

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: P647849

Luminaire Tested: **GALN-SA3A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647849  
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-SA3A-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA 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: 6500.5 lumens  
Efficiency: N/A  
Efficacy: 69.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

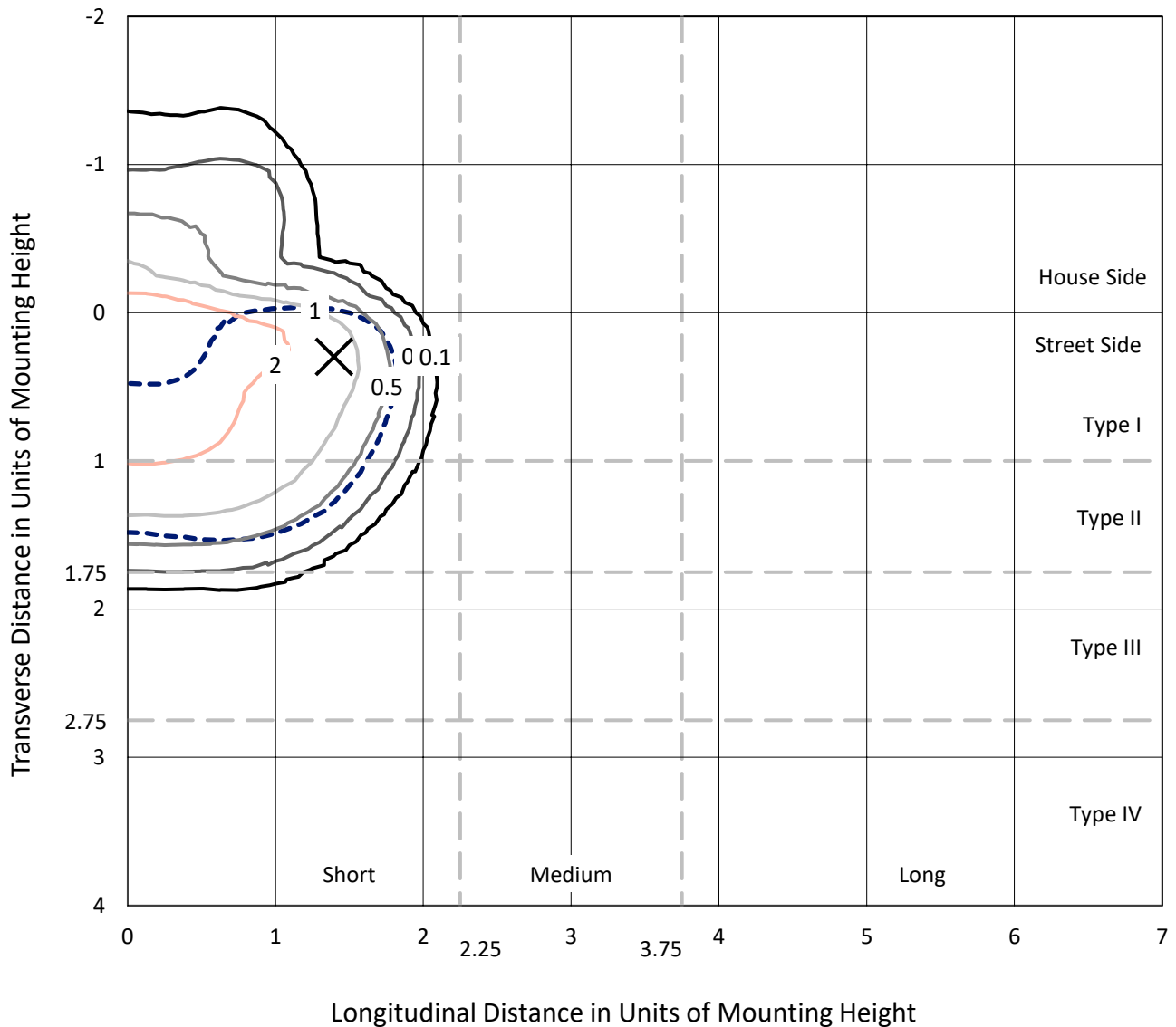
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

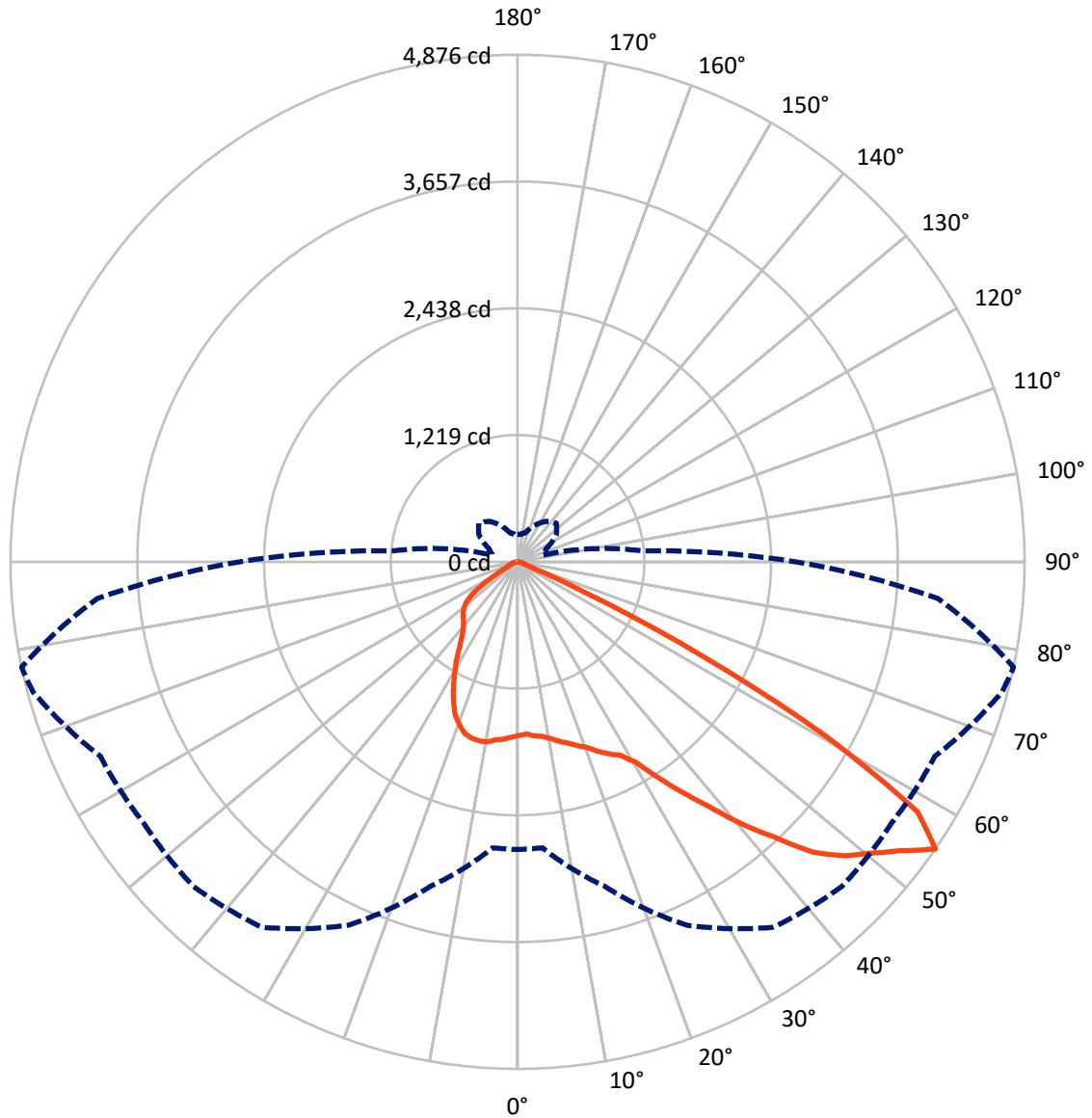
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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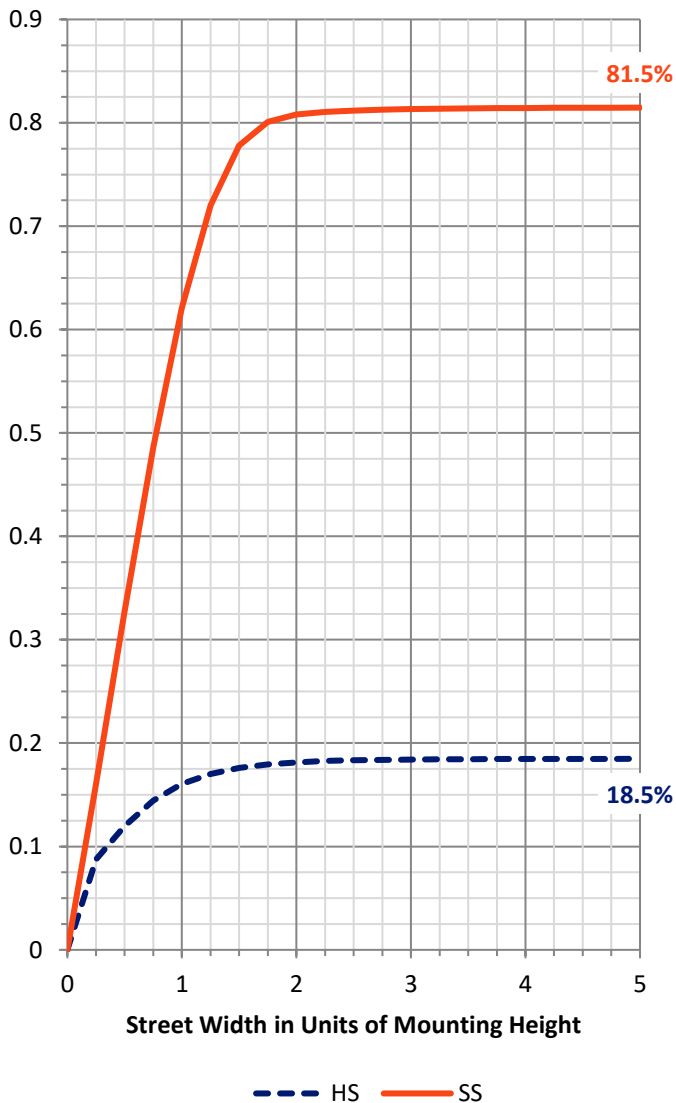
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1207.4	0.0	1207.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	5293.1	0.0	5293.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	6500.5	0.0	6500.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.0	2.3
10°-20°	394.4	6.1
20°-30°	691.3	10.6
30°-40°	1139.9	17.5
40°-50°	1658.7	25.5
50°-60°	1879.4	28.9
60°-70°	537.4	8.3
70°-80°	41.7	0.6
80°-90°	8.7	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°	6500.5	100.0
0°-180°	6500.5	100.0

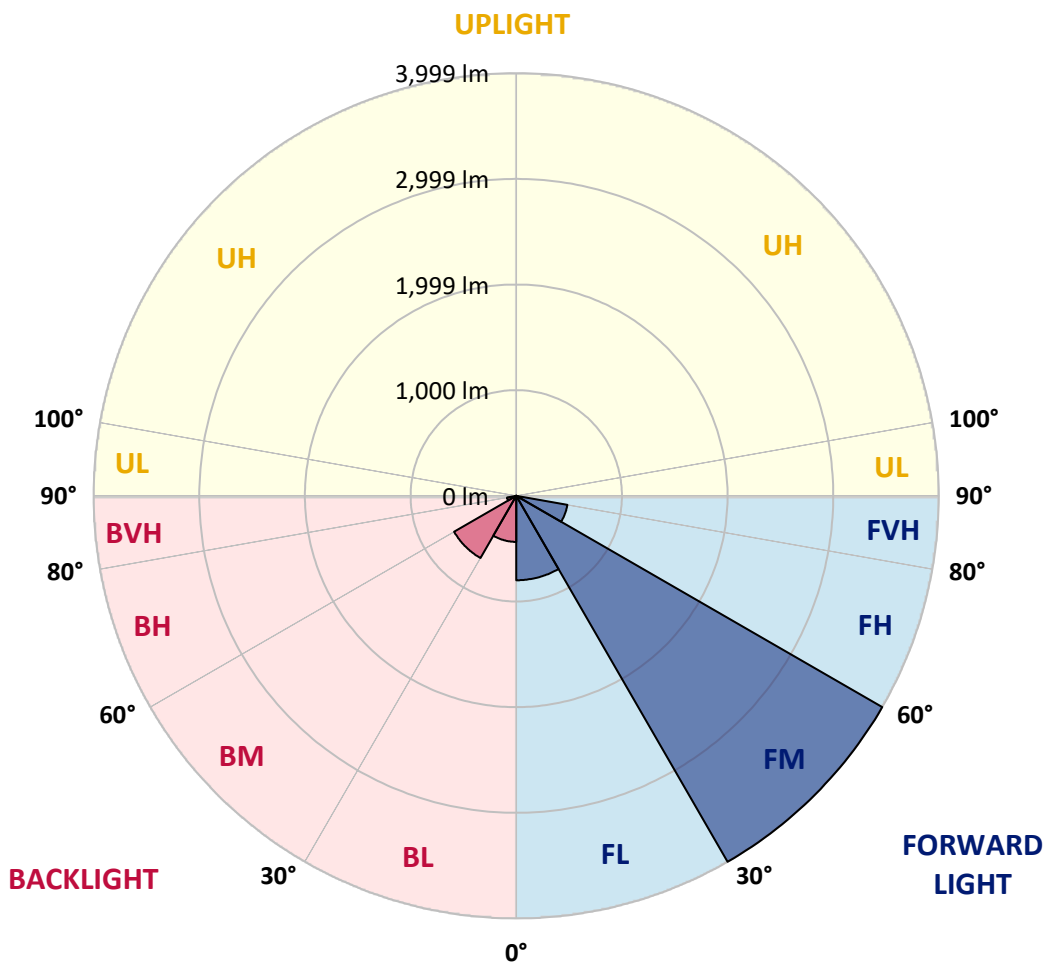


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.1	12.3			
FM (30°-60°)	3998.8	61.5			
FH (60°-80°)	491.0	7.6			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	435.6	6.7	B1/500		
BM (30°-60°)	679.2	10.4	B1/1000		
BH (60°-80°)	88.1	1.4	B0/110		G0/110
BVH (80°-90°)	4.5	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°	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1571.3	1586.4	1588.8	1607.3	1606.2	1637.6	1646.9	1648.1	1669.0	1658.5	1685.3
5°	1527.2	1519.0	1515.6	1548.1	1557.4	1585.3	1608.5	1622.5	1665.4	1680.6	1708.4
7.5°	1487.6	1487.6	1490.0	1519.0	1515.6	1551.6	1575.9	1619.0	1681.7	1694.5	1728.2
10°	1449.3	1435.3	1452.8	1483.0	1508.5	1524.8	1575.9	1616.7	1689.9	1727.1	1773.6
12.5°	1429.5	1436.5	1438.8	1460.9	1488.8	1537.7	1565.5	1632.9	1748.0	1770.0	1820.0
15°	1553.9	1539.9	1506.3	1486.4	1509.7	1533.0	1602.7	1671.2	1778.2	1809.6	1865.3
17.5°	1698.0	1686.3	1658.5	1605.0	1552.7	1595.8	1650.3	1713.1	1810.8	1857.2	1939.7
20°	1886.2	1867.7	1839.8	1735.2	1689.9	1643.4	1701.5	1775.8	1864.2	1906.1	1990.9
22.5°	2110.6	2110.6	2047.9	1921.2	1827.0	1782.8	1807.2	1850.2	1923.4	1980.4	2064.1
25°	2344.2	2337.3	2280.3	2148.9	1989.8	1937.5	1965.3	1995.6	2015.3	2046.7	2102.4
27.5°	2611.5	2570.8	2498.8	2353.5	2212.8	2111.8	2142.0	2115.3	2090.8	2107.1	2187.3
30°	2792.8	2818.4	2726.6	2587.1	2454.6	2341.9	2347.7	2324.4	2212.8	2236.1	2283.8
32.5°	2981.1	2997.4	2946.2	2869.5	2737.1	2605.7	2558.1	2538.3	2454.6	2465.0	2418.6
35°	3138.0	3169.3	3124.0	3090.3	3052.0	2946.2	2814.9	2878.9	2744.0	2718.4	2597.6
37.5°	3282.1	3272.8	3326.3	3291.4	3283.3	3208.9	3064.7	3077.6	2986.9	2981.1	2841.7
40°	3411.1	3413.4	3486.7	3502.9	3470.4	3337.9	3128.7	3229.8	3303.0	3310.0	3131.1
42.5°	3518.0	3549.4	3612.2	3743.5	3694.7	3473.9	3195.0	3305.4	3577.3	3620.4	3405.3
45°	3611.0	3674.9	3752.8	3870.2	3842.3	3666.8	3360.0	3461.1	3870.2	3983.0	3663.3
47.5°	3616.8	3700.5	3785.3	3959.7	3994.6	3770.2	3530.9	3707.5	4102.6	4224.7	3851.6
50°	3593.6	3637.7	3807.4	3996.9	4075.9	3938.8	3770.2	3914.4	4328.1	4404.8	3946.9
52.5°	3318.1	3351.9	3692.4	4031.7	4222.3	4129.4	4087.5	4202.6	4558.2	4615.2	4036.4
55°	2766.1	2760.3	3228.6	3856.3	4289.7	4411.8	4386.2	4426.9	4824.4	4875.5	4058.4
57.5°	1892.1	1997.8	2402.3	3211.2	3877.2	4345.6	4372.3	4304.9	4514.1	4533.8	3537.8
60°	1020.4	1064.6	1390.0	2143.1	2952.1	3541.3	3611.0	3489.0	3472.7	3416.9	2525.5
62.5°	405.6	427.7	612.5	1061.1	1608.5	2152.5	2302.3	2252.4	2145.5	1999.0	1307.5
65°	192.9	206.9	304.5	496.3	713.6	897.2	1047.2	1093.6	806.6	726.4	431.2
67.5°	131.3	141.8	222.0	283.6	254.6	266.1	346.3	322.0	189.4	161.5	119.7
70°	100.0	107.0	177.8	192.9	113.9	80.2	89.5	83.7	77.8	79.0	77.8
72.5°	70.9	76.7	130.1	113.9	50.0	37.2	47.7	56.9	56.9	56.9	55.7
75°	43.0	48.8	75.6	44.2	19.7	19.7	30.2	38.4	40.7	41.8	39.5
77.5°	22.1	27.9	25.6	12.8	12.8	15.1	22.1	26.7	29.0	29.0	27.9
80°	4.6	4.6	4.6	7.0	12.8	16.3	22.1	24.4	27.9	27.9	25.6
82.5°	0.0	1.2	3.5	7.0	11.6	15.1	20.9	24.4	27.9	29.0	26.7
85°	0.0	1.2	2.3	4.6	8.1	9.3	8.1	7.0	7.0	7.0	7.0
87.5°	0.0	0.0	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3
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°	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1687.5	1691.0	1685.3	1684.1	1679.4	1693.4	1659.6	1651.5	1672.4	1652.7	1657.3
5°	1709.6	1717.7	1707.3	1689.9	1664.3	1624.8	1591.1	1546.9	1526.0	1510.9	1508.5
7.5°	1725.9	1731.7	1721.3	1665.4	1588.8	1488.8	1414.4	1359.8	1316.8	1304.0	1283.1
10°	1792.1	1793.3	1741.0	1617.8	1467.9	1336.6	1222.7	1139.0	1096.0	1069.3	1057.6
12.5°	1836.3	1834.0	1728.2	1523.6	1323.7	1149.4	1019.2	918.1	878.6	865.8	857.7
15°	1892.1	1879.3	1698.0	1427.2	1137.8	949.5	832.2	762.4	759.0	750.8	759.0
17.5°	1936.3	1900.3	1653.9	1251.7	960.0	782.1	705.5	710.1	719.4	727.6	728.7
20°	2008.3	1933.9	1552.7	1098.3	795.0	670.6	669.5	690.4	713.6	722.9	732.2
22.5°	2063.0	1947.9	1444.6	934.4	660.1	625.3	645.0	676.4	693.8	703.1	717.1
25°	2082.7	1909.5	1300.6	770.6	595.1	604.3	634.5	655.5	677.6	688.0	682.2
27.5°	2102.4	1889.8	1128.5	634.5	560.2	590.4	616.0	636.9	643.9	657.8	667.1
30°	2150.1	1821.2	974.0	548.6	542.8	581.1	599.7	606.7	625.3	633.4	633.4
32.5°	2188.5	1794.5	810.1	507.9	540.4	585.8	588.1	588.1	590.4	584.6	582.2
35°	2267.5	1702.6	663.6	483.5	539.3	586.9	592.7	573.0	519.5	498.6	492.8
37.5°	2365.1	1643.4	555.5	477.7	547.4	600.9	610.2	535.8	466.0	432.4	426.5
40°	2483.7	1601.5	484.7	475.4	566.0	633.4	605.5	506.8	416.1	367.2	365.0
42.5°	2622.0	1563.2	437.0	474.2	589.2	667.1	600.9	482.3	365.0	332.4	337.1
45°	2732.4	1542.3	404.4	466.0	597.4	686.8	604.3	439.3	344.1	323.1	325.4
47.5°	2818.4	1498.1	377.7	452.1	596.3	693.8	573.0	421.9	333.6	339.4	345.1
50°	2820.7	1438.8	344.1	421.9	578.8	681.1	537.0	405.6	331.2	355.6	367.2
52.5°	2789.4	1355.1	308.0	378.9	538.1	636.9	504.4	398.6	320.8	318.4	332.4
55°	2677.8	1198.2	247.6	306.9	454.5	525.3	475.4	385.9	289.4	262.7	265.0
57.5°	2164.1	858.9	182.4	219.6	322.0	384.7	428.8	380.1	260.3	223.2	224.3
60°	1340.0	486.9	133.7	149.9	198.7	233.6	347.5	353.3	232.5	188.3	186.0
62.5°	688.0	240.6	103.4	105.8	122.1	137.1	238.3	296.4	210.4	179.0	179.0
65°	230.1	118.5	90.7	81.4	81.4	84.9	144.2	205.7	177.8	149.9	149.9
67.5°	98.8	88.3	79.0	70.9	65.1	61.6	81.4	119.7	132.5	113.9	109.2
70°	76.7	74.4	68.6	59.3	51.1	46.5	47.7	61.6	75.6	73.2	70.9
72.5°	56.9	56.9	54.7	46.5	39.5	33.7	31.4	32.6	36.0	37.2	38.4
75°	39.5	40.7	40.7	36.0	29.0	24.4	20.9	17.5	13.9	11.6	10.5
77.5°	26.7	27.9	30.2	26.7	22.1	16.3	12.8	9.3	5.8	2.3	2.3
80°	23.3	26.7	29.0	26.7	23.3	17.5	12.8	7.0	3.5	0.0	0.0
82.5°	24.4	26.7	30.2	25.6	22.1	16.3	12.8	8.1	3.5	1.2	0.0
85°	5.8	5.8	7.0	8.1	10.5	11.6	9.3	5.8	3.5	1.2	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	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)