

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: P268571

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268571
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 26322.3 lumens
Efficiency: N/A
Efficacy: 105.7 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): 249
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

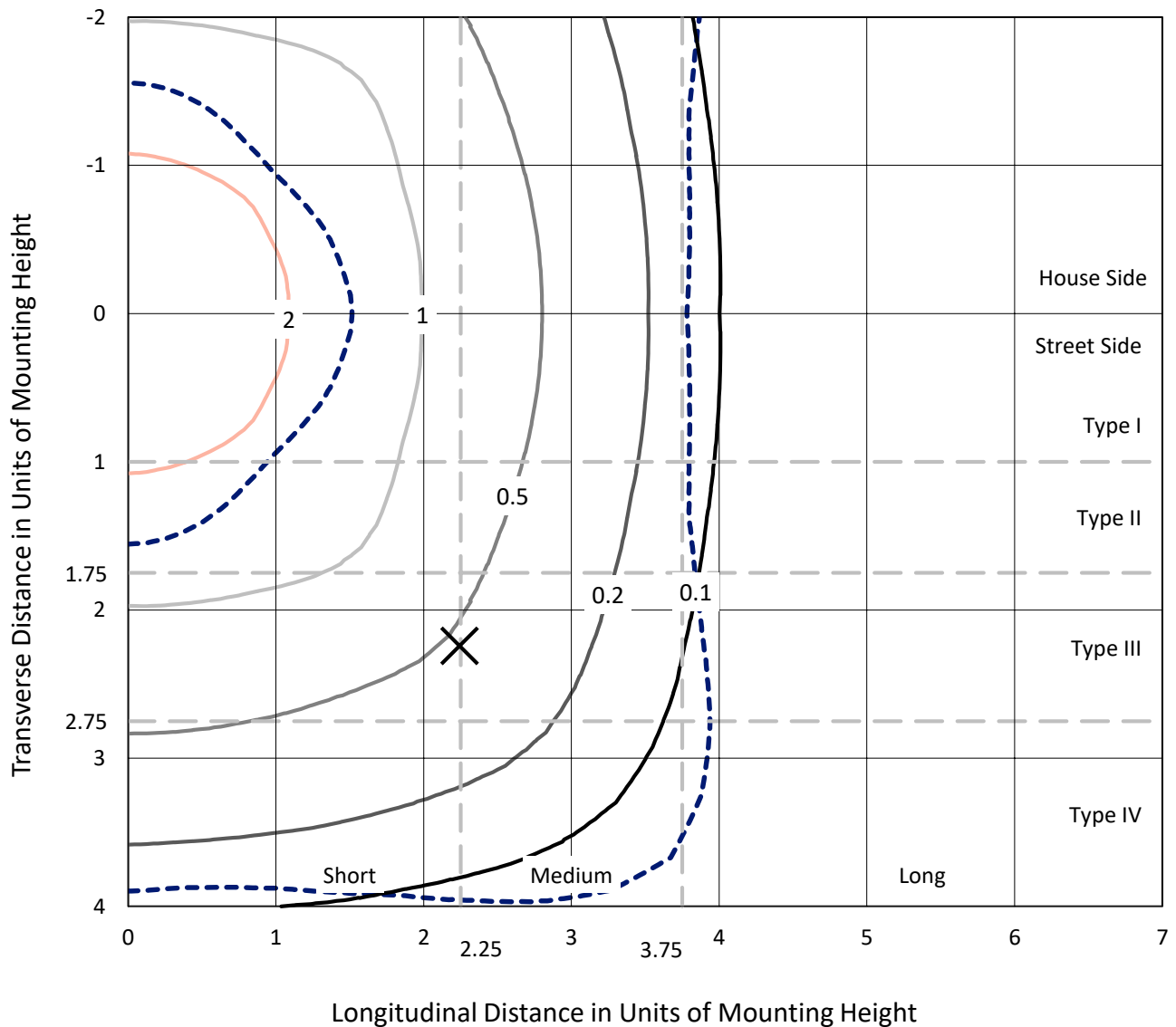


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

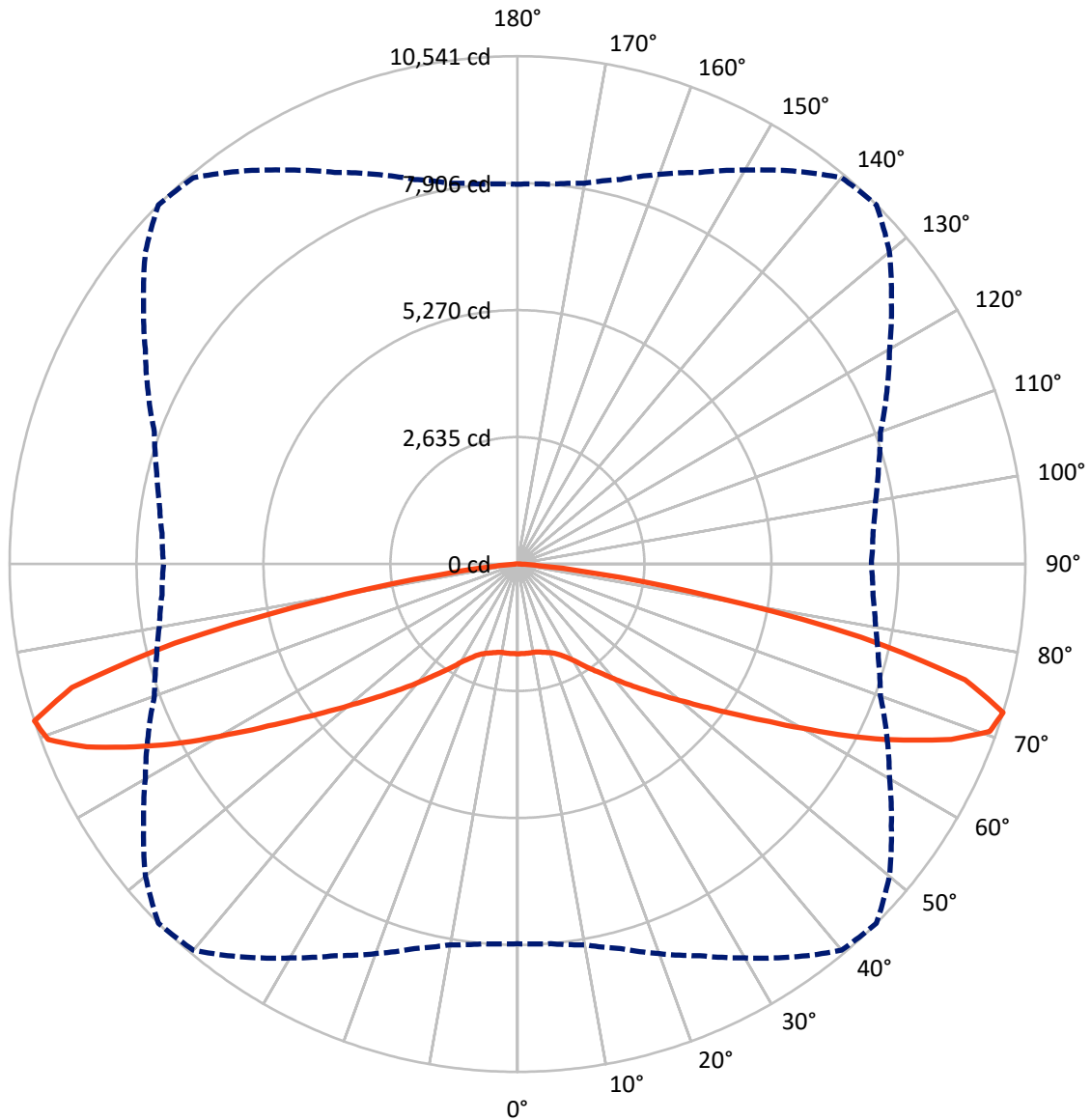


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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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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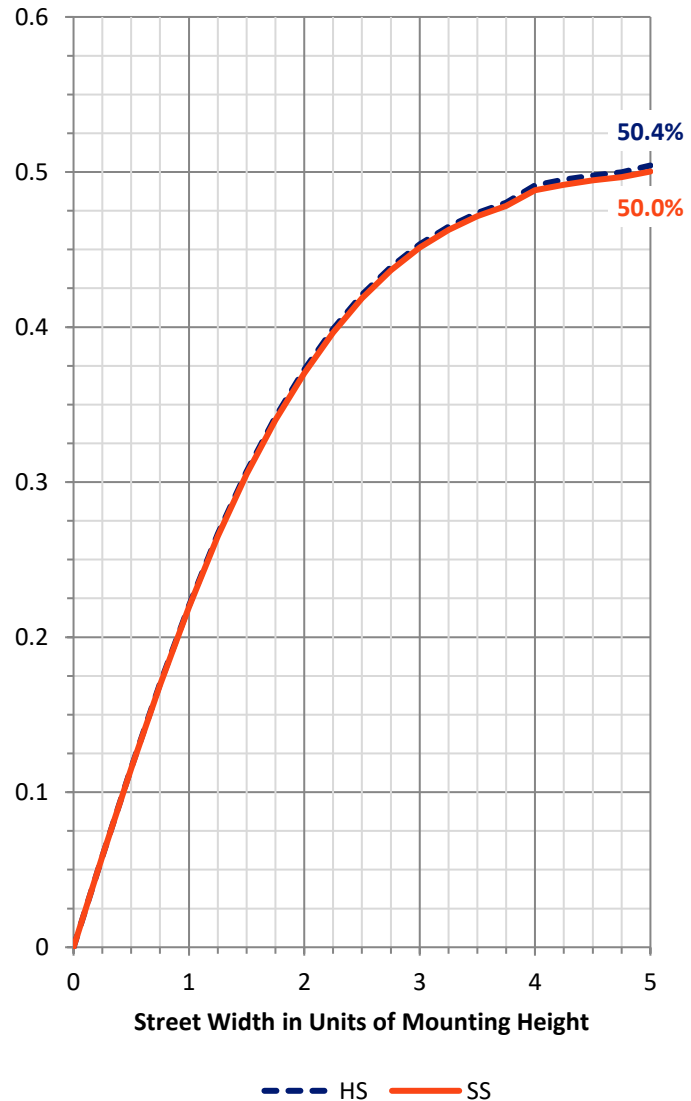
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13161.2	0.0	13161.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13161.2	0.0	13161.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	26322.3	0.0	26322.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	0.7
10°-20°	540.6	2.1
20°-30°	987.9	3.8
30°-40°	1703.3	6.5
40°-50°	2911.7	11.1
50°-60°	4719.5	17.9
60°-70°	7829.5	29.7
70°-80°	6895.9	26.2
80°-90°	556.0	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°	26322.3	100.0
0°-180°	26322.3	100.0



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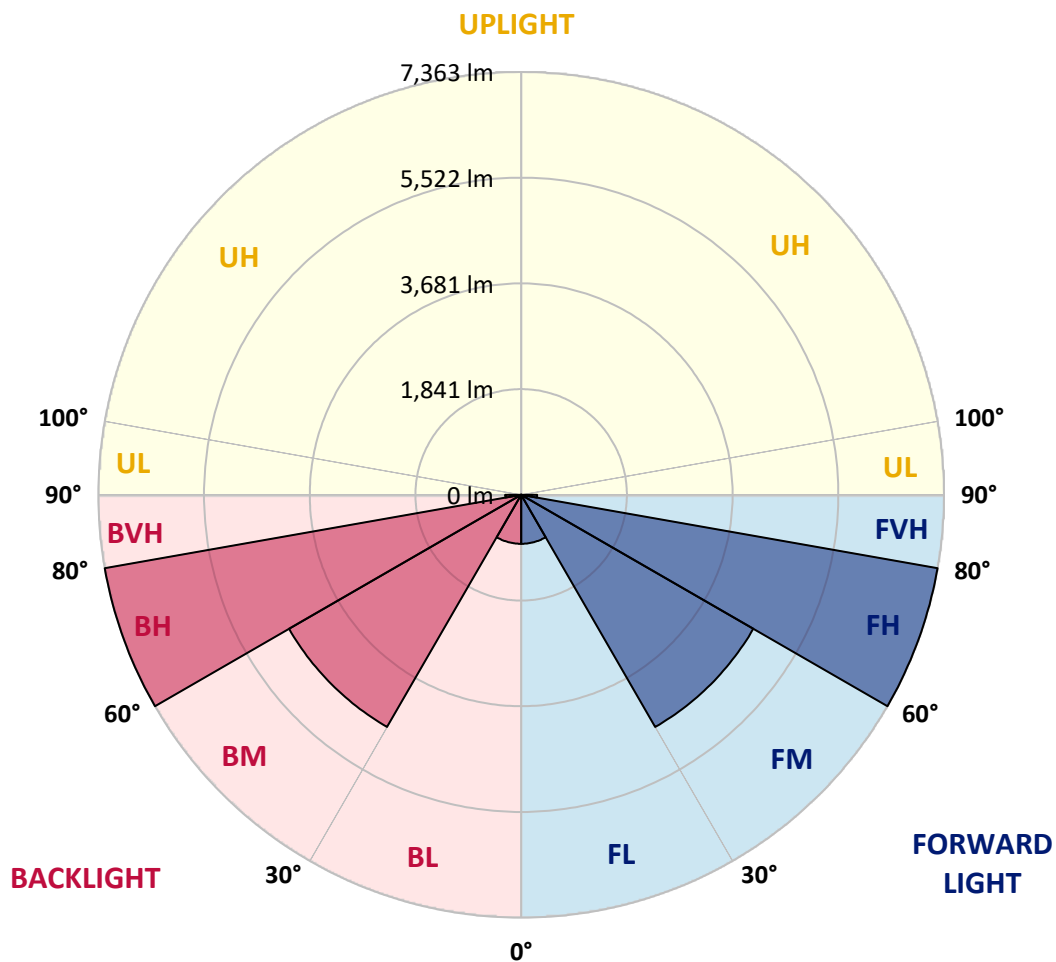
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	853.2	3.2			
FM	(30°-60°)	4667.2	17.7			
FH	(60°-80°)	7362.7	28.0			G3/7500
FVH	(80°-90°)	278.0	1.1			G3/500
BL	(0°-30°)	853.2	3.2	B2/1000		
BM	(30°-60°)	4667.2	17.7	B3/5000		
BH	(60°-80°)	7362.7	28.0	B5		G3/7500
BVH	(80°-90°)	278.0	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°	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1864.1	1865.2	1866.5	1865.2	1865.2	1864.1	1862.8	1864.1	1862.8	1860.4	1861.6
5°	1870.1	1872.4	1872.4	1870.1	1871.3	1870.1	1867.7	1868.8	1866.5	1862.8	1862.8
7.5°	1877.3	1878.5	1878.5	1876.1	1877.3	1874.9	1872.4	1871.3	1868.8	1864.1	1860.4
10°	1888.1	1889.3	1888.1	1885.7	1885.7	1882.2	1876.1	1873.7	1868.8	1861.6	1858.1
12.5°	1900.3	1901.4	1900.3	1897.8	1896.6	1890.7	1885.7	1882.2	1878.5	1872.4	1866.5
15°	1917.2	1919.6	1917.2	1912.3	1908.7	1903.9	1901.4	1902.7	1903.9	1899.0	1893.0
17.5°	1948.6	1949.7	1946.1	1935.3	1930.5	1925.5	1925.5	1928.0	1931.6	1929.2	1923.2
20°	2006.5	2003.0	1994.3	1981.1	1975.2	1966.7	1965.4	1966.7	1966.7	1965.4	1960.6
22.5°	2078.9	2076.5	2065.7	2048.8	2040.3	2035.5	2028.3	2022.2	2020.9	2017.4	2012.6
25°	2165.9	2164.6	2151.4	2136.9	2130.8	2124.9	2118.7	2110.3	2103.1	2094.6	2089.7
27.5°	2276.9	2272.2	2252.8	2245.6	2237.0	2233.5	2225.0	2215.3	2209.3	2198.4	2192.5
30°	2398.8	2398.8	2383.2	2380.8	2380.8	2372.3	2362.6	2345.7	2334.9	2324.1	2320.4
32.5°	2520.9	2522.0	2506.4	2511.1	2514.7	2520.9	2523.2	2517.2	2510.0	2508.7	2501.5
35°	2697.0	2692.2	2676.5	2680.2	2678.9	2677.8	2677.8	2691.1	2693.4	2695.9	2681.4
37.5°	2915.5	2915.5	2899.9	2899.9	2892.6	2885.4	2875.7	2884.2	2897.5	2901.0	2891.5
40°	3165.4	3173.9	3154.6	3153.4	3155.8	3132.8	3122.0	3135.3	3143.8	3158.3	3147.3
42.5°	3460.0	3454.1	3434.7	3432.2	3418.9	3411.8	3402.2	3413.0	3426.2	3435.8	3439.5
45°	3742.6	3737.7	3716.0	3716.0	3702.8	3696.6	3701.5	3719.6	3725.6	3738.9	3752.2
47.5°	4021.4	4015.5	4001.0	4006.9	4008.1	4018.9	4034.6	4051.6	4068.6	4086.6	4092.7
50°	4306.4	4307.6	4291.8	4306.4	4324.4	4354.7	4396.9	4424.6	4459.6	4482.6	4489.9
52.5°	4565.9	4570.8	4587.6	4621.4	4657.6	4716.8	4789.3	4856.9	4914.7	4953.4	4951.0
55°	4877.3	4884.7	4925.6	4983.6	5042.7	5132.1	5239.5	5359.1	5455.6	5511.2	5476.2
57.5°	5275.7	5291.5	5337.4	5415.8	5503.9	5619.8	5767.2	5947.0	6096.7	6171.5	6114.9
60°	5822.6	5832.3	5887.9	5974.7	6081.0	6224.7	6421.5	6663.0	6874.2	6973.3	6908.1
62.5°	6543.4	6561.5	6606.1	6694.3	6803.0	6965.9	7206.3	7508.0	7771.2	7908.9	7761.5
65°	7404.2	7462.2	7499.6	7588.9	7690.3	7863.0	8114.1	8437.6	8720.1	8810.7	8640.4
67.5°	8256.5	8307.3	8372.5	8475.1	8577.6	8772.0	9005.1	9318.9	9629.2	9711.2	9446.9
70°	8629.6	8658.6	8760.0	8900.0	9096.7	9326.3	9595.4	9947.9	10331.9	10399.5	10063.8
72.5°	7882.3	7911.3	8024.7	8262.6	8605.5	8970.0	9439.7	9957.6	10464.6	10540.7	10078.4
75°	5961.5	5914.4	6082.2	6397.4	6859.7	7368.0	8024.7	8767.2	9500.0	9595.4	9043.6
77.5°	3080.9	3074.9	3201.6	3592.9	4144.6	4722.8	5446.1	6285.1	7002.2	7291.9	6842.7
80°	868.0	877.6	938.1	1132.5	1454.7	1872.4	2437.6	3223.4	3810.2	4109.6	3858.4
82.5°	340.5	367.0	390.0	426.2	468.5	530.0	707.4	1052.8	1412.6	1687.7	1382.3
85°	121.9	130.3	184.7	218.5	222.2	234.2	266.7	311.5	375.4	447.9	368.2
87.5°	45.9	50.8	59.2	97.7	96.6	88.2	107.4	112.3	84.5	77.3	95.4
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°	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1859.2	1860.4	1860.4	1861.6	1862.8	1862.8	1865.2	1865.2
5°	1860.4	1860.4	1858.1	1859.2	1858.1	1858.1	1859.2	1859.2
7.5°	1858.1	1856.7	1854.5	1853.2	1850.8	1850.8	1850.8	1850.8
10°	1854.5	1853.2	1850.8	1849.5	1848.4	1848.4	1848.4	1848.4
12.5°	1864.1	1860.4	1858.1	1856.7	1856.7	1856.7	1856.7	1856.7
15°	1889.3	1881.0	1874.9	1874.9	1876.1	1878.5	1878.5	1881.0
17.5°	1920.8	1911.1	1905.0	1900.3	1902.7	1906.4	1908.7	1911.1
20°	1958.1	1953.4	1944.9	1940.1	1940.1	1944.9	1947.3	1948.6
22.5°	2010.0	2006.5	2003.0	1996.8	1996.8	1999.3	2004.1	2004.1
25°	2087.4	2085.0	2082.5	2077.7	2076.5	2076.5	2078.9	2081.4
27.5°	2184.0	2185.1	2182.7	2181.5	2177.9	2176.8	2180.4	2179.1
30°	2313.1	2319.2	2325.3	2320.4	2314.4	2310.7	2307.0	2302.3
32.5°	2488.1	2480.9	2476.1	2467.6	2456.9	2447.2	2439.8	2431.4
35°	2653.7	2641.6	2636.6	2643.9	2642.8	2636.6	2628.3	2621.0
37.5°	2856.4	2853.9	2856.4	2869.6	2867.3	2873.3	2856.4	2855.3
40°	3112.4	3114.8	3131.8	3147.3	3155.8	3164.3	3154.6	3145.0
42.5°	3409.3	3408.1	3414.2	3435.8	3450.4	3460.0	3439.5	3437.2
45°	3723.3	3714.9	3719.6	3737.7	3752.2	3763.1	3740.2	3740.2
47.5°	4068.6	4054.1	4038.3	4058.8	4067.3	4074.5	4056.4	4050.4
50°	4453.6	4423.4	4389.7	4398.1	4398.1	4395.6	4372.8	4371.5
52.5°	4895.6	4840.0	4778.4	4755.4	4742.2	4727.7	4687.9	4668.5
55°	5403.8	5320.4	5223.9	5164.7	5133.4	5093.5	5027.1	5008.9
57.5°	5997.8	5867.4	5700.7	5628.3	5558.4	5493.0	5419.5	5399.0
60°	6701.5	6509.6	6288.7	6154.6	6078.7	6015.9	5939.9	5936.2
62.5°	7486.4	7183.2	6933.4	6812.7	6757.1	6701.5	6629.1	6638.8
65°	8284.3	7968.0	7733.8	7636.0	7584.1	7538.2	7465.8	7476.7
67.5°	9071.4	8780.6	8523.4	8423.1	8365.1	8307.3	8242.0	8252.9
70°	9636.5	9275.4	8985.7	8763.7	8624.7	8467.9	8366.5	8341.0
72.5°	9474.8	8918.2	8458.3	8017.6	7759.2	7549.0	7406.6	7345.0
75°	8199.8	7439.3	6847.7	6306.8	6002.6	5755.1	5575.2	5463.0
77.5°	6089.5	5234.8	4535.7	3912.7	3420.1	3089.5	2856.4	2705.4
80°	3333.3	2535.2	1853.2	1302.6	957.4	795.5	702.7	658.0
82.5°	1038.3	670.0	493.8	426.2	396.1	379.1	351.2	306.6
85°	330.8	289.8	269.2	257.2	245.1	213.6	147.3	133.9
87.5°	128.0	131.6	130.3	123.2	125.6	90.5	72.5	64.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)