

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: McGRAW-EDISON

Report Number: P191674

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191674
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: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5WQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 24707 lumens
Efficiency: N/A
Efficacy: 128.0 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: 25 FT

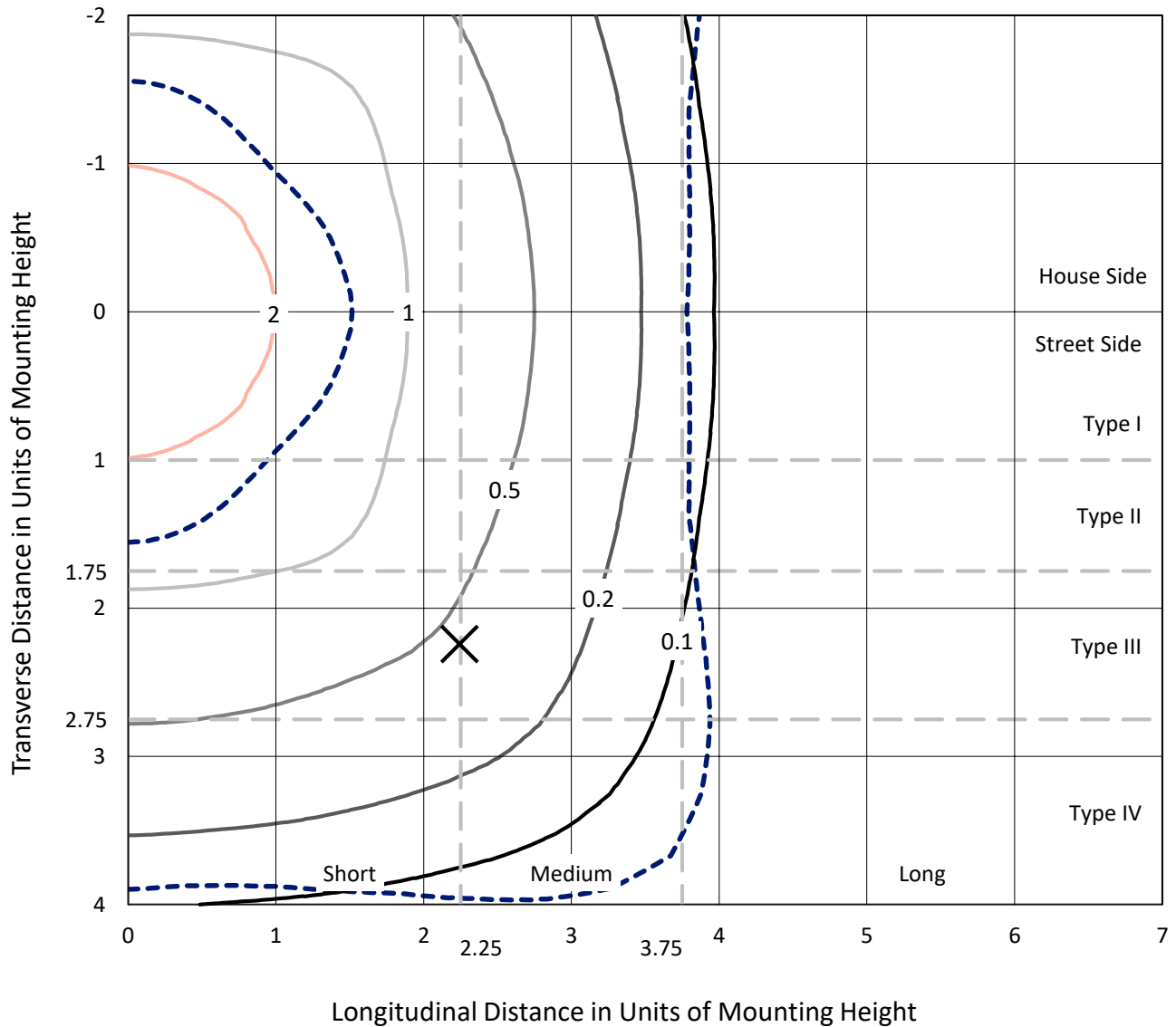


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

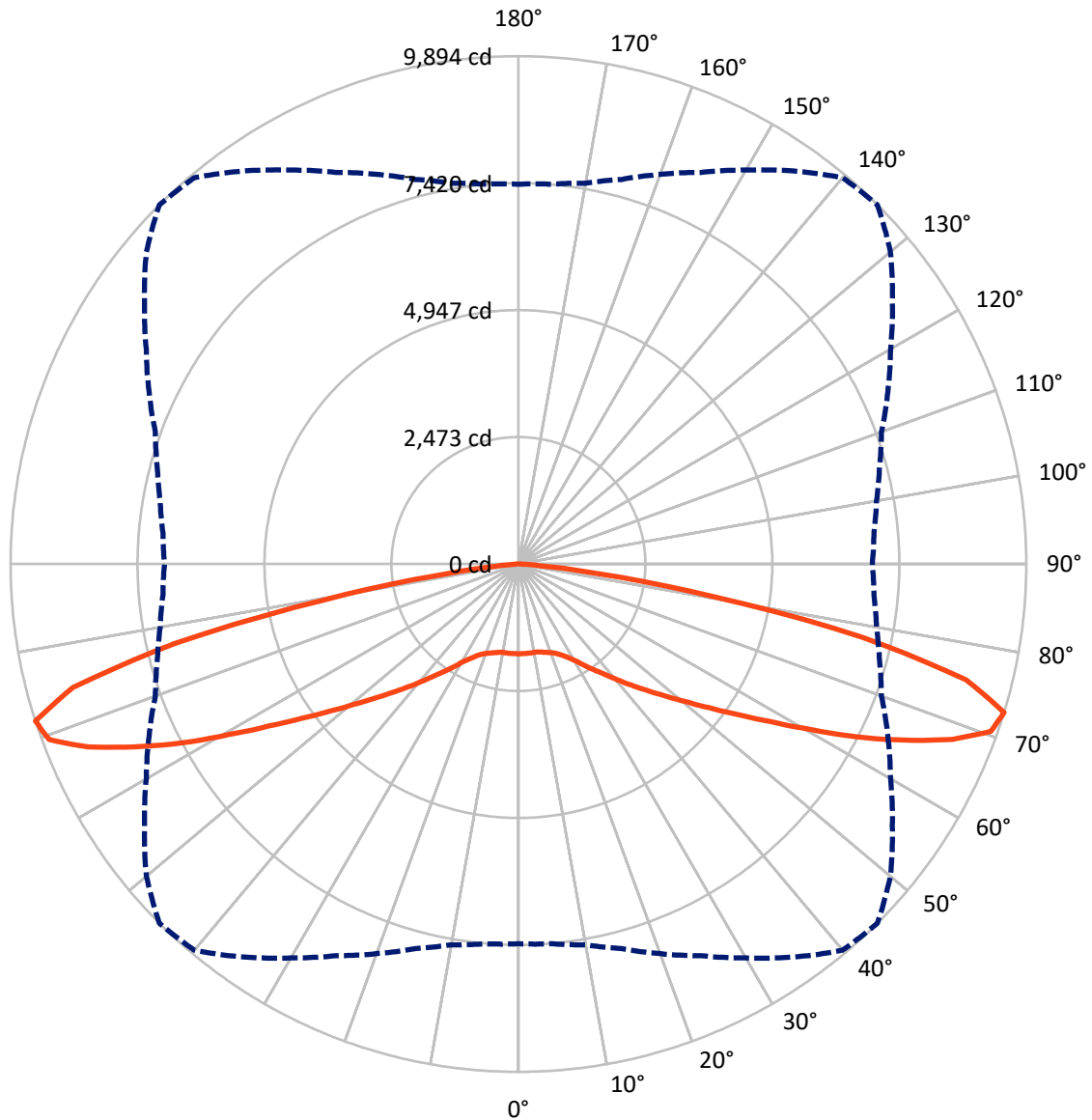


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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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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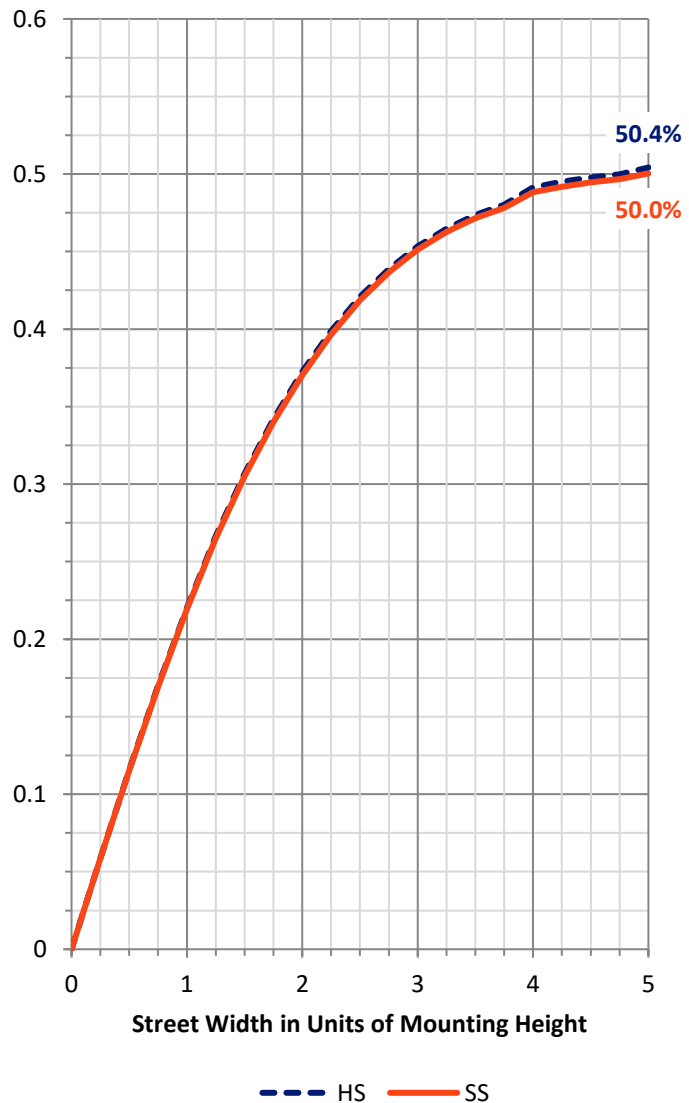
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12353.5	0.0	12353.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12353.5	0.0	12353.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24707.0	0.0	24707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	0.7
10°-20°	507.4	2.1
20°-30°	927.2	3.8
30°-40°	1598.7	6.5
40°-50°	2733.0	11.1
50°-60°	4429.9	17.9
60°-70°	7349.0	29.7
70°-80°	6472.8	26.2
80°-90°	521.9	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°	24707.0	100.0
0°-180°	24707.0	100.0



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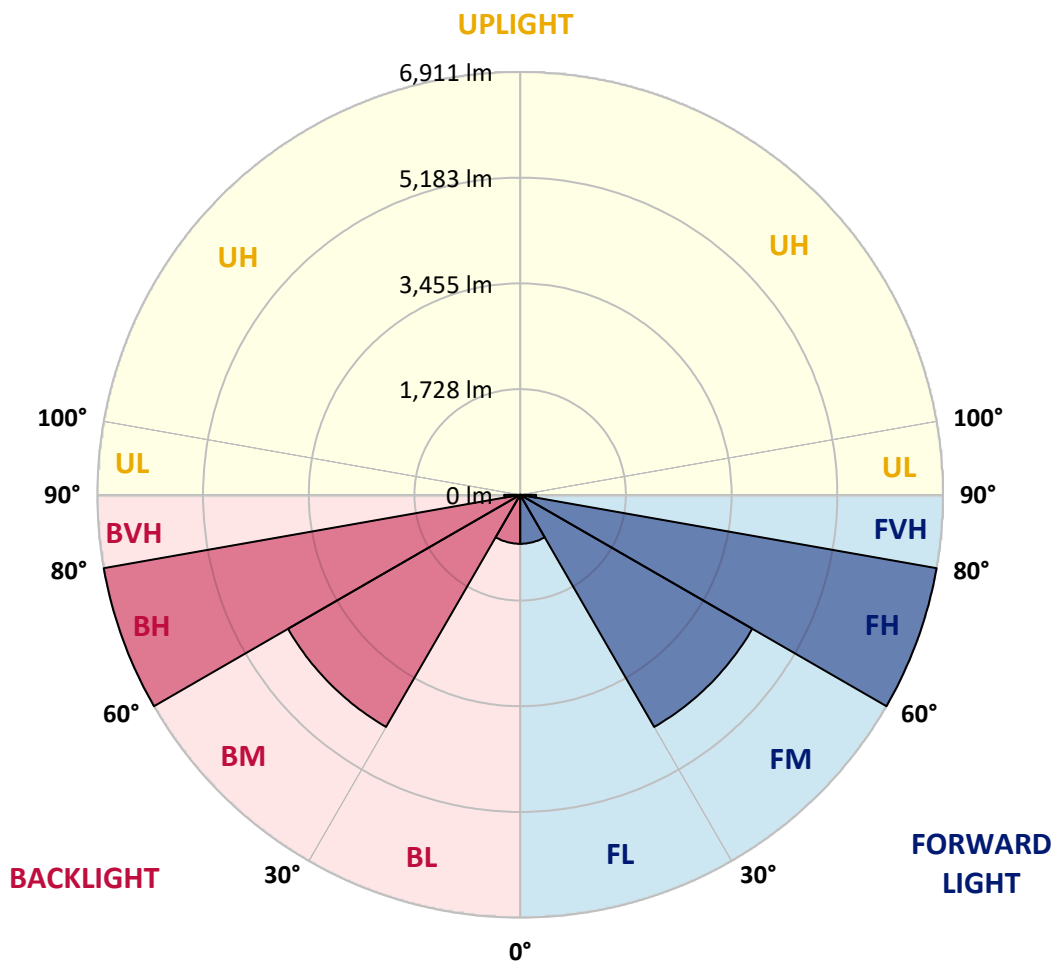
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.9	3.2			
FM	(30°-60°)	4380.8	17.7			
FH	(60°-80°)	6910.9	28.0			G3/7500
FVH	(80°-90°)	260.9	1.1			G3/500
BL	(0°-30°)	800.9	3.2	B2/1000		
BM	(30°-60°)	4380.8	17.7	B3/5000		
BH	(60°-80°)	6910.9	28.0	B5		G3/7500
BVH	(80°-90°)	260.9	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°	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6
2.5°	1749.6	1750.8	1751.9	1750.8	1750.8	1749.6	1748.5	1749.6	1748.5	1746.2	1747.4
5°	1755.3	1757.6	1757.6	1755.3	1756.4	1755.3	1753.0	1754.2	1751.9	1748.5	1748.5
7.5°	1762.1	1763.2	1763.2	1761.0	1762.1	1759.8	1757.6	1756.4	1754.2	1749.6	1746.2
10°	1772.3	1773.4	1772.3	1770.0	1770.0	1766.6	1761.0	1758.7	1754.2	1747.4	1744.0
12.5°	1783.6	1784.8	1783.6	1781.4	1780.2	1774.6	1770.0	1766.6	1763.2	1757.6	1751.9
15°	1799.5	1801.8	1799.5	1795.0	1791.6	1787.0	1784.8	1785.9	1787.0	1782.5	1776.8
17.5°	1829.0	1830.1	1826.7	1816.5	1812.0	1807.4	1807.4	1809.7	1813.1	1810.8	1805.2
20°	1883.4	1880.0	1872.0	1859.6	1853.9	1846.0	1844.8	1846.0	1846.0	1844.8	1840.3
22.5°	1951.3	1949.1	1938.9	1923.0	1915.1	1910.6	1903.8	1898.1	1897.0	1893.6	1889.0
25°	2032.9	2031.8	2019.3	2005.7	2000.1	1994.4	1988.7	1980.8	1974.0	1966.1	1961.5
27.5°	2137.2	2132.7	2114.5	2107.7	2099.8	2096.4	2088.5	2079.4	2073.7	2063.5	2057.9
30°	2251.6	2251.6	2236.9	2234.6	2234.6	2226.7	2217.6	2201.8	2191.6	2181.4	2178.0
32.5°	2366.1	2367.2	2352.5	2357.0	2360.4	2366.1	2368.4	2362.7	2355.9	2354.8	2348.0
35°	2531.5	2527.0	2512.3	2515.7	2514.5	2513.4	2513.4	2525.9	2528.1	2530.4	2516.8
37.5°	2736.6	2736.6	2721.9	2721.9	2715.1	2708.3	2699.2	2707.2	2719.6	2723.0	2714.0
40°	2971.2	2979.1	2961.0	2959.9	2962.1	2940.6	2930.4	2942.9	2950.8	2964.4	2954.2
42.5°	3247.7	3242.0	3223.9	3221.6	3209.2	3202.4	3193.3	3203.5	3216.0	3225.0	3228.4
45°	3512.9	3508.3	3487.9	3487.9	3475.5	3469.8	3474.3	3491.3	3497.0	3509.5	3521.9
47.5°	3774.6	3769.0	3755.4	3761.0	3762.2	3772.4	3787.1	3803.0	3818.8	3835.8	3841.5
50°	4042.1	4043.2	4028.5	4042.1	4059.1	4087.4	4127.1	4153.1	4186.0	4207.5	4214.3
52.5°	4285.7	4290.2	4306.1	4337.8	4371.8	4427.4	4495.3	4558.8	4613.2	4649.5	4647.2
55°	4578.1	4584.9	4623.4	4677.8	4733.3	4817.2	4918.0	5030.2	5120.9	5173.0	5140.1
57.5°	4952.0	4966.8	5009.8	5083.5	5166.2	5275.0	5413.2	5582.1	5722.6	5792.8	5739.6
60°	5465.4	5474.4	5526.5	5608.1	5707.9	5842.7	6027.4	6254.1	6452.4	6545.3	6484.1
62.5°	6141.9	6158.9	6200.8	6283.5	6385.5	6538.5	6764.0	7047.3	7294.3	7423.5	7285.3
65°	6949.8	7004.2	7039.4	7123.2	7218.4	7380.4	7616.1	7919.8	8185.0	8270.0	8110.2
67.5°	7749.9	7797.5	7858.6	7955.0	8051.3	8233.7	8452.4	8747.1	9038.3	9115.3	8867.2
70°	8100.0	8127.2	8222.4	8353.8	8538.6	8753.9	9006.6	9337.5	9697.8	9761.3	9446.2
72.5°	7398.6	7425.8	7532.3	7755.5	8077.4	8419.6	8860.4	9346.5	9822.5	9893.8	9459.8
75°	5595.7	5551.5	5709.0	6004.8	6438.8	6915.8	7532.3	8229.2	8917.0	9006.6	8488.7
77.5°	2891.9	2886.2	3005.2	3372.4	3890.2	4433.0	5111.8	5899.4	6572.5	6844.4	6422.9
80°	814.8	823.8	880.5	1062.9	1365.5	1757.6	2287.9	3025.6	3576.3	3857.4	3621.7
82.5°	319.6	344.5	366.0	400.0	439.7	497.5	664.0	988.1	1325.8	1584.2	1297.5
85°	114.5	122.4	173.4	205.1	208.5	219.8	250.4	292.4	352.4	420.4	345.6
87.5°	43.1	47.6	55.5	91.8	90.7	82.7	100.9	105.4	79.3	72.5	89.5
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°	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6
2.5°	1745.1	1746.2	1746.2	1747.4	1748.5	1748.5	1750.8	1750.8
5°	1746.2	1746.2	1744.0	1745.1	1744.0	1744.0	1745.1	1745.1
7.5°	1744.0	1742.8	1740.6	1739.4	1737.2	1737.2	1737.2	1737.2
10°	1740.6	1739.4	1737.2	1736.0	1734.9	1734.9	1734.9	1734.9
12.5°	1749.6	1746.2	1744.0	1742.8	1742.8	1742.8	1742.8	1742.8
15°	1773.4	1765.5	1759.8	1759.8	1761.0	1763.2	1763.2	1765.5
17.5°	1802.9	1793.8	1788.2	1783.6	1785.9	1789.3	1791.6	1793.8
20°	1838.0	1833.5	1825.6	1821.0	1821.0	1825.6	1827.8	1829.0
22.5°	1886.8	1883.4	1880.0	1874.3	1874.3	1876.6	1881.1	1881.1
25°	1959.3	1957.0	1954.7	1950.2	1949.1	1949.1	1951.3	1953.6
27.5°	2049.9	2051.1	2048.8	2047.7	2044.3	2043.1	2046.5	2045.4
30°	2171.2	2176.9	2182.5	2178.0	2172.3	2168.9	2165.5	2161.0
32.5°	2335.5	2328.7	2324.2	2316.2	2306.0	2297.0	2290.2	2282.2
35°	2490.7	2479.4	2474.9	2481.7	2480.5	2474.9	2466.9	2460.1
37.5°	2681.1	2678.9	2681.1	2693.6	2691.3	2697.0	2681.1	2680.0
40°	2921.4	2923.6	2939.5	2954.2	2962.1	2970.1	2961.0	2951.9
42.5°	3200.1	3199.0	3204.7	3225.0	3238.6	3247.7	3228.4	3226.2
45°	3494.7	3486.8	3491.3	3508.3	3521.9	3532.1	3510.6	3510.6
47.5°	3818.8	3805.2	3790.5	3809.8	3817.7	3824.5	3807.5	3801.8
50°	4180.3	4152.0	4120.3	4128.2	4128.2	4125.9	4104.4	4103.3
52.5°	4595.1	4542.9	4485.2	4463.6	4451.2	4437.6	4400.2	4382.0
55°	5072.1	4994.0	4903.3	4847.8	4818.3	4780.9	4718.6	4701.6
57.5°	5629.7	5507.3	5350.9	5282.9	5217.2	5156.0	5086.9	5067.6
60°	6290.3	6110.1	5902.8	5777.0	5705.6	5646.7	5575.3	5571.9
62.5°	7026.9	6742.5	6507.9	6394.6	6342.4	6290.3	6222.3	6231.4
65°	7775.9	7479.0	7259.2	7167.4	7118.7	7075.6	7007.6	7017.8
67.5°	8514.8	8241.7	8000.3	7906.2	7851.8	7797.5	7736.3	7746.5
70°	9045.1	8706.3	8434.3	8225.8	8095.5	7948.2	7853.0	7829.2
72.5°	8893.2	8370.8	7939.1	7525.5	7283.0	7085.8	6952.1	6894.3
75°	7696.6	6982.7	6427.4	5919.8	5634.2	5401.9	5233.1	5127.7
77.5°	5715.8	4913.5	4257.4	3672.7	3210.3	2899.8	2681.1	2539.5
80°	3128.7	2379.7	1739.4	1222.7	898.6	746.8	659.5	617.6
82.5°	974.5	628.9	463.5	400.0	371.7	355.8	329.8	287.8
85°	310.5	272.0	252.7	241.4	230.0	200.6	138.2	125.8
87.5°	120.1	123.5	122.4	115.6	117.9	85.0	68.0	60.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)