

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: P190841

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15492.6 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 124
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

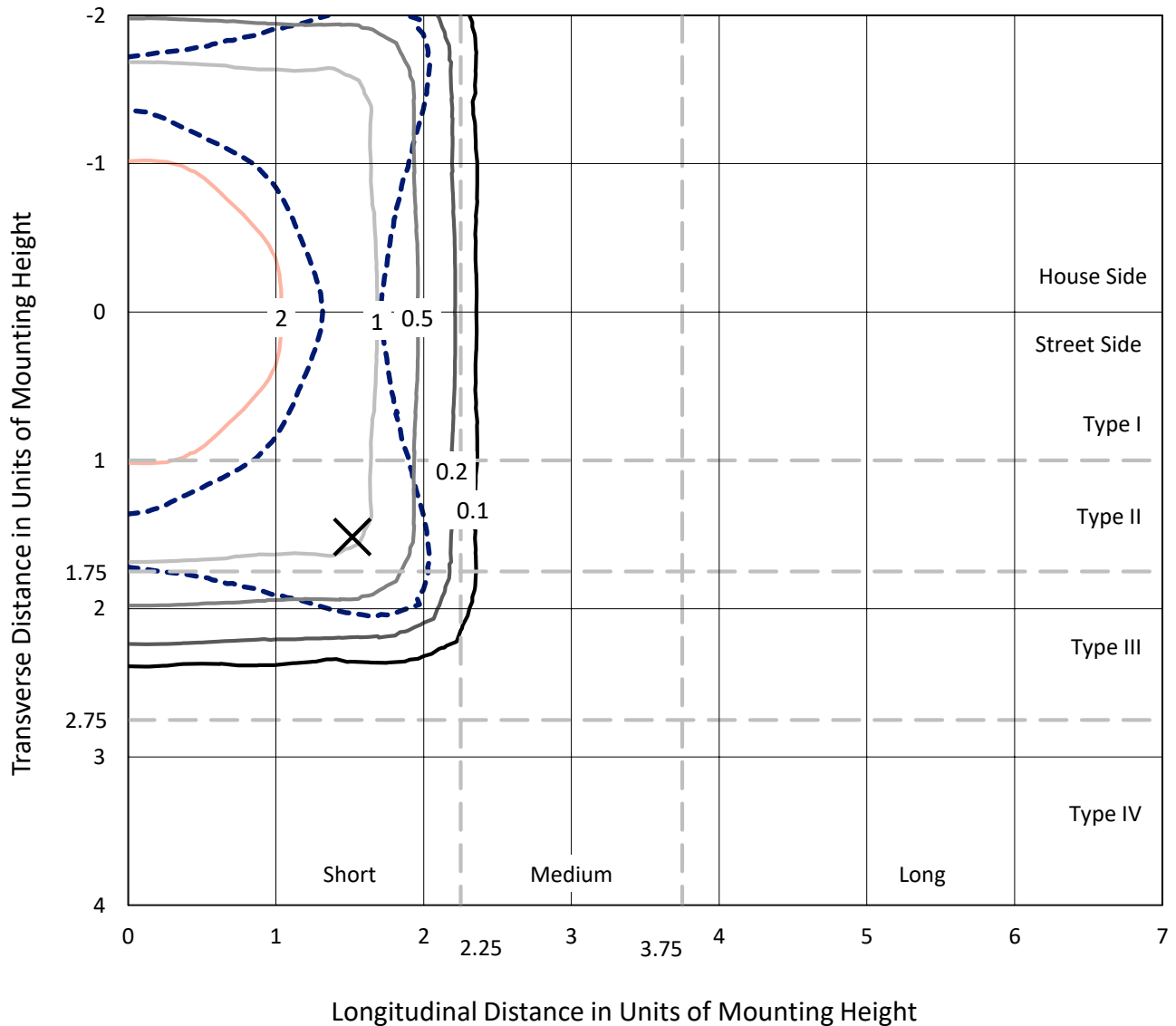


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Iso-Footcandle Lines of Horizontal Illumination

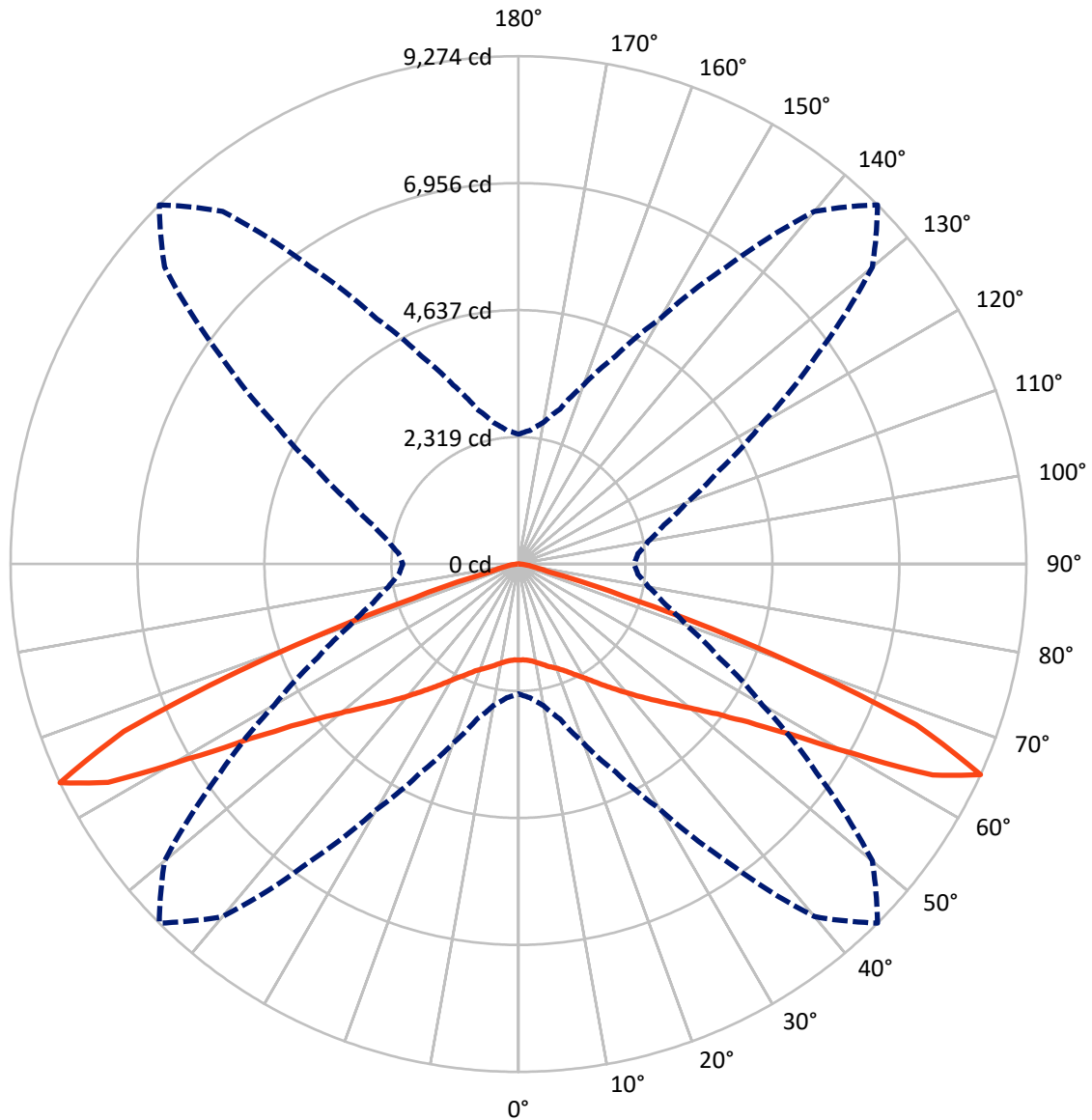
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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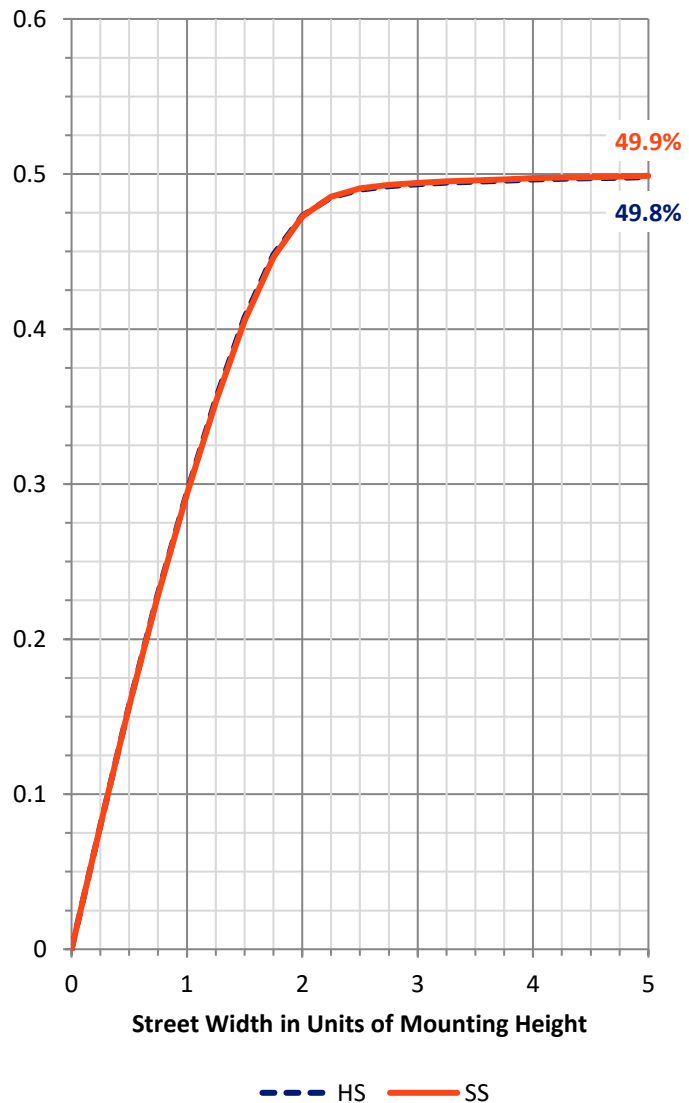
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7746.3	0.0	7746.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7746.3	0.0	7746.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	15492.6	0.0	15492.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.1
10°-20°	548.0	3.5
20°-30°	1024.6	6.6
30°-40°	1732.9	11.2
40°-50°	2833.5	18.3
50°-60°	4505.7	29.1
60°-70°	4072.9	26.3
70°-80°	515.4	3.3
80°-90°	88.7	0.6
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°	15492.6	100.0
0°-180°	15492.6	100.0

Coefficient of Utilization



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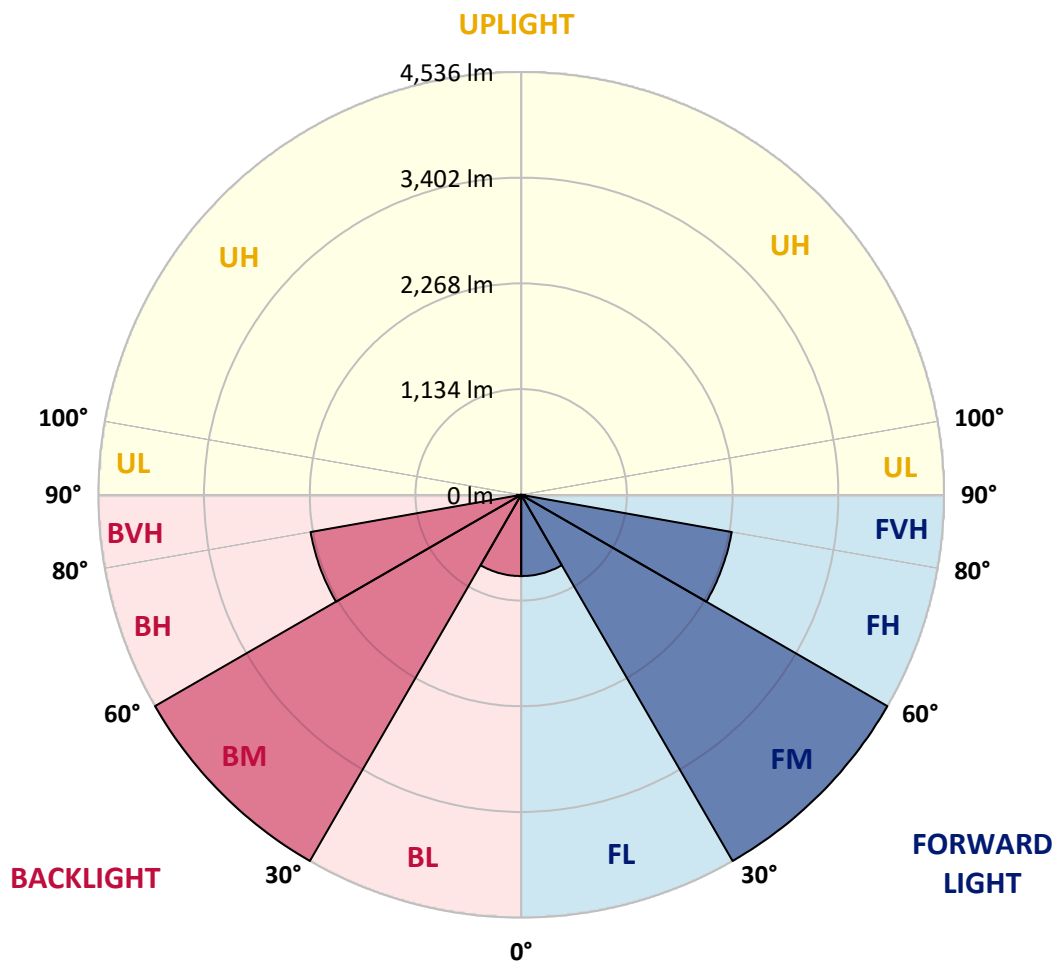
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.7	5.6			
FM	(30°-60°)	4536.1	29.3			
FH	(60°-80°)	2294.2	14.8			G2/5000
FVH	(80°-90°)	44.3	0.3			G1/100
BL	(0°-30°)	871.7	5.6	B2/1000		
BM	(30°-60°)	4536.1	29.3	B3/5000		
BH	(60°-80°)	2294.2	14.8	B3/2500		G2/5000
BVH	(80°-90°)	44.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0
2.5°	1754.5	1755.9	1757.3	1755.9	1757.3	1755.2	1753.7	1755.9	1753.7	1751.5	1753.0
5°	1769.7	1770.4	1770.4	1768.3	1770.4	1769.0	1766.7	1769.7	1767.6	1765.3	1766.7
7.5°	1795.1	1797.9	1795.8	1793.6	1795.1	1793.6	1792.2	1792.9	1792.2	1790.0	1790.7
10°	1829.1	1831.4	1830.0	1829.1	1830.7	1830.0	1828.4	1827.7	1828.4	1826.3	1826.3
12.5°	1870.6	1869.9	1869.1	1869.9	1872.0	1872.0	1871.3	1872.0	1873.4	1874.1	1872.7
15°	1911.2	1912.6	1912.6	1912.6	1917.0	1920.6	1922.7	1924.3	1927.1	1927.9	1925.0
17.5°	1961.9	1961.9	1961.2	1961.9	1966.3	1972.1	1974.3	1977.2	1980.1	1982.3	1978.7
20°	2018.6	2020.0	2020.0	2021.5	2027.3	2033.8	2033.8	2035.3	2033.8	2035.3	2033.1
22.5°	2087.5	2091.8	2091.8	2092.5	2098.4	2106.4	2104.2	2106.4	2102.7	2105.6	2102.7
25°	2177.5	2184.0	2182.6	2182.6	2186.9	2192.0	2192.7	2197.1	2196.3	2200.0	2197.8
27.5°	2279.0	2289.2	2292.1	2291.4	2294.3	2299.4	2300.8	2305.9	2303.0	2305.9	2304.4
30°	2401.0	2405.3	2411.1	2413.2	2416.9	2421.9	2421.9	2422.7	2419.1	2423.5	2425.6
32.5°	2527.2	2535.2	2541.0	2554.0	2560.5	2564.2	2563.5	2564.9	2561.3	2567.1	2571.5
35°	2694.0	2699.9	2709.3	2719.5	2728.2	2727.5	2725.2	2726.0	2726.0	2731.1	2735.5
37.5°	2895.1	2896.5	2908.9	2923.4	2927.7	2923.4	2910.3	2907.4	2900.9	2907.4	2914.7
40°	3107.6	3112.7	3137.4	3146.8	3149.1	3141.1	3122.1	3111.3	3096.8	3104.8	3114.9
42.5°	3330.4	3340.5	3363.1	3379.7	3387.0	3381.9	3355.8	3339.1	3320.2	3324.6	3334.7
45°	3577.1	3589.4	3621.3	3637.3	3651.1	3643.1	3617.8	3592.3	3562.6	3564.8	3580.7
47.5°	3852.8	3865.1	3906.5	3933.3	3940.6	3939.2	3910.8	3876.1	3835.5	3833.9	3847.7
50°	4161.9	4174.3	4225.8	4267.1	4288.2	4286.0	4252.6	4203.3	4153.9	4154.6	4172.1
52.5°	4463.7	4479.0	4532.7	4603.8	4645.1	4674.9	4654.5	4608.2	4547.9	4549.4	4565.3
55°	4746.7	4772.2	4833.7	4930.3	5007.2	5090.6	5114.5	5113.1	5076.9	5087.0	5103.0
57.5°	4883.9	4921.6	5016.7	5169.0	5325.8	5495.5	5639.2	5746.5	5792.3	5861.2	5845.2
60°	4624.1	4684.3	4824.3	5048.6	5358.4	5712.5	6092.0	6462.7	6779.1	7017.7	6880.7
62.5°	3786.0	3864.4	4034.2	4321.6	4790.3	5356.9	6083.3	6959.7	7914.6	8490.7	8079.3
65°	2369.1	2450.3	2622.9	2930.7	3479.2	4183.7	5169.0	6621.7	8405.8	9274.4	8437.0
67.5°	923.6	967.9	1061.5	1258.1	1670.3	2297.1	3286.1	4934.6	7068.6	7829.7	6937.2
70°	462.9	467.3	484.7	521.0	609.5	791.6	1204.4	2287.7	4053.9	4896.1	3908.0
72.5°	334.5	335.2	343.9	359.9	388.2	428.8	507.2	700.2	1318.4	2014.9	1235.6
75°	256.1	259.0	264.1	272.8	288.1	308.4	336.7	403.5	499.9	579.7	487.5
77.5°	197.3	203.2	206.8	214.8	224.2	237.9	246.0	271.4	315.6	332.4	327.2
80°	150.2	155.3	163.3	169.8	176.4	182.8	179.9	191.6	214.8	228.5	221.3
82.5°	95.7	101.6	124.8	130.6	133.5	137.9	132.8	133.5	143.6	152.4	143.6
85°	61.7	65.3	79.1	86.3	87.1	90.0	87.8	82.8	82.8	75.5	84.9
87.5°	28.3	29.1	35.6	42.0	43.6	39.2	38.5	37.0	29.8	28.3	30.5
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°	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0	1753.0
2.5°	1752.3	1753.7	1754.5	1756.6	1757.3	1757.3	1758.0	1759.5
5°	1766.0	1768.3	1769.0	1771.9	1772.6	1771.9	1773.3	1774.0
7.5°	1790.7	1794.4	1795.8	1798.8	1796.5	1799.5	1800.2	1800.2
10°	1827.0	1830.7	1831.4	1834.3	1832.8	1834.3	1834.3	1832.8
12.5°	1874.9	1875.6	1873.4	1875.6	1872.7	1874.1	1872.0	1870.6
15°	1927.9	1925.7	1920.6	1920.6	1916.3	1917.0	1916.3	1915.5
17.5°	1979.4	1975.0	1971.4	1969.9	1966.3	1965.6	1963.5	1963.5
20°	2036.0	2033.8	2031.6	2028.7	2025.1	2021.5	2020.7	2022.2
22.5°	2104.2	2103.5	2103.5	2102.0	2096.9	2093.3	2091.1	2091.1
25°	2195.6	2189.1	2189.1	2188.3	2186.1	2184.0	2179.6	2181.9
27.5°	2298.7	2295.0	2297.9	2297.1	2295.0	2295.0	2292.1	2292.1
30°	2425.6	2424.2	2428.5	2424.9	2417.6	2416.9	2414.0	2410.4
32.5°	2572.2	2570.7	2577.2	2572.9	2561.3	2554.7	2549.0	2546.0
35°	2735.5	2736.2	2744.2	2741.2	2728.2	2723.8	2713.7	2712.3
37.5°	2913.9	2925.5	2939.3	2942.2	2931.4	2928.4	2917.6	2911.7
40°	3123.6	3138.8	3159.9	3165.0	3153.3	3151.2	3136.0	3128.0
42.5°	3347.1	3373.2	3399.4	3403.7	3392.1	3380.4	3365.9	3360.2
45°	3596.7	3627.9	3662.0	3670.7	3653.3	3639.5	3620.6	3620.6
47.5°	3876.8	3916.0	3954.4	3978.4	3962.4	3947.9	3925.4	3910.8
50°	4207.6	4261.3	4311.4	4336.1	4310.6	4283.1	4243.9	4230.8
52.5°	4622.6	4680.7	4724.2	4711.2	4672.0	4633.6	4590.7	4573.3
55°	5152.3	5171.9	5171.9	5122.5	5044.2	4979.6	4912.1	4889.7
57.5°	5814.8	5739.4	5623.3	5476.0	5290.9	5129.8	5020.9	4969.5
60°	6593.3	6230.5	5820.6	5417.9	5087.0	4814.2	4652.4	4578.4
62.5°	7112.1	6163.1	5341.7	4695.2	4219.3	3890.6	3667.1	3580.0
65°	6647.0	5140.0	4040.0	3266.6	2747.7	2413.2	2192.0	2110.7
67.5°	4868.6	3220.9	2151.4	1541.9	1129.7	901.1	810.5	772.7
70°	2185.4	1134.0	695.1	542.8	468.0	429.5	412.9	407.0
72.5°	658.8	476.7	402.0	362.7	333.1	314.1	300.3	298.9
75°	397.6	330.8	293.9	270.7	251.7	236.5	229.2	227.1
77.5°	277.9	243.1	225.7	209.0	194.5	182.8	176.4	171.2
80°	195.2	178.5	170.5	161.1	151.6	140.8	131.3	126.9
82.5°	130.6	126.9	126.9	121.2	113.2	103.0	84.2	79.8
85°	84.2	83.5	84.9	82.8	76.9	66.0	54.4	51.6
87.5°	39.2	39.9	44.3	43.6	42.0	34.8	27.6	26.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)