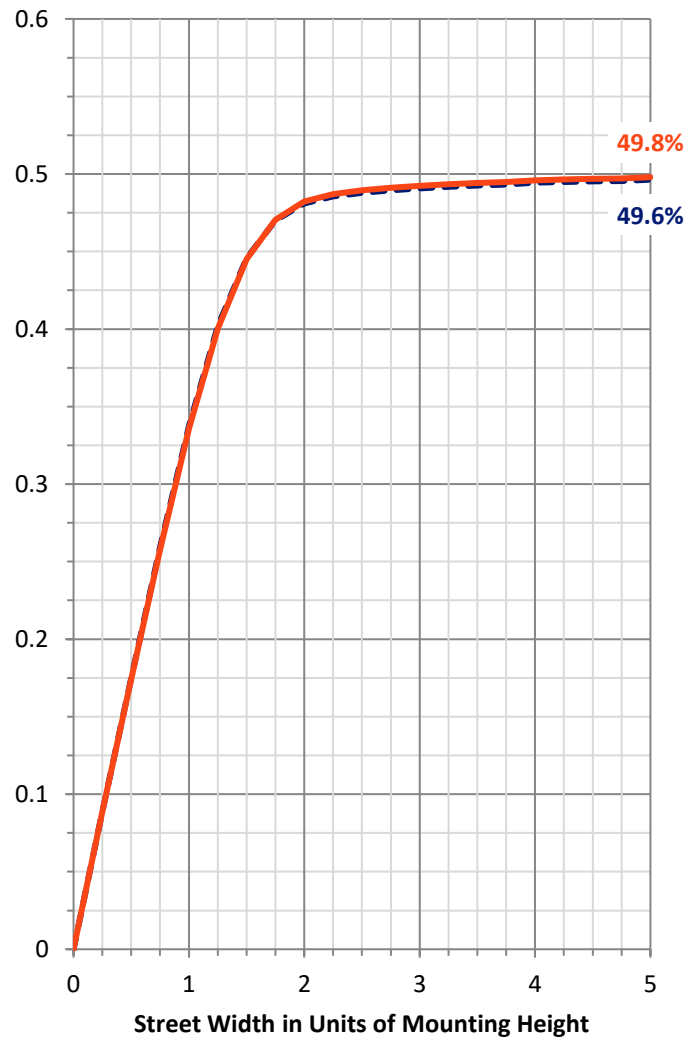
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8584.7	0.0	8584.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8584.7	0.0	8584.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	17169.3	0.0	17169.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	1.1
10°-20°	567.5	3.3
20°-30°	1068.2	6.2
30°-40°	1891.5	11.0
40°-50°	3163.3	18.4
50°-60°	4408.0	25.7
60°-70°	4087.7	23.8
70°-80°	1629.1	9.5
80°-90°	171.2	1.0
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°	17169.3	100.0
0°-180°	17169.3	100.0



--- HS — SS

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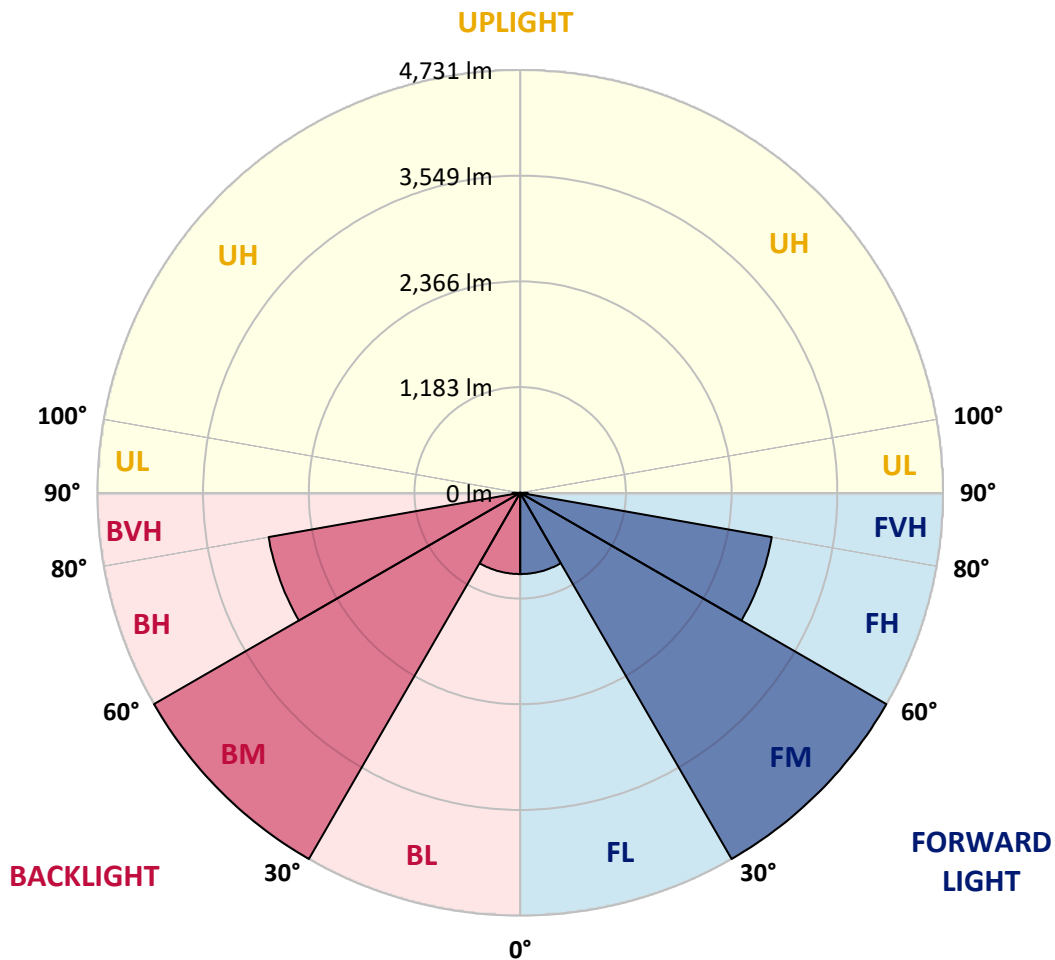
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	909.2	5.3			
FM	(30°-60°)	4731.4	27.6			
FH	(60°-80°)	2858.4	16.6			G2/5000
FVH	(80°-90°)	85.6	0.5			G1/100
BL	(0°-30°)	909.2	5.3	B2/1000		
BM	(30°-60°)	4731.4	27.6	B3/5000		
BH	(60°-80°)	2858.4	16.6	B4/5000		G2/5000
BVH	(80°-90°)	85.6	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1901.2	1899.6	1901.2	1900.4	1902.0	1902.0	1903.7	1906.9	1906.9	1909.3	1908.5
5°	1882.6	1881.8	1884.2	1886.6	1889.1	1893.9	1898.8	1906.1	1911.8	1915.8	1919.9
7.5°	1846.1	1846.1	1849.3	1855.0	1860.7	1871.2	1882.6	1897.2	1911.8	1924.0	1934.5
10°	1816.0	1817.7	1821.7	1831.4	1841.2	1857.4	1872.8	1893.9	1914.2	1934.5	1950.7
12.5°	1798.2	1800.6	1807.9	1822.5	1838.7	1860.7	1884.2	1911.0	1933.7	1958.0	1974.3
15°	1803.9	1805.5	1816.0	1833.9	1855.0	1882.6	1914.2	1945.9	1972.6	1998.6	2020.5
17.5°	1835.5	1837.9	1850.1	1870.4	1892.3	1924.8	1958.8	1994.5	2027.8	2057.0	2083.8
20°	1892.3	1894.7	1910.2	1932.1	1958.0	1991.3	2025.4	2062.7	2100.0	2130.9	2160.9
22.5°	1972.6	1976.7	1991.3	2013.2	2042.4	2078.1	2118.7	2158.5	2194.2	2222.6	2249.3
25°	2078.1	2087.1	2100.8	2125.2	2156.0	2188.5	2232.3	2272.9	2307.0	2333.7	2353.2
27.5°	2227.4	2239.6	2250.2	2273.7	2303.7	2334.5	2378.4	2414.1	2446.5	2472.5	2487.1
30°	2425.4	2437.6	2448.1	2470.9	2498.5	2527.7	2569.1	2600.7	2621.0	2641.3	2640.5
32.5°	2665.6	2678.6	2682.7	2707.0	2735.4	2767.0	2804.4	2822.2	2838.5	2840.9	2826.3
35°	2934.2	2940.7	2956.9	2989.4	3021.8	3047.8	3083.5	3092.4	3092.4	3080.3	3047.8
37.5°	3228.8	3232.8	3255.5	3292.1	3325.3	3352.1	3376.4	3394.3	3385.4	3359.4	3305.0
40°	3551.7	3559.0	3591.5	3623.9	3661.3	3686.4	3712.4	3715.6	3706.7	3668.6	3594.7
42.5°	3860.1	3866.6	3899.0	3950.1	3998.8	4033.7	4058.1	4062.9	4034.5	3999.6	3907.9
45°	4125.4	4142.5	4184.7	4244.7	4315.3	4364.8	4398.1	4411.9	4386.7	4341.3	4235.0
47.5°	4335.6	4352.6	4412.7	4484.1	4571.7	4652.1	4707.2	4736.4	4729.9	4695.9	4579.8
50°	4489.8	4506.0	4570.9	4658.5	4760.8	4860.6	4954.7	5024.5	5048.9	5033.4	4927.1
52.5°	4507.6	4534.4	4610.7	4728.3	4861.4	4997.7	5131.6	5250.1	5330.4	5342.6	5263.9
55°	4258.5	4285.3	4390.8	4565.2	4763.2	4985.6	5199.8	5399.4	5557.6	5638.8	5597.4
57.5°	3671.0	3718.9	3830.1	4034.5	4325.8	4658.5	5000.2	5354.8	5676.9	5891.9	5933.3
60°	2813.3	2870.1	2982.1	3199.6	3524.1	3920.9	4377.0	4901.2	5470.0	5953.6	6242.5
62.5°	1804.7	1858.2	1975.9	2165.0	2429.5	2859.6	3348.9	3971.2	4735.6	5499.2	6187.3
65°	927.5	956.7	1018.4	1132.8	1338.9	1660.2	2099.2	2720.0	3593.9	4536.0	5530.9
67.5°	587.5	593.2	607.0	623.2	675.9	787.1	991.6	1378.7	2097.6	3080.3	4244.7
70°	508.0	508.0	501.5	499.0	505.5	521.0	552.6	642.7	885.3	1462.2	2448.1
72.5°	465.0	460.1	448.7	439.8	438.2	438.2	444.7	458.5	497.4	595.6	958.3
75°	428.4	414.7	399.2	388.7	384.6	380.6	379.8	382.2	390.3	405.7	457.7
77.5°	383.8	366.0	348.1	337.6	332.7	327.0	322.1	316.5	312.4	317.3	340.0
80°	330.3	310.0	296.2	289.7	284.8	276.7	266.2	256.4	247.5	245.9	259.7
82.5°	266.2	242.6	243.4	245.9	236.9	225.6	214.2	203.7	188.3	180.1	188.3
85°	215.0	202.9	197.2	212.6	199.6	182.6	164.7	146.1	121.7	102.2	111.2
87.5°	83.6	83.6	125.0	192.3	172.8	141.2	120.9	103.1	64.1	49.5	50.3
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°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1907.7	1909.3	1908.5	1907.7	1907.7	1906.9	1907.7	1907.7
5°	1922.3	1926.4	1926.4	1928.0	1928.0	1928.8	1929.6	1928.8
7.5°	1944.2	1951.5	1956.4	1962.1	1962.9	1963.7	1965.3	1963.7
10°	1966.1	1980.8	1991.3	2001.9	2006.7	2008.3	2010.0	2010.0
12.5°	1993.7	2014.0	2032.7	2051.3	2060.3	2065.1	2065.1	2068.4
15°	2039.2	2059.5	2081.4	2106.5	2121.9	2130.1	2132.5	2132.5
17.5°	2103.3	2121.1	2139.8	2164.1	2183.6	2194.2	2196.6	2195.8
20°	2177.9	2195.0	2205.5	2220.9	2238.0	2250.2	2253.4	2253.4
22.5°	2263.1	2272.9	2274.5	2279.4	2293.2	2309.4	2316.7	2318.3
25°	2357.3	2359.7	2353.2	2353.2	2362.1	2377.6	2384.9	2385.7
27.5°	2479.0	2466.8	2450.6	2444.9	2450.6	2468.4	2477.4	2480.6
30°	2630.7	2601.5	2564.2	2543.9	2540.7	2564.2	2580.4	2582.8
32.5°	2804.4	2762.2	2712.7	2671.3	2660.7	2675.4	2694.8	2694.0
35°	3010.5	2960.2	2900.1	2847.4	2823.0	2837.6	2865.2	2868.5
37.5°	3248.2	3182.5	3113.5	3047.0	3008.9	3012.9	3042.1	3051.9
40°	3513.6	3428.4	3341.6	3252.3	3197.9	3187.4	3223.1	3228.8
42.5°	3797.6	3688.0	3578.5	3468.1	3398.4	3382.1	3423.5	3421.1
45°	4100.3	3960.7	3832.5	3710.8	3628.0	3603.7	3637.7	3637.7
47.5°	4425.7	4253.6	4101.1	3963.1	3873.1	3838.2	3870.6	3873.1
50°	4770.5	4587.9	4408.6	4255.3	4147.3	4102.7	4144.9	4151.4
52.5°	5113.8	4936.1	4755.1	4579.8	4449.2	4394.8	4443.5	4464.6
55°	5461.9	5287.4	5114.6	4943.4	4788.4	4724.3	4776.2	4803.0
57.5°	5829.5	5668.0	5503.3	5330.4	5181.1	5081.3	5136.5	5172.2
60°	6260.3	6122.4	5951.2	5760.5	5609.6	5508.1	5539.8	5571.4
62.5°	6601.2	6654.7	6509.5	6288.7	6094.8	5965.0	5995.8	6029.1
65°	6436.4	6985.8	7114.8	6891.7	6623.1	6421.0	6408.0	6425.1
67.5°	5379.9	6447.0	7225.2	7437.8	7213.0	6932.2	6880.3	6905.5
70°	3598.8	4927.9	6300.9	7323.3	7595.2	7486.5	7435.3	7450.7
72.5°	1728.4	2870.1	4274.7	5633.9	6461.6	6841.3	6963.1	7022.3
75°	632.1	1139.3	2060.3	3104.6	3748.1	4338.8	4724.3	4881.7
77.5°	381.4	460.1	658.1	990.8	1122.2	1256.1	1204.2	1230.2
80°	282.4	318.9	361.1	405.7	420.3	420.3	404.1	391.1
82.5°	198.0	221.5	241.8	266.2	272.6	260.5	214.2	170.4
85°	127.4	137.9	146.9	162.3	158.2	150.9	101.4	90.1
87.5°	58.4	66.5	69.8	77.1	73.8	70.6	50.3	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)