

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: P651809

Luminaire Tested: **GALN-SA3A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651809  
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-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 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: 6982 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

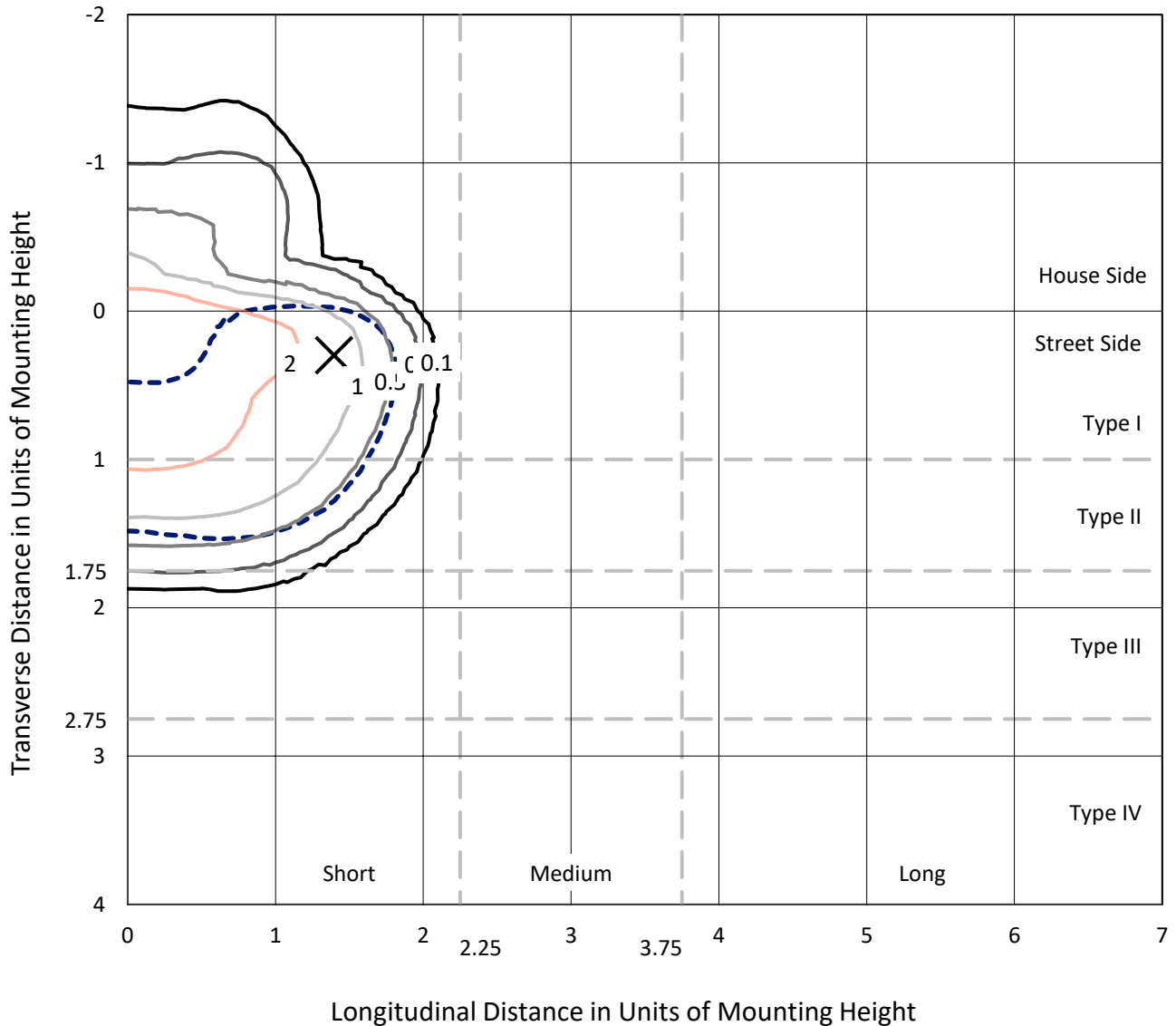
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

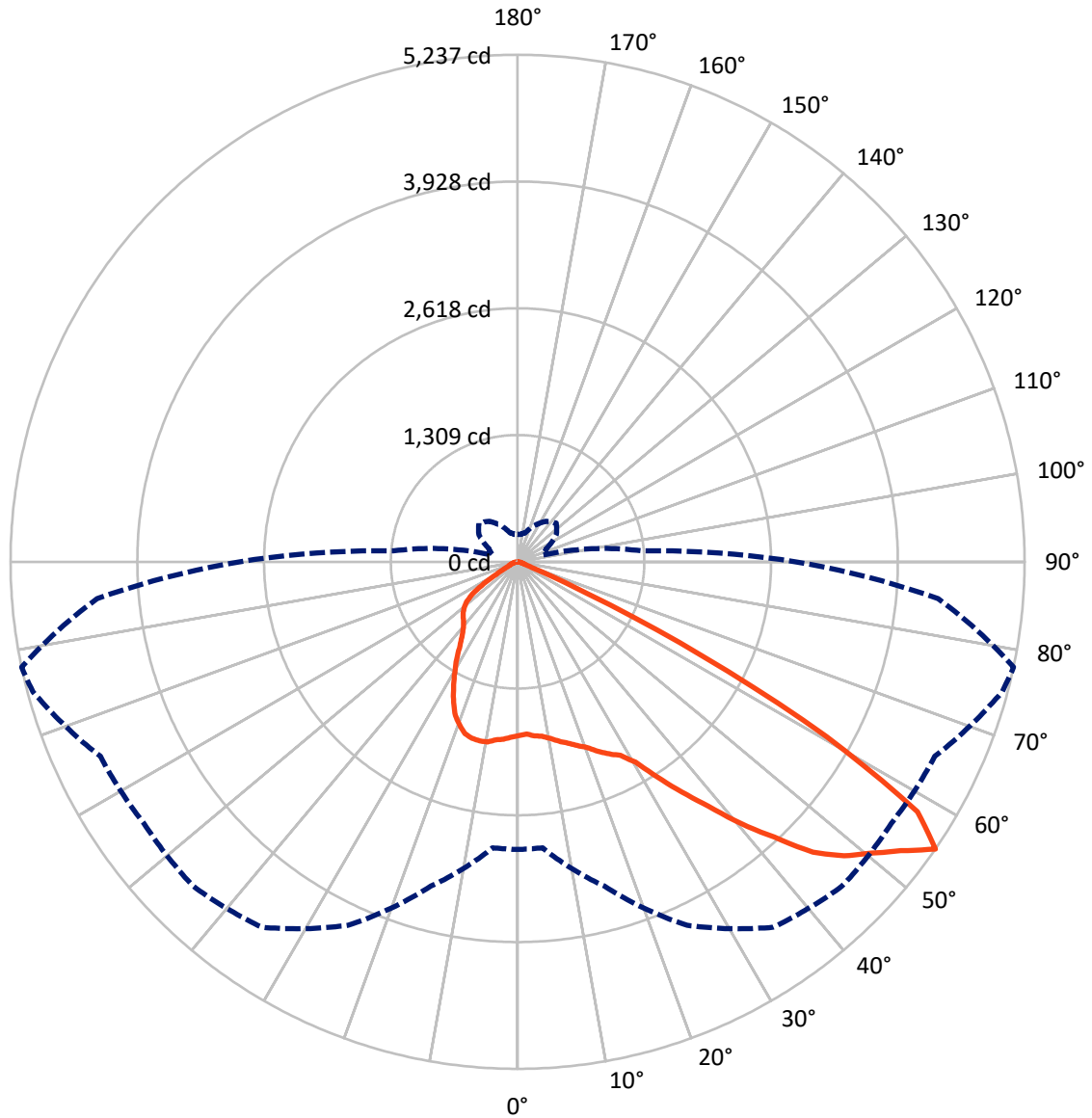
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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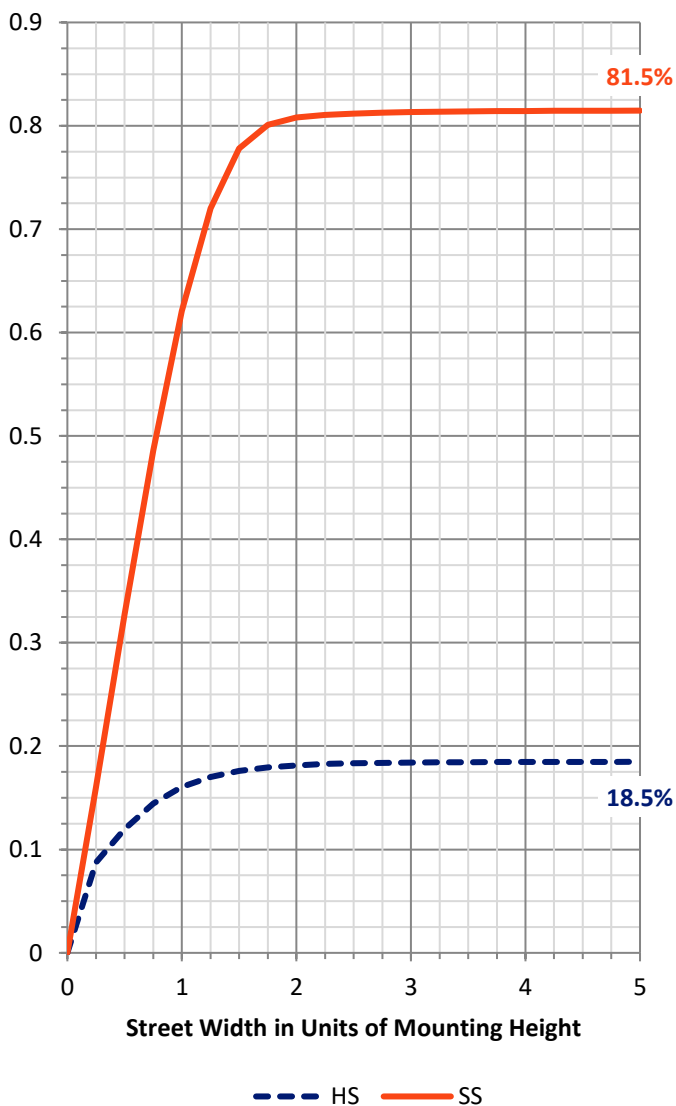
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1296.8	0.0	1296.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	5685.2	0.0	5685.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	6982.0	0.0	6982.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	2.3
10°-20°	423.6	6.1
20°-30°	742.5	10.6
30°-40°	1224.3	17.5
40°-50°	1781.5	25.5
50°-60°	2018.7	28.9
60°-70°	577.2	8.3
70°-80°	44.8	0.6
80°-90°	9.3	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°	6982.0	100.0
0°-180°	6982.0	100.0

**Coefficient of Utilization**

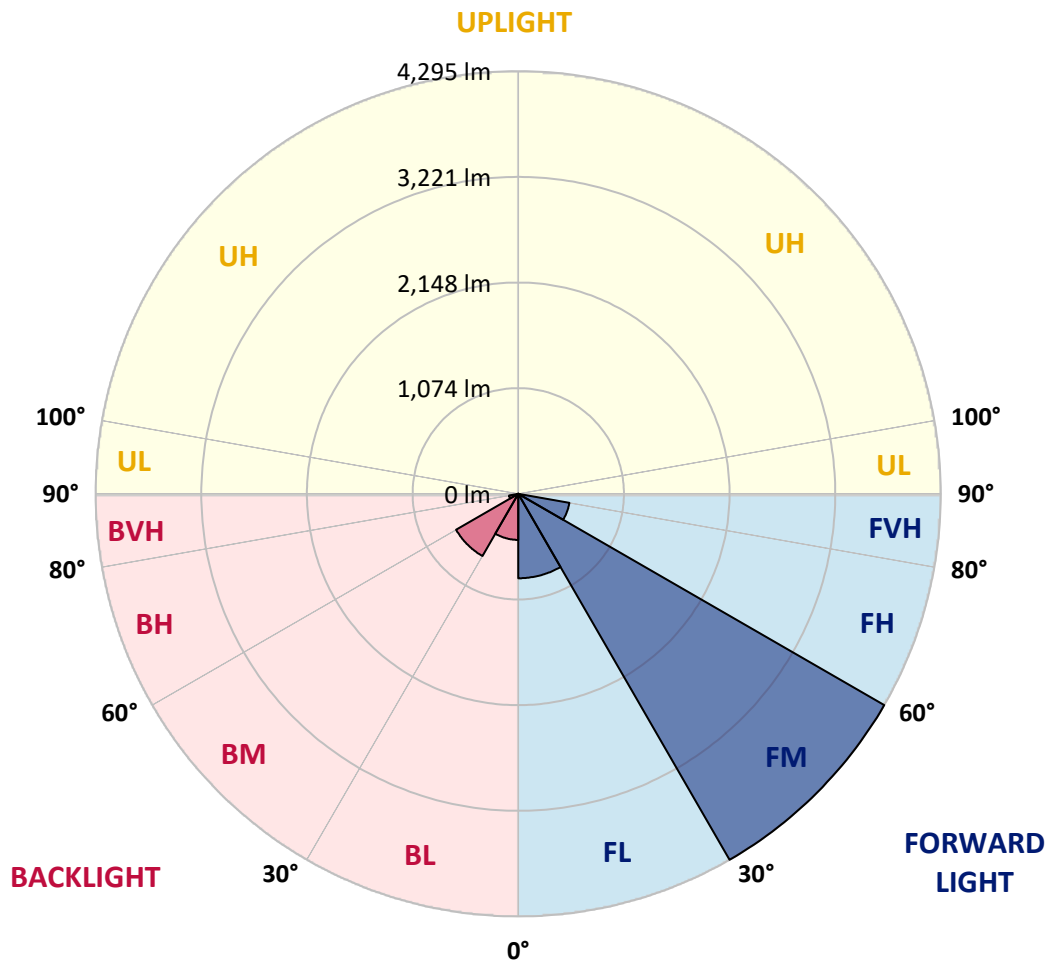


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.3	12.3			
FM (30°-60°)	4295.0	61.5			
FH (60°-80°)	527.3	7.6			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	467.9	6.7	B1/500		
BM (30°-60°)	729.5	10.4	B1/1000		
BH (60°-80°)	94.7	1.4	B0/110		G0/110
BVH (80°-90°)	4.8	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°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1687.7	1704.0	1706.5	1726.4	1725.1	1758.9	1768.9	1770.1	1792.6	1781.3	1810.1
5°	1640.3	1631.5	1627.8	1662.7	1672.7	1702.7	1727.7	1742.6	1788.8	1805.0	1835.0
7.5°	1597.8	1597.8	1600.3	1631.5	1627.8	1666.5	1692.7	1738.9	1806.3	1820.0	1856.3
10°	1556.6	1541.6	1560.4	1592.9	1620.3	1637.8	1692.7	1736.4	1815.0	1855.0	1904.9
12.5°	1535.4	1542.9	1545.4	1569.1	1599.1	1651.6	1681.5	1753.9	1877.4	1901.2	1954.8
15°	1669.0	1654.0	1617.8	1596.6	1621.5	1646.5	1721.4	1795.0	1909.9	1943.6	2003.5
17.5°	1823.8	1811.3	1781.3	1723.9	1667.7	1714.0	1772.6	1840.0	1944.9	1994.8	2083.4
20°	2026.0	2006.0	1976.1	1863.7	1815.0	1765.1	1827.5	1907.4	2002.3	2047.2	2138.3
22.5°	2266.9	2266.9	2199.6	2063.5	1962.3	1914.9	1941.1	1987.3	2065.9	2127.1	2217.0
25°	2517.9	2510.4	2449.2	2308.1	2137.1	2081.0	2110.9	2143.4	2164.6	2198.3	2258.2
27.5°	2805.0	2761.3	2683.9	2527.8	2376.8	2268.2	2300.6	2272.0	2245.7	2263.2	2349.3
30°	2999.7	3027.2	2928.5	2778.7	2636.5	2515.3	2521.6	2496.6	2376.8	2401.7	2452.9
32.5°	3201.9	3219.4	3164.4	3082.1	2939.8	2798.7	2747.5	2726.4	2636.5	2647.6	2597.8
35°	3370.5	3404.1	3355.4	3319.3	3278.0	3164.4	3023.4	3092.1	2947.3	2919.8	2790.0
37.5°	3525.2	3515.2	3572.7	3535.2	3526.5	3446.6	3291.8	3305.6	3208.2	3201.9	3052.2
40°	3663.8	3666.3	3745.0	3762.4	3727.5	3585.2	3360.5	3469.0	3547.7	3555.2	3363.0
42.5°	3778.6	3812.3	3879.8	4020.8	3968.3	3731.2	3431.6	3550.2	3842.3	3888.5	3657.6
45°	3878.5	3947.1	4030.8	4156.9	4127.0	3938.4	3608.9	3717.5	4156.9	4278.0	3934.7
47.5°	3884.7	3974.7	4065.7	4253.0	4290.4	4049.5	3792.4	3982.1	4406.5	4537.6	4136.9
50°	3859.8	3907.2	4089.4	4293.0	4377.8	4230.6	4049.5	4204.3	4648.7	4731.1	4239.2
52.5°	3563.9	3600.2	3965.9	4330.4	4535.1	4435.3	4390.3	4513.9	4895.9	4957.0	4335.4
55°	2971.0	2964.8	3467.8	4141.9	4607.5	4738.6	4711.1	4754.8	5181.7	5236.7	4359.1
57.5°	2032.3	2145.8	2580.3	3449.1	4164.4	4667.5	4696.1	4623.7	4848.4	4869.6	3799.9
60°	1096.0	1143.4	1492.9	2301.9	3170.7	3803.6	3878.5	3747.4	3729.9	3670.0	2712.6
62.5°	435.6	459.4	657.8	1139.7	1727.7	2311.9	2472.9	2419.2	2304.4	2147.1	1404.4
65°	207.2	222.2	327.1	533.0	766.5	963.7	1124.8	1174.6	866.3	780.2	463.1
67.5°	141.0	152.3	238.4	304.6	273.4	285.9	372.0	345.8	203.4	173.5	128.6
70°	107.4	114.9	191.0	207.2	122.4	86.1	96.1	89.9	83.6	84.9	83.6
72.5°	76.1	82.4	139.8	122.4	53.7	39.9	51.2	61.1	61.1	61.1	59.9
75°	46.2	52.4	81.2	47.4	21.2	21.2	32.5	41.2	43.7	44.9	42.5
77.5°	23.7	29.9	27.5	13.7	13.7	16.2	23.7	28.7	31.2	31.2	29.9
80°	5.0	5.0	5.0	7.5	13.7	17.5	23.7	26.2	29.9	29.9	27.5
82.5°	0.0	1.3	3.8	7.5	12.4	16.2	22.5	26.2	29.9	31.2	28.7
85°	0.0	1.3	2.5	5.0	8.7	10.0	8.7	7.5	7.5	7.5	7.5
87.5°	0.0	0.0	1.3	1.3	1.3	2.5	2.5	2.5	2.5	2.5	2.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1812.5	1816.3	1810.1	1808.8	1803.8	1818.8	1782.6	1773.8	1796.3	1775.1	1780.1
5°	1836.2	1845.0	1833.8	1815.0	1787.5	1745.2	1708.9	1661.5	1639.0	1622.8	1620.3
7.5°	1853.7	1860.0	1848.8	1788.8	1706.5	1599.1	1519.2	1460.6	1414.3	1400.6	1378.1
10°	1924.9	1926.1	1870.0	1737.7	1576.6	1435.6	1313.2	1223.3	1177.1	1148.5	1135.9
12.5°	1972.3	1969.9	1856.3	1636.5	1421.8	1234.6	1094.7	986.2	943.7	930.0	921.2
15°	2032.3	2018.5	1823.8	1532.9	1222.1	1019.9	893.8	818.9	815.2	806.4	815.2
17.5°	2079.7	2041.0	1776.4	1344.4	1031.1	840.1	757.7	762.7	772.7	781.5	782.7
20°	2157.1	2077.2	1667.7	1179.7	853.9	720.3	719.1	741.5	766.5	776.4	786.4
22.5°	2215.8	2092.2	1551.6	1003.6	709.0	671.6	692.8	726.5	745.2	755.2	770.2
25°	2237.0	2050.9	1396.9	827.6	639.2	649.1	681.5	704.1	727.8	739.0	732.8
27.5°	2258.2	2029.8	1212.1	681.5	601.7	634.1	661.6	684.1	691.6	706.5	716.5
30°	2309.4	1956.1	1046.1	589.2	583.0	624.2	644.1	651.6	671.6	680.4	680.4
32.5°	2350.6	1927.4	870.1	545.5	580.5	629.2	631.7	631.7	634.1	627.9	625.4
35°	2435.5	1828.8	712.7	519.3	579.2	630.4	636.6	615.4	558.0	535.5	529.3
37.5°	2540.3	1765.1	596.7	513.1	587.9	645.4	655.4	575.5	500.6	464.4	458.1
40°	2667.7	1720.2	520.6	510.6	608.0	680.4	650.3	544.3	446.9	394.4	392.0
42.5°	2816.2	1679.0	469.4	509.3	632.9	716.5	645.4	518.1	392.0	357.0	362.1
45°	2934.8	1656.5	434.4	500.6	641.6	737.7	649.1	471.9	369.5	347.0	349.5
47.5°	3027.2	1609.1	405.7	485.6	640.4	745.2	615.4	453.1	358.3	364.5	370.7
50°	3029.6	1545.4	369.5	453.1	621.7	731.5	576.8	435.6	355.7	382.0	394.4
52.5°	2996.0	1455.5	330.8	407.0	577.9	684.1	541.8	428.2	344.6	342.0	357.0
55°	2876.1	1287.0	265.9	329.6	488.1	564.2	510.6	414.4	310.8	282.2	284.6
57.5°	2324.4	922.5	196.0	235.9	345.8	413.2	460.6	408.2	279.6	239.7	240.9
60°	1439.3	523.0	143.6	161.1	213.4	250.9	373.2	379.5	249.7	202.3	199.7
62.5°	739.0	258.4	111.1	113.6	131.1	147.3	255.9	318.3	226.0	192.3	192.3
65°	247.2	127.3	97.4	87.4	87.4	91.2	154.8	220.9	191.0	161.1	161.1
67.5°	106.1	94.9	84.9	76.1	69.9	66.2	87.4	128.6	142.3	122.4	117.3
70°	82.4	79.9	73.7	63.7	54.9	50.0	51.2	66.2	81.2	78.6	76.1
72.5°	61.1	61.1	58.7	50.0	42.5	36.2	33.7	35.0	38.7	39.9	41.2
75°	42.5	43.7	43.7	38.7	31.2	26.2	22.5	18.8	15.0	12.4	11.3
77.5°	28.7	29.9	32.5	28.7	23.7	17.5	13.7	10.0	6.2	2.5	2.5
80°	25.0	28.7	31.2	28.7	25.0	18.8	13.7	7.5	3.8	0.0	0.0
82.5°	26.2	28.7	32.5	27.5	23.7	17.5	13.7	8.7	3.8	1.3	0.0
85°	6.2	6.2	7.5	8.7	11.3	12.4	10.0	6.2	3.8	1.3	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	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)