

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: P299966

Luminaire Tested: **GLNA-AF-06-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299966
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: GLNA-AF-06-LED-E1-5WQ-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23811.6 lumens
Efficiency: N/A
Efficacy: 123.4 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

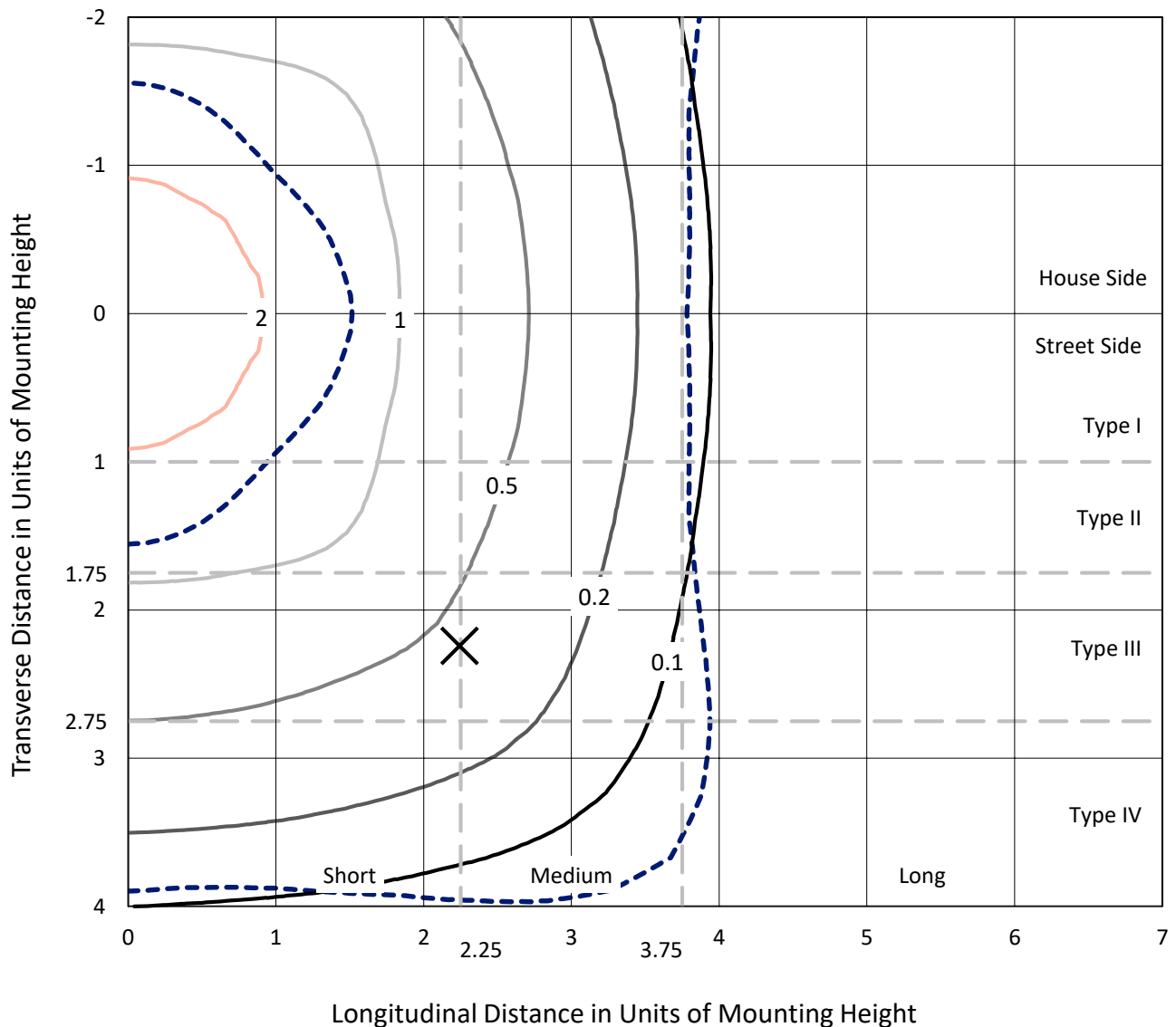


REPORT NUMBER: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-5WQ-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

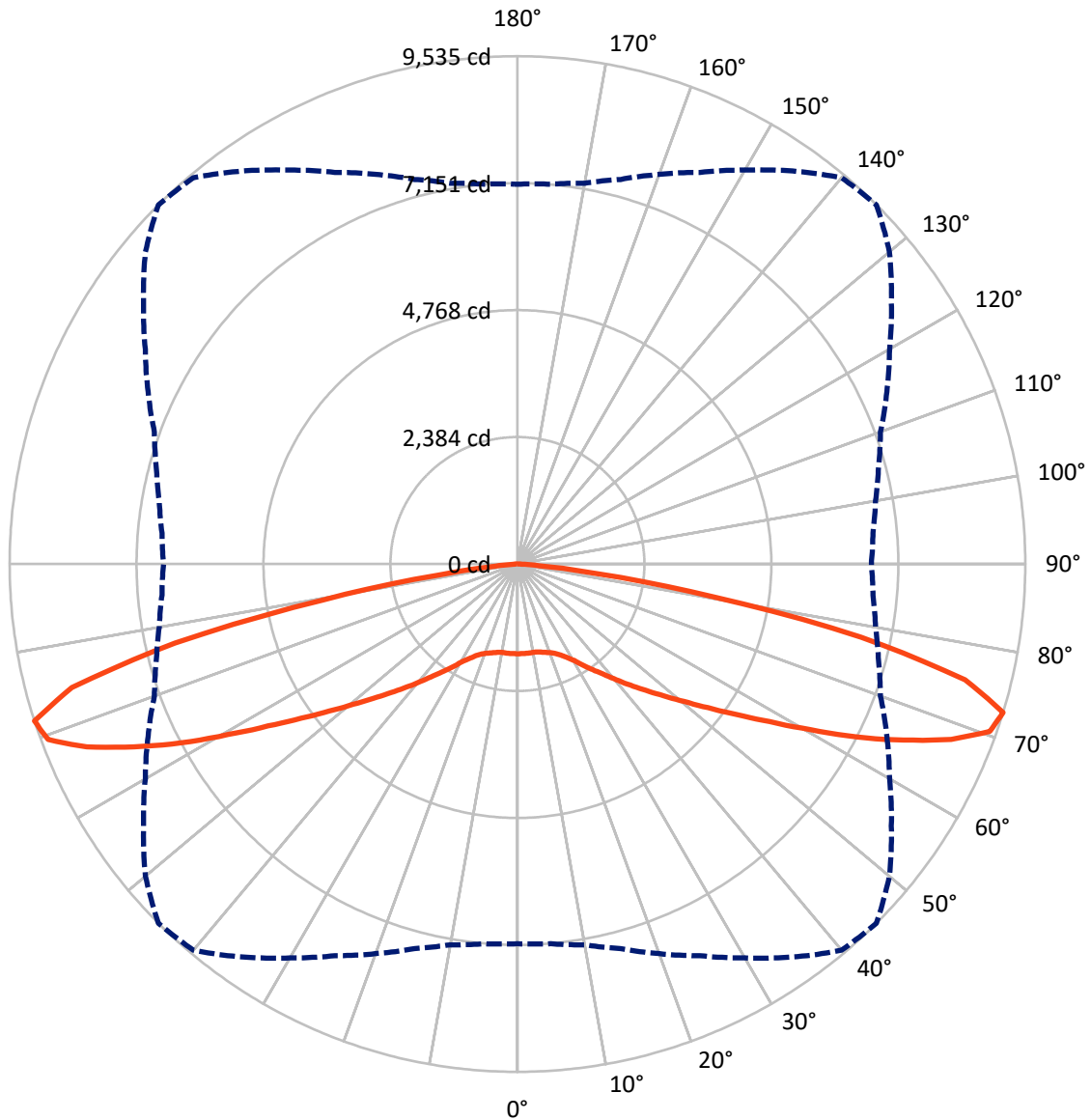


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-5WQ-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-5WQ-7030-600

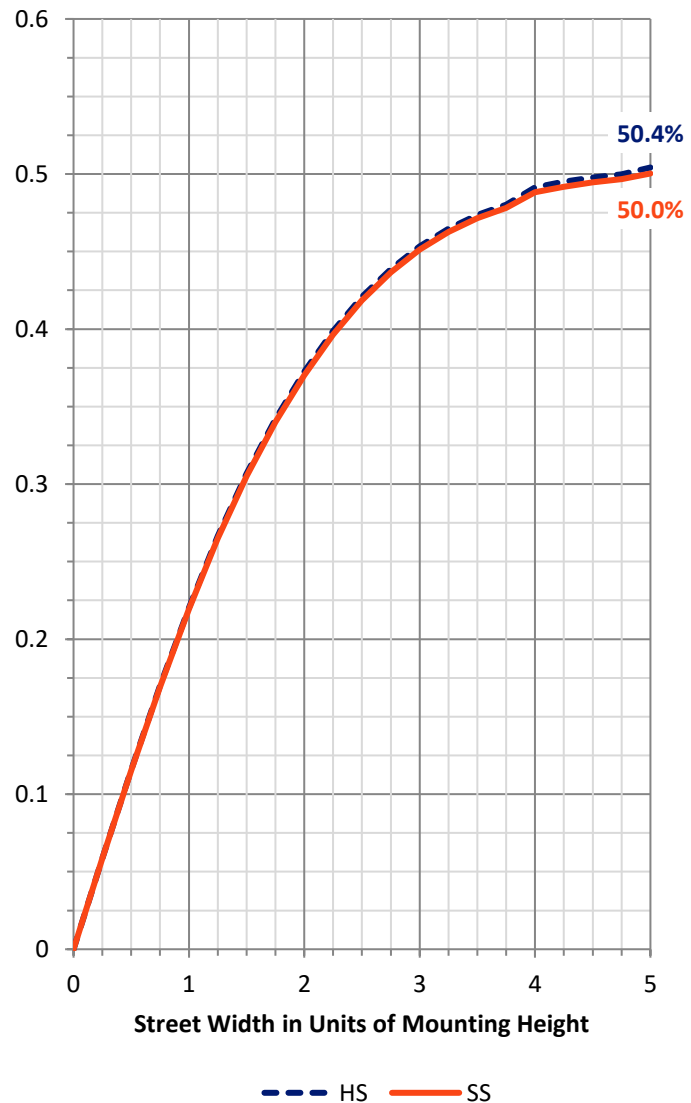
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11905.8	0.0	11905.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11905.8	0.0	11905.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23811.6	0.0	23811.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	0.7
10°-20°	489.0	2.1
20°-30°	893.6	3.8
30°-40°	1540.8	6.5
40°-50°	2634.0	11.1
50°-60°	4269.3	17.9
60°-70°	7082.7	29.7
70°-80°	6238.2	26.2
80°-90°	503.0	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°	23811.6	100.0
0°-180°	23811.6	100.0



REPORT NUMBER: P299966

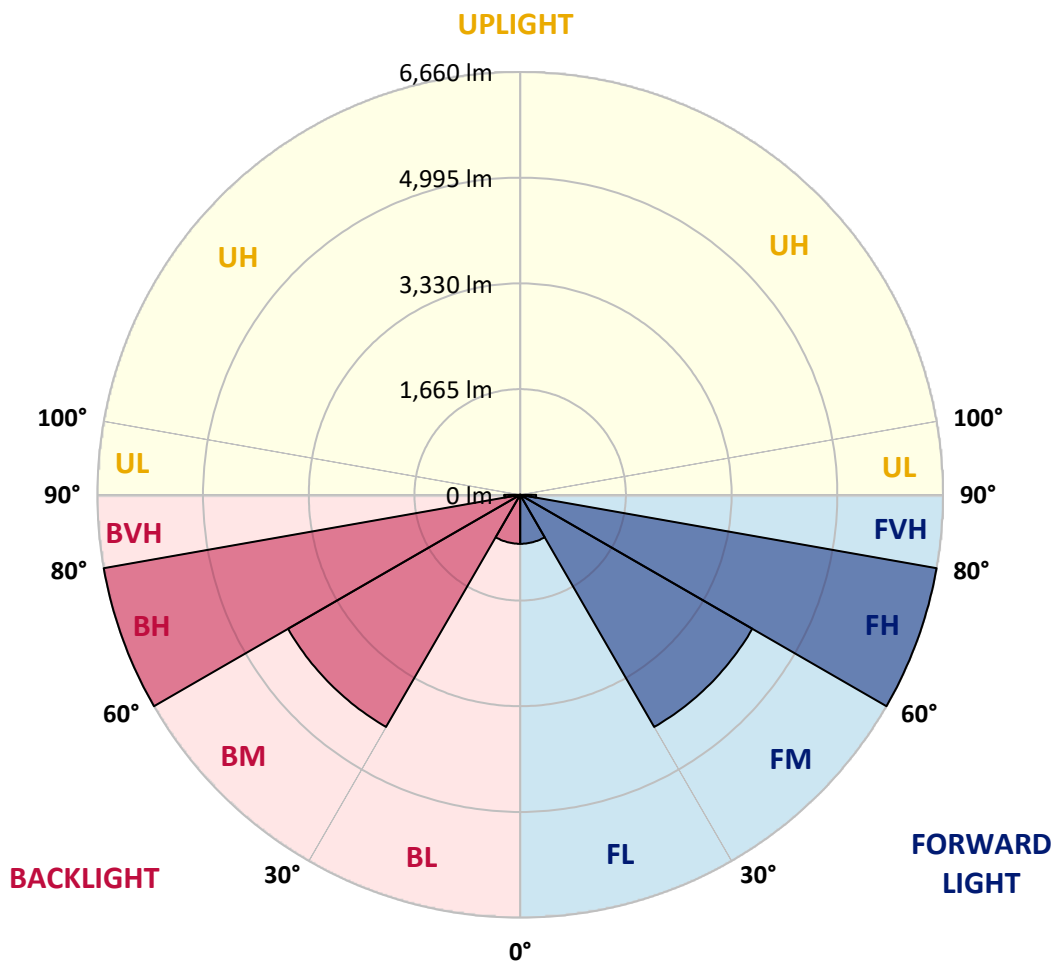
CATALOG NUMBER: GLNA-AF-06-LED-E1-5WQ-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.8	3.2			
FM (30°-60°)	4222.1	17.7			
FH (60°-80°)	6660.4	28.0			G3/7500
FVH (80°-90°)	251.5	1.1			G3/500
BL (0°-30°)	771.8	3.2	B2/1000		
BM (30°-60°)	4222.1	17.7	B3/5000		
BH (60°-80°)	6660.4	28.0	B5		G3/7500
BVH (80°-90°)	251.5	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: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-5WQ-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2
2.5°	1686.2	1687.3	1688.4	1687.3	1687.3	1686.2	1685.1	1686.2	1685.1	1683.0	1684.0
5°	1691.7	1693.9	1693.9	1691.7	1692.8	1691.7	1689.5	1690.6	1688.4	1685.1	1685.1
7.5°	1698.2	1699.3	1699.3	1697.2	1698.2	1696.1	1693.9	1692.8	1690.6	1686.2	1683.0
10°	1708.1	1709.2	1708.1	1705.9	1705.9	1702.6	1697.2	1695.0	1690.6	1684.0	1680.8
12.5°	1719.0	1720.1	1719.0	1716.8	1715.7	1710.3	1705.9	1702.6	1699.3	1693.9	1688.4
15°	1734.3	1736.5	1734.3	1729.9	1726.6	1722.3	1720.1	1721.2	1722.3	1717.9	1712.4
17.5°	1762.7	1763.8	1760.5	1750.7	1746.3	1741.9	1741.9	1744.1	1747.4	1745.2	1739.7
20°	1815.1	1811.8	1804.2	1792.2	1786.7	1779.1	1778.0	1779.1	1779.1	1778.0	1773.6
22.5°	1880.6	1878.4	1868.6	1853.3	1845.7	1841.3	1834.8	1829.3	1828.2	1824.9	1820.6
25°	1959.3	1958.2	1946.2	1933.1	1927.6	1922.1	1916.7	1909.0	1902.5	1894.8	1890.5
27.5°	2059.7	2055.4	2037.9	2031.3	2023.7	2020.4	2012.8	2004.0	1998.6	1988.8	1983.3
30°	2170.0	2170.0	2155.8	2153.7	2153.7	2146.0	2137.3	2122.0	2112.2	2102.3	2099.1
32.5°	2280.3	2281.4	2267.2	2271.6	2274.9	2280.3	2282.5	2277.1	2270.5	2269.4	2262.9
35°	2439.8	2435.4	2421.2	2424.5	2423.4	2422.3	2422.3	2434.3	2436.5	2438.7	2425.6
37.5°	2637.5	2637.5	2623.3	2623.3	2616.7	2610.2	2601.4	2609.1	2621.1	2624.4	2615.6
40°	2863.5	2871.2	2853.7	2852.6	2854.8	2834.1	2824.2	2836.2	2843.9	2857.0	2847.2
42.5°	3130.0	3124.6	3107.1	3104.9	3092.9	3086.3	3077.6	3087.4	3099.4	3108.2	3111.5
45°	3385.6	3381.2	3361.5	3361.5	3349.5	3344.1	3348.4	3364.8	3370.3	3382.3	3394.3
47.5°	3637.9	3632.4	3619.3	3624.7	3625.8	3635.7	3649.9	3665.2	3680.4	3696.8	3702.3
50°	3895.6	3896.7	3882.5	3895.6	3912.0	3939.3	3977.5	4002.6	4034.3	4055.0	4061.6
52.5°	4130.4	4134.8	4150.1	4180.6	4213.4	4266.9	4332.4	4393.6	4446.0	4481.0	4478.8
55°	4412.2	4418.7	4455.9	4508.3	4561.8	4642.6	4739.8	4847.9	4935.3	4985.5	4953.9
57.5°	4772.6	4786.8	4828.3	4899.3	4979.0	5083.8	5217.1	5379.8	5515.2	5582.9	5531.6
60°	5267.3	5276.0	5326.3	5404.9	5501.0	5631.0	5809.0	6027.4	6218.5	6308.1	6249.1
62.5°	5919.3	5935.7	5976.1	6055.8	6154.1	6301.5	6518.9	6791.9	7030.0	7154.5	7021.2
65°	6698.0	6750.4	6784.3	6865.1	6956.8	7113.0	7340.1	7632.8	7888.4	7970.3	7816.3
67.5°	7469.0	7514.9	7573.9	7666.7	7759.5	7935.3	8146.1	8430.1	8710.8	8785.0	8545.8
70°	7806.5	7832.7	7924.4	8051.1	8229.1	8436.6	8680.2	8999.1	9346.4	9407.5	9103.9
72.5°	7130.5	7156.7	7259.3	7474.5	7784.6	8114.5	8539.3	9007.8	9466.5	9535.3	9117.0
75°	5392.9	5350.3	5502.1	5787.1	6205.4	6665.2	7259.3	7931.0	8593.9	8680.2	8181.1
77.5°	2787.1	2781.6	2896.3	3250.2	3749.2	4272.4	4926.6	5685.6	6334.3	6596.4	6190.1
80°	785.2	794.0	848.6	1024.4	1316.0	1693.9	2205.0	2916.0	3446.7	3717.6	3490.4
82.5°	308.0	332.0	352.8	385.5	423.7	479.4	640.0	952.3	1277.8	1526.8	1250.5
85°	110.3	117.9	167.1	197.7	201.0	211.9	241.4	281.8	339.6	405.2	333.1
87.5°	41.5	45.9	53.5	88.5	87.4	79.7	97.2	101.6	76.4	69.9	86.3
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: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-5WQ-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2	1686.2
2.5°	1681.9	1683.0	1683.0	1684.0	1685.1	1685.1	1687.3	1687.3
5°	1683.0	1683.0	1680.8	1681.9	1680.8	1680.8	1681.9	1681.9
7.5°	1680.8	1679.7	1677.5	1676.4	1674.2	1674.2	1674.2	1674.2
10°	1677.5	1676.4	1674.2	1673.1	1672.0	1672.0	1672.0	1672.0
12.5°	1686.2	1683.0	1680.8	1679.7	1679.7	1679.7	1679.7	1679.7
15°	1709.2	1701.5	1696.1	1696.1	1697.2	1699.3	1699.3	1701.5
17.5°	1737.6	1728.8	1723.4	1719.0	1721.2	1724.5	1726.6	1728.8
20°	1771.4	1767.1	1759.4	1755.0	1755.0	1759.4	1761.6	1762.7
22.5°	1818.4	1815.1	1811.8	1806.4	1806.4	1808.6	1812.9	1812.9
25°	1888.3	1886.1	1883.9	1879.5	1878.4	1878.4	1880.6	1882.8
27.5°	1975.6	1976.7	1974.6	1973.5	1970.2	1969.1	1972.4	1971.3
30°	2092.5	2098.0	2103.4	2099.1	2093.6	2090.3	2087.0	2082.7
32.5°	2250.9	2244.3	2239.9	2232.3	2222.5	2213.7	2207.2	2199.5
35°	2400.5	2389.6	2385.2	2391.7	2390.7	2385.2	2377.5	2371.0
37.5°	2584.0	2581.8	2584.0	2596.0	2593.8	2599.2	2584.0	2582.9
40°	2815.5	2817.7	2833.0	2847.2	2854.8	2862.4	2853.7	2845.0
42.5°	3084.1	3083.1	3088.5	3108.2	3121.3	3130.0	3111.5	3109.3
45°	3368.1	3360.5	3364.8	3381.2	3394.3	3404.1	3383.4	3383.4
47.5°	3680.4	3667.3	3653.1	3671.7	3679.4	3685.9	3669.5	3664.1
50°	4028.8	4001.5	3971.0	3978.6	3978.6	3976.4	3955.7	3954.6
52.5°	4428.5	4378.3	4322.6	4301.9	4289.8	4276.7	4240.7	4223.2
55°	4888.3	4813.0	4725.6	4672.1	4643.7	4607.7	4547.6	4531.2
57.5°	5425.7	5307.7	5157.0	5091.5	5028.1	4969.1	4902.5	4884.0
60°	6062.4	5888.7	5688.9	5567.6	5498.8	5442.0	5373.2	5370.0
62.5°	6772.2	6498.1	6272.0	6162.8	6112.6	6062.4	5996.8	6005.6
65°	7494.1	7208.0	6996.1	6907.7	6860.7	6819.2	6753.7	6763.5
67.5°	8206.2	7943.0	7710.4	7619.7	7567.3	7514.9	7455.9	7465.7
70°	8717.3	8390.8	8128.7	7927.7	7802.1	7660.1	7568.4	7545.5
72.5°	8571.0	8067.5	7651.4	7252.8	7019.1	6829.0	6700.2	6644.5
75°	7417.7	6729.6	6194.5	5705.2	5430.0	5206.1	5043.4	4941.8
77.5°	5508.7	4735.4	4103.1	3539.6	3094.0	2794.7	2584.0	2447.4
80°	3015.3	2293.5	1676.4	1178.4	866.1	719.7	635.6	595.2
82.5°	939.2	606.1	446.7	385.5	358.2	342.9	317.8	277.4
85°	299.2	262.1	243.5	232.6	221.7	193.3	133.2	121.2
87.5°	115.8	119.0	117.9	111.4	113.6	81.9	65.5	57.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)