

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: P652247

Luminaire Tested: **GALN-SA2B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8204.8 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

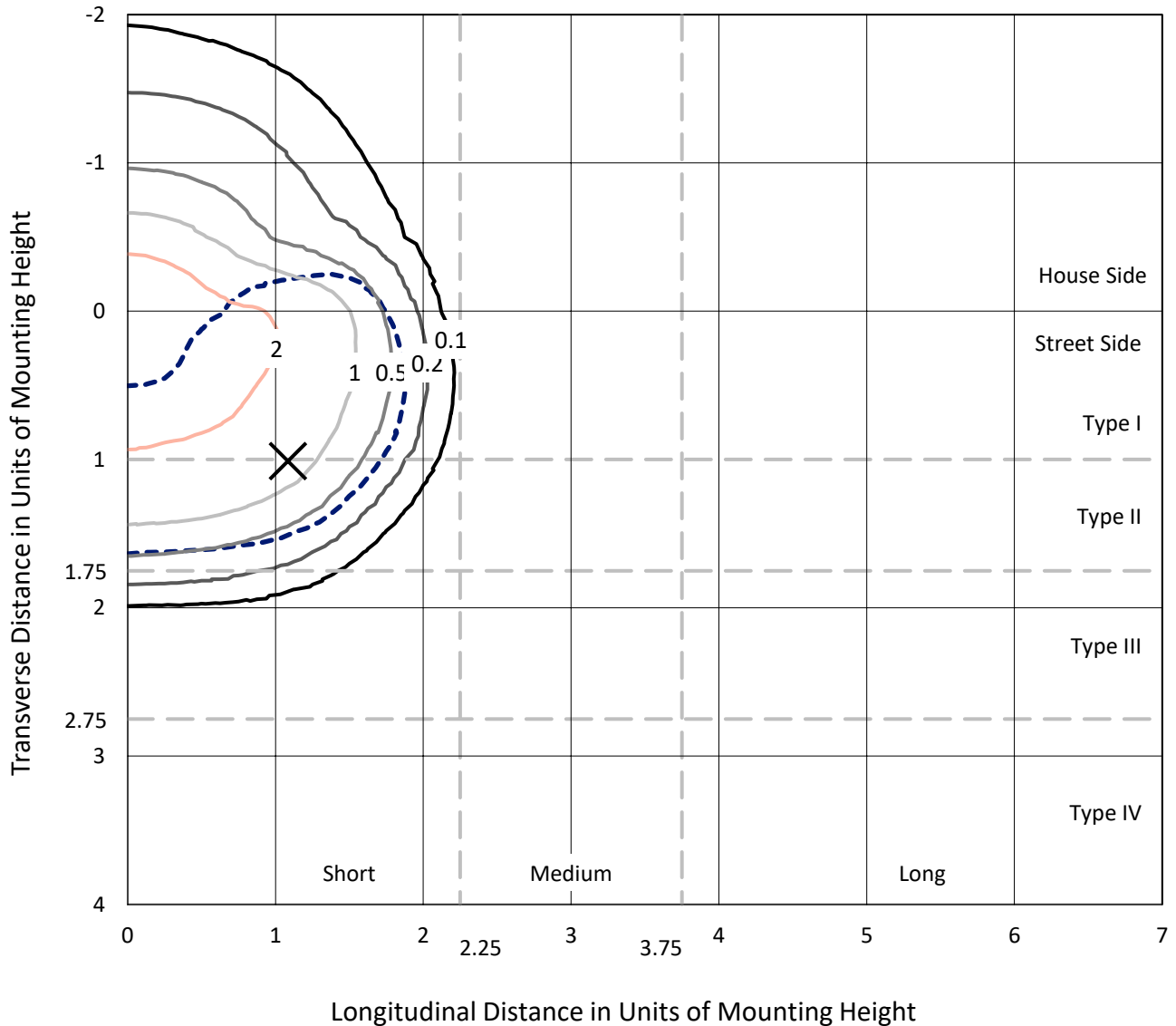
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

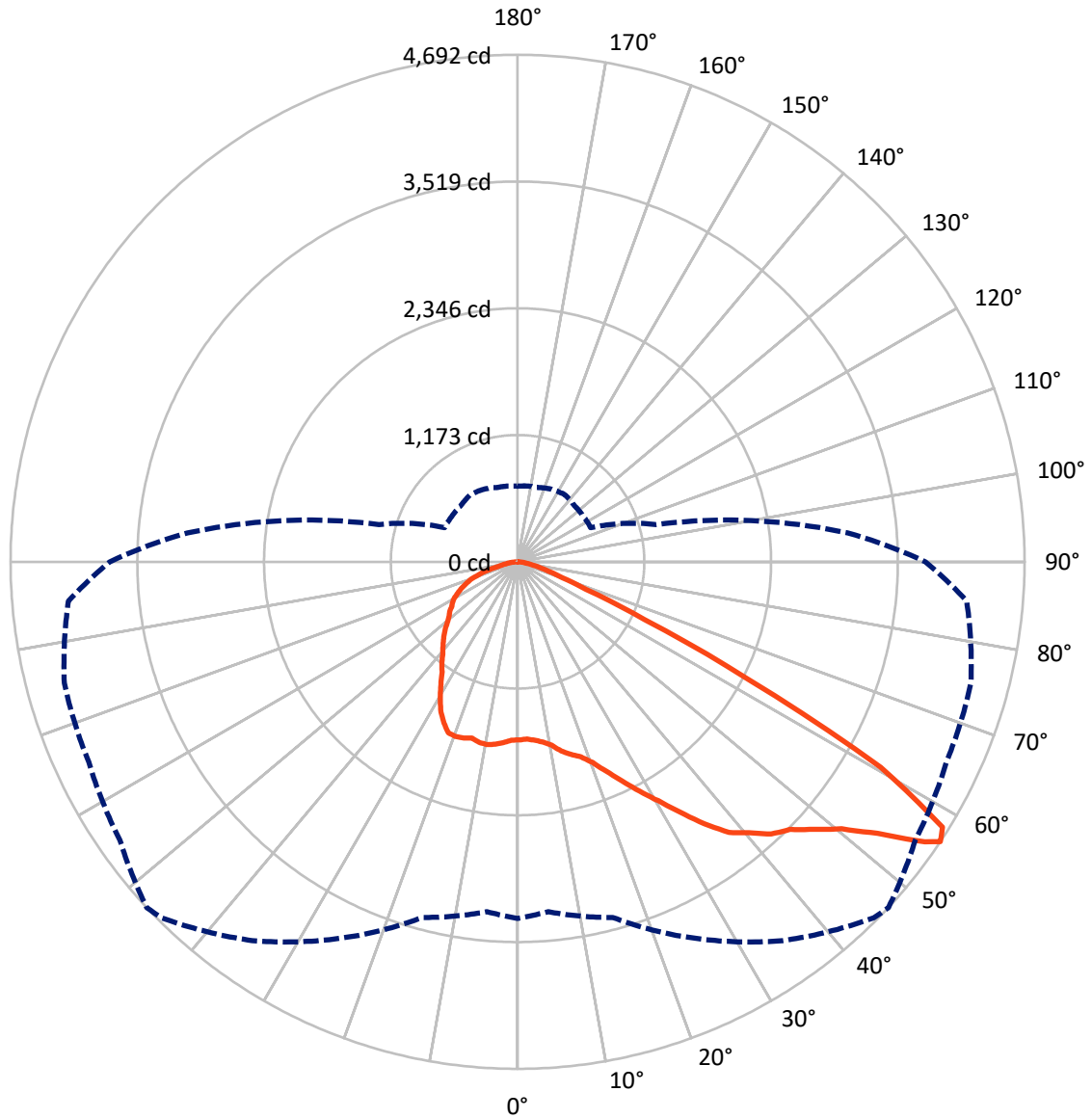
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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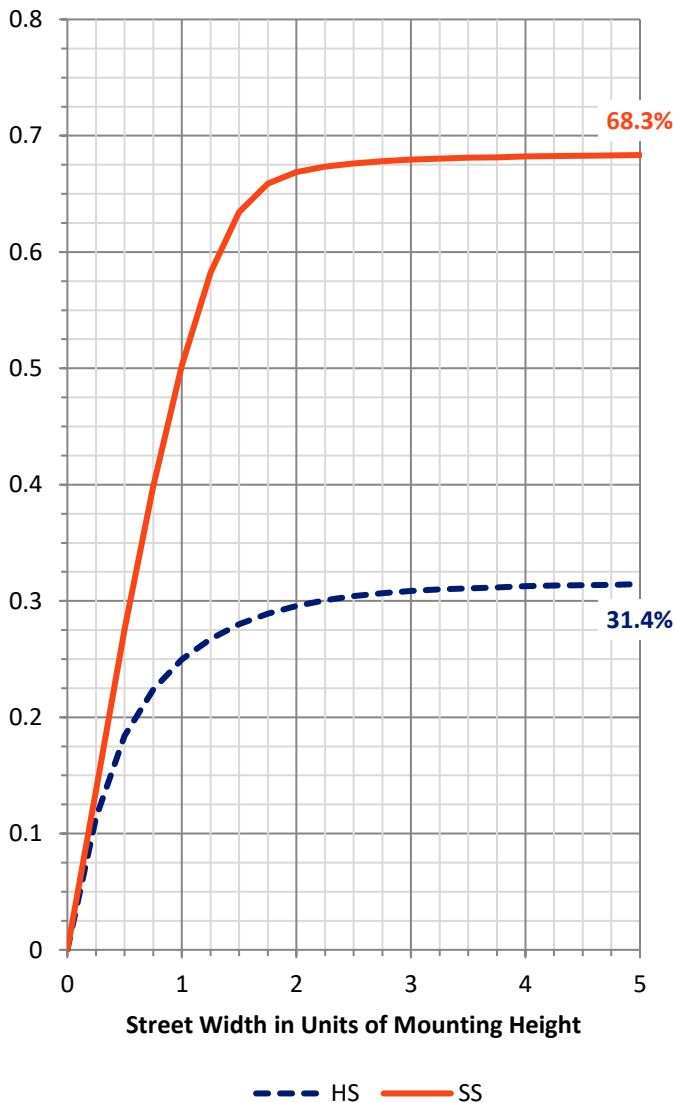
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2600.0	0.0	2600.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	5604.8	0.0	5604.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	8204.8	0.0	8204.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.6	2.0
10°-20°	506.6	6.2
20°-30°	895.5	10.9
30°-40°	1345.0	16.4
40°-50°	1845.9	22.5
50°-60°	2199.1	26.8
60°-70°	941.1	11.5
70°-80°	266.3	3.2
80°-90°	44.8	0.5
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°	8204.8	100.0
0°-180°	8204.8	100.0

**Coefficient of Utilization**

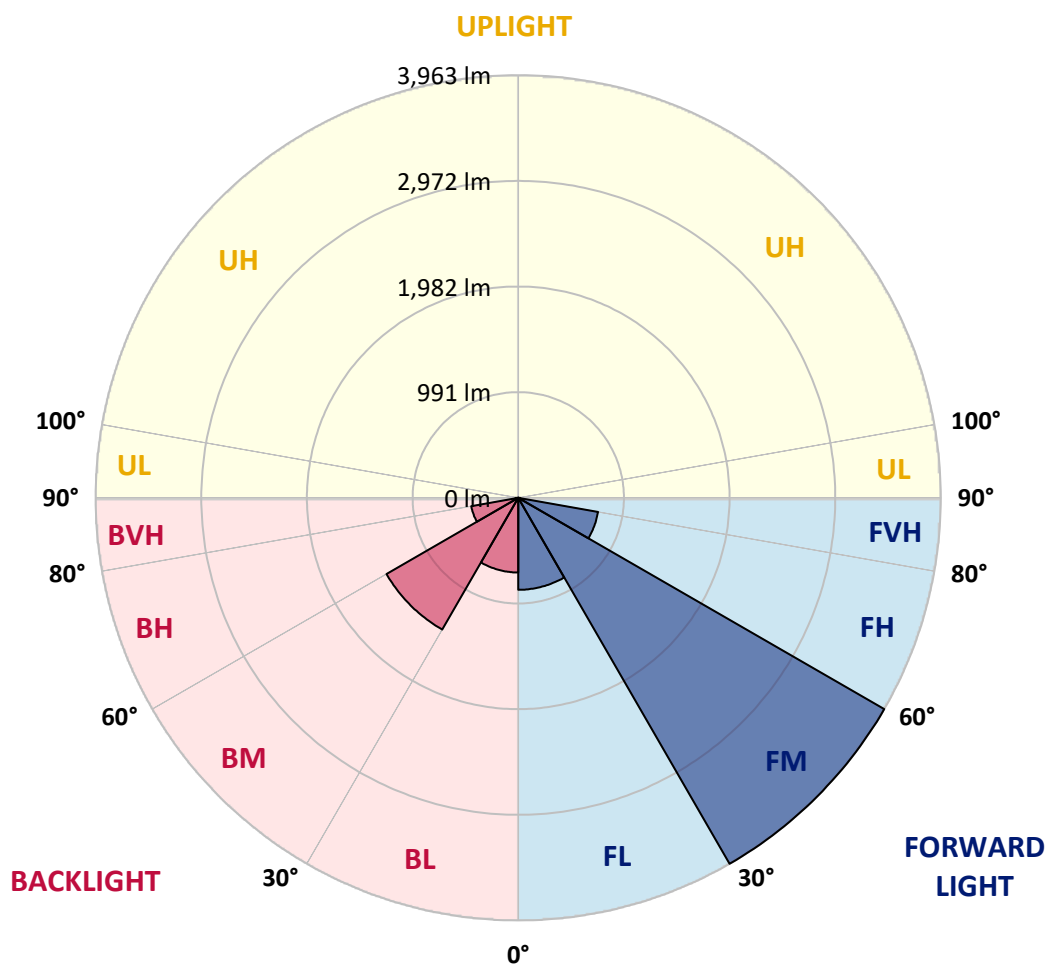


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.6	10.5			
FM (30°-60°)	3963.1	48.3			
FH (60°-80°)	760.1	9.3			G1/1800
FVH (80°-90°)	19.0	0.2			G1/100
BL (0°-30°)	700.0	8.5	B2/1000		
BM (30°-60°)	1426.8	17.4	B2/2500		
BH (60°-80°)	447.3	5.5	B1/500		G1/500
BVH (80°-90°)	25.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1
2.5°	1641.8	1638.7	1636.6	1653.3	1647.0	1648.1	1641.8	1648.1	1652.3	1642.9	1656.4
5°	1638.7	1648.1	1639.7	1645.0	1658.5	1654.3	1658.5	1671.2	1668.0	1664.8	1660.6
7.5°	1668.0	1669.0	1675.3	1677.4	1681.6	1677.4	1683.7	1695.2	1692.0	1674.3	1676.4
10°	1709.8	1711.9	1712.9	1724.5	1731.8	1732.9	1725.6	1715.1	1714.0	1738.1	1721.4
12.5°	1757.9	1752.7	1765.3	1769.5	1777.9	1787.3	1796.7	1774.7	1788.3	1789.4	1769.5
15°	1828.1	1833.3	1818.7	1818.7	1821.8	1822.9	1849.0	1838.5	1836.4	1825.0	1833.3
17.5°	1932.7	1897.1	1896.1	1881.5	1879.4	1887.7	1897.1	1905.5	1933.8	1910.8	1865.8
20°	2009.1	2017.5	1987.1	1969.4	1972.5	1991.3	1981.9	2019.6	2039.4	2001.7	1957.8
22.5°	2144.1	2115.9	2123.2	2083.4	2086.5	2106.5	2105.4	2144.1	2155.6	2095.9	2032.1
25°	2235.1	2227.8	2234.1	2202.7	2206.9	2222.6	2247.7	2311.5	2292.7	2226.8	2079.2
27.5°	2368.0	2353.4	2348.2	2336.6	2332.4	2374.3	2403.6	2471.6	2458.0	2361.8	2163.0
30°	2504.1	2494.7	2499.9	2452.8	2469.5	2558.5	2566.8	2660.0	2653.7	2484.1	2256.1
32.5°	2598.3	2603.5	2612.9	2586.7	2661.0	2732.2	2760.4	2866.1	2871.3	2694.5	2436.0
35°	2750.0	2732.2	2737.4	2767.7	2802.3	2932.1	2978.1	3048.2	3092.1	2915.3	2608.7
37.5°	2845.2	2864.0	2842.1	2890.2	2980.2	3136.1	3178.0	3250.1	3296.2	3133.0	2844.2
40°	2993.8	2963.4	2979.2	3013.6	3105.7	3308.7	3297.2	3371.6	3386.2	3318.2	3063.8
42.5°	3153.9	3139.2	3117.3	3195.7	3273.2	3420.7	3443.7	3409.2	3483.5	3499.2	3377.8
45°	3345.3	3363.2	3366.3	3368.4	3436.4	3565.1	3533.7	3503.4	3589.2	3703.3	3572.4
47.5°	3523.3	3466.8	3507.6	3564.1	3660.4	3661.4	3698.0	3625.8	3716.9	3818.3	3748.3
50°	3582.9	3555.7	3610.1	3716.9	3865.4	3881.1	3885.3	3782.7	3829.8	3910.4	3808.9
52.5°	3559.9	3550.4	3689.6	3855.0	4072.6	4152.2	4173.0	4046.5	4072.6	4036.0	3942.9
55°	3450.0	3478.3	3618.5	3955.4	4289.3	4535.2	4574.9	4414.8	4248.4	4276.7	4174.1
56°	3299.3	3250.1	3407.1	3841.4	4279.8	4659.6	4692.1	4492.2	4379.3	4342.6	4172.0
57.5°	2799.2	2735.4	2941.5	3456.3	4042.3	4612.5	4636.6	4524.7	4357.2	4283.0	3867.5
60°	1638.7	1670.1	1931.7	2383.7	3118.3	3781.7	3862.3	3944.0	3831.9	3499.2	2878.7
62.5°	791.0	771.2	958.5	1366.6	1900.2	2414.1	2390.0	2619.1	2744.8	2486.2	1817.7
65°	414.4	412.3	523.2	746.1	1044.4	1268.2	1290.3	1413.7	1586.4	1280.8	922.9
67.5°	304.5	312.9	368.4	524.3	671.8	685.4	682.2	744.0	760.8	643.5	567.2
70°	238.6	242.8	283.6	398.7	500.1	447.8	438.4	445.7	494.9	515.9	490.8
72.5°	172.7	176.9	211.3	269.0	312.9	305.5	311.8	352.6	413.4	435.3	409.1
75°	115.1	118.2	137.1	164.2	185.2	199.9	211.3	258.4	315.0	327.5	315.0
77.5°	79.6	82.7	95.2	116.1	118.2	127.7	131.9	153.8	188.4	204.0	195.7
80°	45.0	45.0	51.3	59.6	73.3	85.8	87.9	105.7	121.4	131.9	134.0
82.5°	20.9	22.0	27.2	36.6	48.1	59.6	61.7	73.3	84.8	95.2	98.4
85°	10.4	11.5	15.7	22.0	29.3	35.6	34.6	35.6	37.7	35.6	36.6
87.5°	3.1	3.1	4.2	5.2	4.2	5.2	5.2	6.3	7.3	8.4	9.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1	1648.1
2.5°	1657.5	1660.6	1639.7	1659.6	1652.3	1651.2	1665.9	1663.8	1669.0	1666.9	1654.3
5°	1658.5	1651.2	1673.2	1653.3	1662.7	1682.6	1669.0	1700.4	1684.7	1695.2	1672.2
7.5°	1691.0	1693.1	1688.9	1697.3	1693.1	1702.5	1695.2	1702.5	1690.0	1691.0	1711.9
10°	1719.3	1712.9	1720.3	1709.8	1717.2	1714.0	1697.3	1692.0	1696.2	1691.0	1704.6
12.5°	1771.6	1760.0	1754.8	1742.3	1733.9	1702.5	1676.4	1661.7	1681.6	1684.7	1678.5
15°	1825.0	1826.0	1801.9	1773.7	1721.4	1674.3	1680.6	1685.8	1685.8	1694.1	1678.5
17.5°	1858.4	1858.4	1836.4	1780.0	1726.6	1699.4	1693.1	1676.4	1661.7	1659.6	1658.5
20°	1917.1	1899.2	1849.0	1778.9	1724.5	1711.9	1664.8	1625.1	1594.7	1584.3	1583.2
22.5°	1984.0	1939.0	1868.9	1781.0	1721.4	1703.5	1615.6	1556.0	1501.6	1478.6	1481.7
25°	2045.7	1973.5	1880.4	1771.6	1709.8	1624.1	1525.7	1443.0	1386.5	1367.6	1358.2
27.5°	2088.6	2010.2	1880.4	1780.0	1666.9	1535.1	1434.7	1328.9	1279.7	1267.2	1269.3
30°	2146.1	2056.2	1912.9	1762.1	1581.2	1419.9	1299.7	1230.6	1201.3	1190.8	1198.2
32.5°	2281.2	2176.5	1957.8	1719.3	1479.7	1304.9	1207.6	1168.8	1125.9	1105.0	1097.7
35°	2427.6	2290.5	2001.7	1647.0	1365.5	1200.2	1139.6	1104.0	1052.7	1029.6	1033.8
37.5°	2634.9	2437.0	2004.9	1527.8	1242.1	1141.7	1086.2	1030.7	988.8	953.3	942.8
40°	2914.2	2637.0	1997.6	1402.2	1142.7	1072.5	1031.7	962.7	915.6	890.5	895.7
42.5°	3160.1	2871.3	1967.3	1259.9	1052.7	1025.5	979.4	911.4	865.4	839.2	837.1
45°	3367.4	3044.0	1909.7	1138.5	977.3	973.1	919.8	867.5	830.8	806.8	817.3
47.5°	3558.9	3183.2	1822.9	1017.1	908.3	916.7	865.4	832.9	809.9	787.9	786.9
50°	3627.9	3181.1	1746.4	916.7	852.9	848.7	846.6	812.0	787.9	769.1	777.5
52.5°	3743.0	3216.7	1663.8	847.6	802.6	803.7	811.0	785.8	758.7	747.1	757.6
55°	3908.4	3221.9	1481.7	767.0	760.8	768.1	768.1	751.3	728.3	718.9	713.7
56°	3773.3	3065.9	1328.9	746.1	739.8	739.8	759.7	740.8	712.6	705.3	699.0
57.5°	3480.4	2686.2	1112.3	721.0	711.6	726.2	736.6	716.8	690.6	680.2	686.4
60°	2400.5	1817.7	836.1	666.6	666.6	690.6	699.0	669.7	658.2	657.2	648.7
62.5°	1401.1	1059.0	654.0	617.4	619.5	639.3	645.6	628.9	614.3	632.0	640.4
65°	742.9	632.0	560.9	565.1	566.1	581.8	609.0	608.0	606.9	612.2	613.2
67.5°	537.8	525.3	509.6	505.4	507.5	519.0	546.2	567.2	566.1	553.5	544.1
70°	479.3	461.5	452.0	453.1	444.7	458.3	480.3	493.9	469.9	455.1	448.9
72.5°	398.7	393.4	387.2	388.2	371.5	368.4	343.2	343.2	336.9	332.8	340.1
75°	304.5	302.4	305.5	300.3	282.5	263.7	249.0	235.5	214.5	206.1	201.9
77.5°	192.5	198.8	206.1	194.6	187.3	173.7	159.0	145.4	128.7	119.3	119.3
80°	130.8	136.1	141.3	139.2	130.8	118.2	106.7	92.1	80.6	73.3	72.2
82.5°	99.4	103.6	110.9	102.5	94.2	83.7	74.3	63.8	53.4	45.0	45.0
85°	35.6	40.8	45.0	49.2	52.3	53.4	46.0	37.7	30.4	24.1	23.0
87.5°	9.4	10.4	11.5	10.4	10.4	10.4	11.5	10.4	9.4	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)