

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: P646804

Luminaire Tested: **GALN-SA2C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6732.2 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

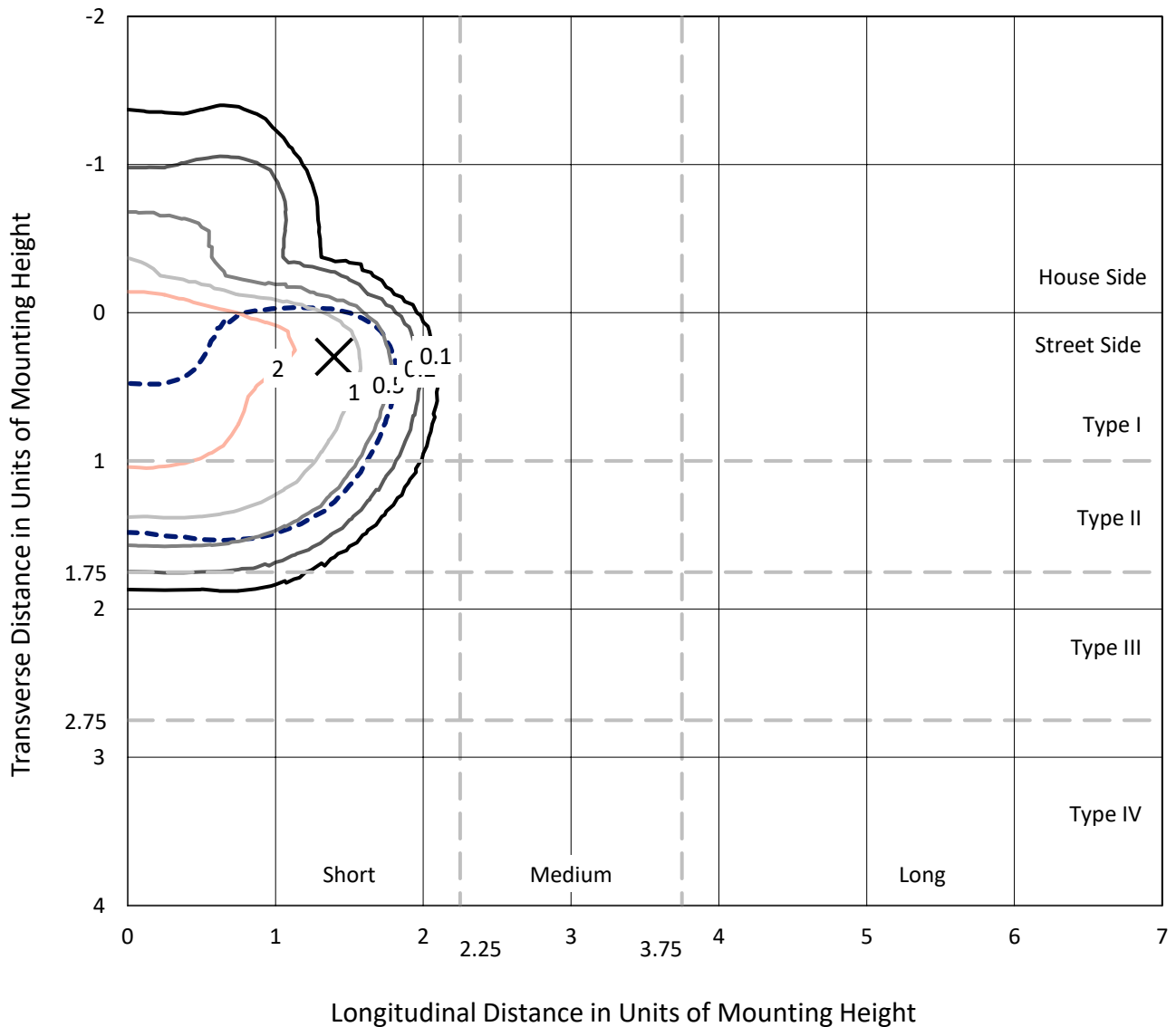
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

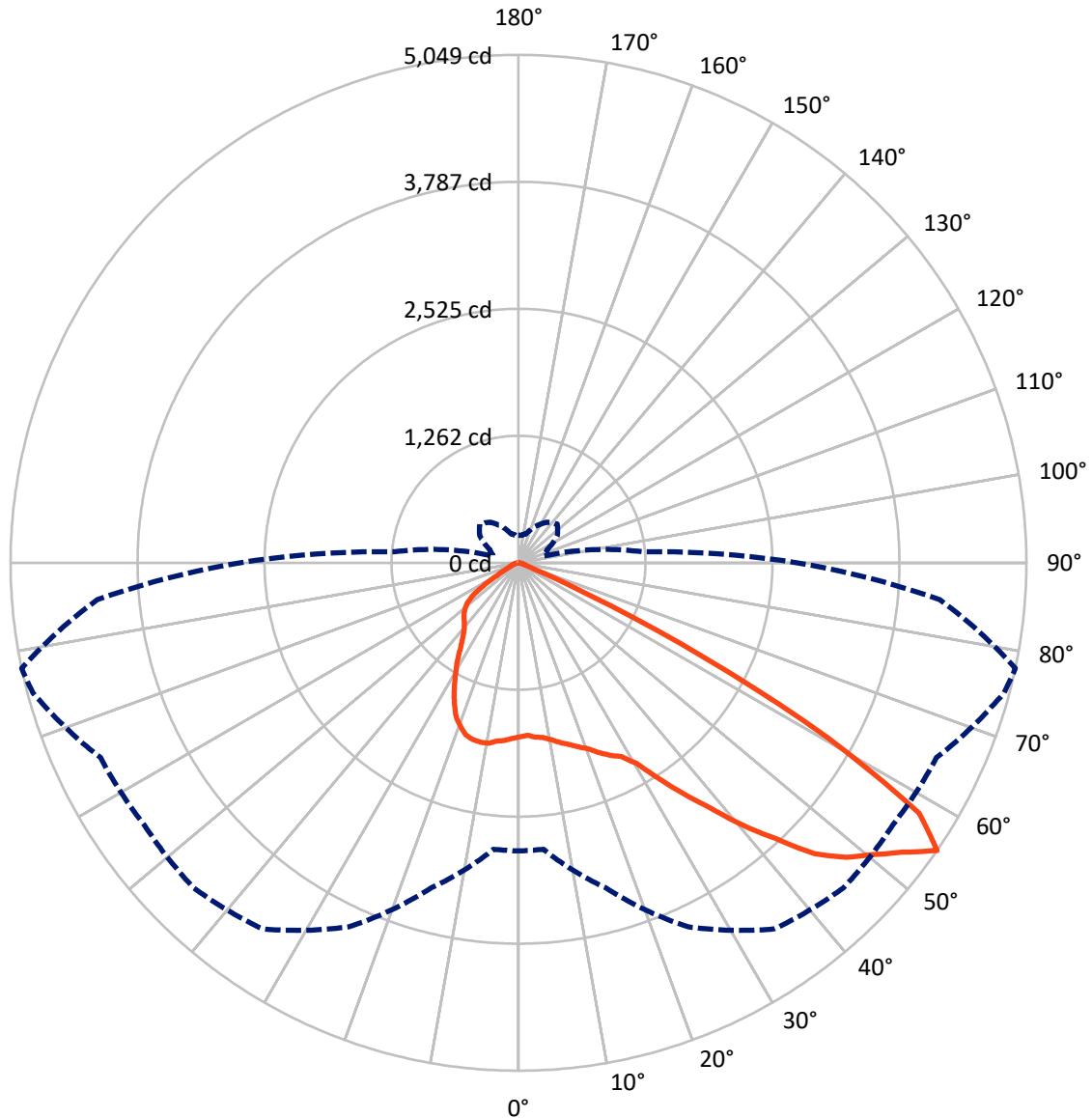
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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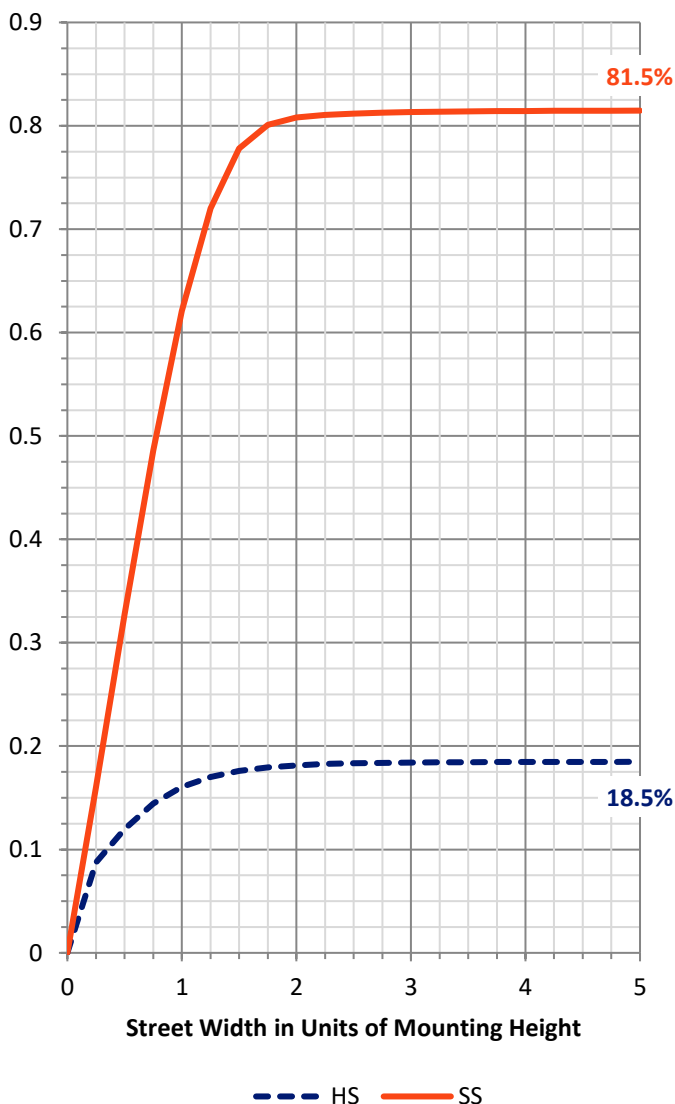
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1250.4	0.0	1250.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	5481.8	0.0	5481.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	6732.2	0.0	6732.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.3	2.3
10°-20°	408.5	6.1
20°-30°	716.0	10.6
30°-40°	1180.5	17.5
40°-50°	1717.8	25.5
50°-60°	1946.4	28.9
60°-70°	556.5	8.3
70°-80°	43.2	0.6
80°-90°	9.0	0.1
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°	6732.2	100.0
0°-180°	6732.2	100.0

**Coefficient of Utilization**

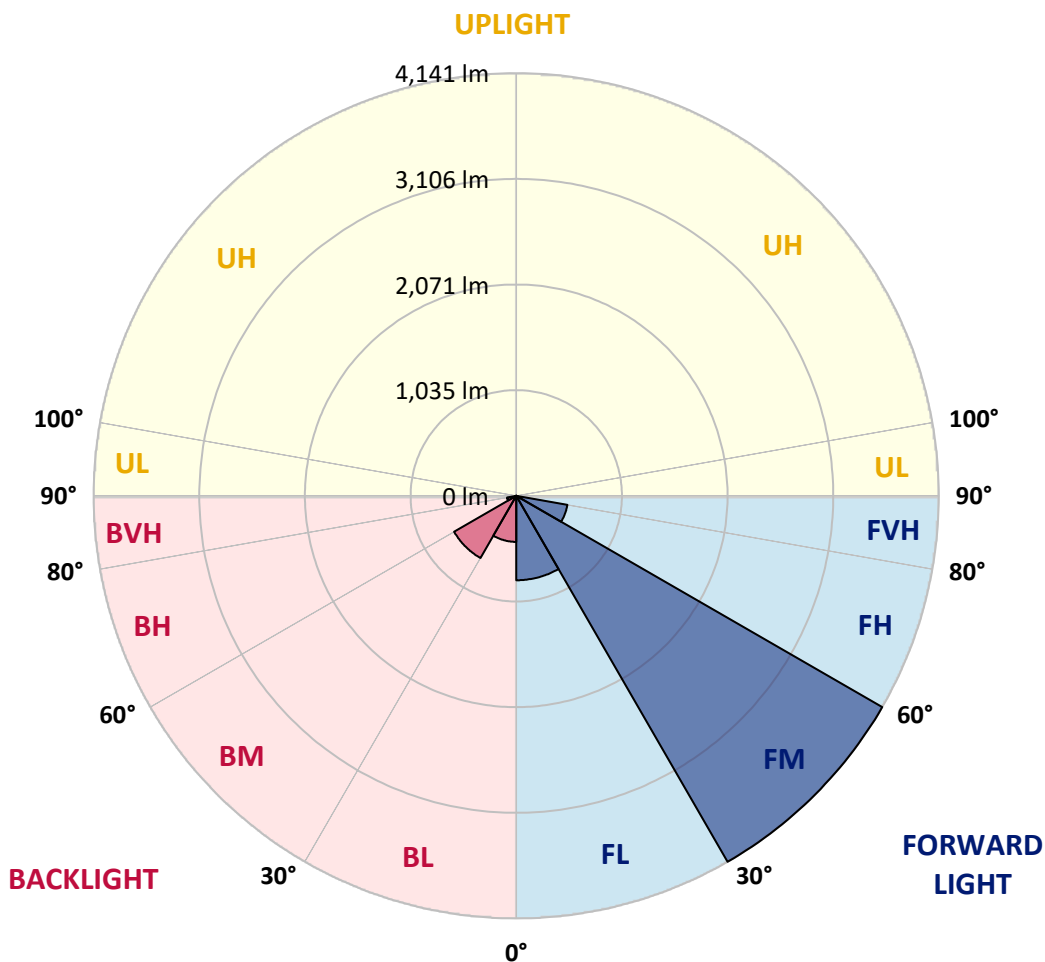


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.6	12.3			
FM (30°-60°)	4141.4	61.5			
FH (60°-80°)	508.5	7.6			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	451.2	6.7	B1/500		
BM (30°-60°)	703.4	10.4	B1/1000		
BH (60°-80°)	91.3	1.4	B0/110		G0/110
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1627.3	1643.0	1645.4	1664.7	1663.5	1696.0	1705.6	1706.8	1728.5	1717.6	1745.3
5°	1581.6	1573.2	1569.6	1603.3	1612.9	1641.8	1665.8	1680.3	1724.9	1740.5	1769.3
7.5°	1540.7	1540.7	1543.1	1573.2	1569.6	1606.9	1632.2	1676.7	1741.7	1754.9	1789.9
10°	1500.9	1486.5	1504.5	1535.9	1562.3	1579.2	1632.2	1674.3	1750.1	1788.6	1836.8
12.5°	1480.5	1487.7	1490.1	1513.0	1541.9	1592.5	1621.4	1691.1	1810.3	1833.2	1884.9
15°	1609.3	1594.8	1560.0	1539.5	1563.6	1587.6	1659.9	1730.9	1841.6	1874.1	1931.9
17.5°	1758.5	1746.5	1717.6	1662.2	1608.1	1652.6	1709.2	1774.2	1875.3	1923.4	2008.9
20°	1953.5	1934.2	1905.4	1797.1	1750.1	1702.0	1762.1	1839.2	1930.6	1974.0	2061.9
22.5°	2185.8	2185.8	2120.8	1989.7	1892.1	1846.4	1871.7	1916.2	1992.0	2051.1	2137.7
25°	2427.8	2420.6	2361.6	2225.6	2060.7	2006.5	2035.4	2066.7	2087.2	2119.7	2177.4
27.5°	2704.6	2662.5	2587.9	2437.4	2291.8	2187.1	2218.3	2190.7	2165.4	2182.2	2265.3
30°	2892.4	2918.9	2823.8	2679.3	2542.2	2425.3	2431.4	2407.3	2291.8	2315.8	2365.2
32.5°	3087.4	3104.2	3051.3	2971.8	2834.6	2698.6	2649.3	2628.8	2542.2	2553.0	2504.8
35°	3249.8	3282.4	3235.4	3200.5	3160.8	3051.3	2915.3	2981.4	2841.8	2815.4	2690.2
37.5°	3399.2	3389.5	3444.9	3408.8	3400.3	3323.3	3174.0	3187.3	3093.4	3087.4	2943.0
40°	3532.7	3535.2	3611.0	3627.8	3594.1	3456.9	3240.2	3345.0	3420.8	3428.1	3242.6
42.5°	3643.5	3676.0	3740.9	3876.9	3826.4	3597.7	3308.9	3423.2	3704.8	3749.4	3526.7
45°	3739.8	3806.0	3886.6	4008.2	3979.3	3797.6	3479.8	3584.5	4008.2	4124.9	3793.9
47.5°	3745.8	3832.5	3920.3	4100.9	4137.0	3904.7	3656.7	3839.7	4248.9	4375.3	3988.9
50°	3721.7	3767.5	3943.2	4139.4	4221.2	4079.2	3904.7	4053.9	4482.4	4561.8	4087.7
52.5°	3436.4	3471.4	3824.0	4175.5	4372.9	4276.6	4233.3	4352.5	4720.8	4779.7	4180.3
55°	2864.7	2858.7	3343.8	3993.8	4442.7	4569.1	4542.6	4584.7	4996.4	5049.3	4203.1
57.5°	1959.5	2069.1	2488.0	3325.7	4015.4	4500.4	4528.2	4458.3	4675.0	4695.5	3664.0
60°	1056.8	1102.5	1439.5	2219.6	3057.3	3667.6	3739.8	3613.4	3596.6	3538.8	2615.5
62.5°	420.1	442.9	634.3	1098.9	1665.8	2229.2	2384.5	2332.7	2221.9	2070.3	1354.1
65°	199.8	214.2	315.4	514.0	739.1	929.2	1084.5	1132.6	835.3	752.3	446.5
67.5°	136.0	146.8	229.9	293.7	263.6	275.6	358.7	333.4	196.2	167.3	123.9
70°	103.5	110.7	184.2	199.8	117.9	83.1	92.7	86.7	80.6	81.8	80.6
72.5°	73.4	79.5	134.8	117.9	51.8	38.5	49.3	59.0	59.0	59.0	57.8
75°	44.6	50.6	78.2	45.7	20.4	20.4	31.3	39.7	42.1	43.3	41.0
77.5°	22.9	28.9	26.5	13.2	13.2	15.7	22.9	27.7	30.1	30.1	28.9
80°	4.8	4.8	4.8	7.2	13.2	16.8	22.9	25.3	28.9	28.9	26.5
82.5°	0.0	1.2	3.6	7.2	12.1	15.7	21.7	25.3	28.9	30.1	27.7
85°	0.0	1.2	2.4	4.8	8.5	9.6	8.5	7.2	7.2	7.2	7.2
87.5°	0.0	0.0	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1747.7	1751.3	1745.3	1744.1	1739.3	1753.8	1718.8	1710.4	1732.1	1711.6	1716.4
5°	1770.6	1779.0	1768.2	1750.1	1723.6	1682.7	1647.8	1602.1	1580.4	1564.7	1562.3
7.5°	1787.4	1793.5	1782.7	1724.9	1645.4	1541.9	1464.8	1408.3	1363.8	1350.5	1328.8
10°	1856.0	1857.3	1803.1	1675.5	1520.2	1384.2	1266.3	1179.6	1135.0	1107.4	1095.3
12.5°	1901.8	1899.4	1789.9	1578.0	1371.0	1190.4	1055.6	950.9	910.0	896.7	888.3
15°	1959.5	1946.3	1758.5	1478.1	1178.4	983.4	861.8	789.6	786.0	777.6	786.0
17.5°	2005.3	1968.0	1712.8	1296.3	994.3	810.1	730.6	735.5	745.1	753.5	754.7
20°	2080.0	2002.9	1608.1	1137.5	823.3	694.5	693.3	715.0	739.1	748.7	758.3
22.5°	2136.5	2017.3	1496.2	967.7	683.7	647.5	668.1	700.6	718.6	728.2	742.7
25°	2156.9	1977.6	1346.9	798.0	616.3	625.9	657.2	678.9	701.7	712.5	706.6
27.5°	2177.4	1957.2	1168.8	657.2	580.1	611.4	637.9	659.6	666.8	681.3	690.9
30°	2226.8	1886.2	1008.7	568.1	562.1	601.8	621.1	628.3	647.5	656.0	656.0
32.5°	2266.5	1858.5	839.0	526.0	559.7	606.7	609.0	609.0	611.4	605.4	603.1
35°	2348.4	1763.4	687.3	500.7	558.5	607.8	613.9	593.4	538.0	516.4	510.4
37.5°	2449.5	1702.0	575.3	494.7	566.9	622.3	632.0	554.9	482.6	447.8	441.8
40°	2572.2	1658.6	501.9	492.3	586.2	656.0	627.1	524.8	430.9	380.4	378.0
42.5°	2715.4	1618.9	452.6	491.1	610.3	690.9	622.3	499.6	378.0	344.3	349.1
45°	2829.8	1597.2	418.9	482.6	618.6	711.4	625.9	455.0	356.3	334.7	337.0
47.5°	2918.9	1551.5	391.2	468.2	617.5	718.6	593.4	436.9	345.5	351.5	357.5
50°	2921.3	1490.1	356.3	436.9	599.4	705.3	556.1	420.1	343.0	368.3	380.4
52.5°	2888.8	1403.4	319.0	392.4	557.3	659.6	522.4	412.9	332.2	329.8	344.3
55°	2773.2	1241.0	256.4	317.7	470.7	544.0	492.3	399.6	299.7	272.0	274.4
57.5°	2241.2	889.5	188.9	227.5	333.4	398.4	444.1	393.6	269.6	231.1	232.3
60°	1387.8	504.3	138.4	155.3	205.9	241.9	359.9	365.9	240.7	195.0	192.6
62.5°	712.5	249.2	107.1	109.5	126.4	142.0	246.7	306.9	217.8	185.3	185.3
65°	238.3	122.8	93.9	84.3	84.3	87.9	149.2	213.1	184.2	155.3	155.3
67.5°	102.3	91.5	81.8	73.4	67.4	63.8	84.3	123.9	137.2	117.9	113.1
70°	79.5	77.0	71.0	61.4	52.9	48.2	49.3	63.8	78.2	75.8	73.4
72.5°	59.0	59.0	56.6	48.2	41.0	34.9	32.5	33.7	37.3	38.5	39.7
75°	41.0	42.1	42.1	37.3	30.1	25.3	21.7	18.1	14.4	12.1	10.8
77.5°	27.7	28.9	31.3	27.7	22.9	16.8	13.2	9.6	6.0	2.4	2.4
80°	24.0	27.7	30.1	27.7	24.0	18.1	13.2	7.2	3.6	0.0	0.0
82.5°	25.3	27.7	31.3	26.5	22.9	16.8	13.2	8.5	3.6	1.2	0.0
85°	6.0	6.0	7.2	8.5	10.8	12.1	9.6	6.0	3.6	1.2	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0
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)