

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: P382830

Luminaire Tested: **GLEON-SA2A-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2A-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7588.4 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

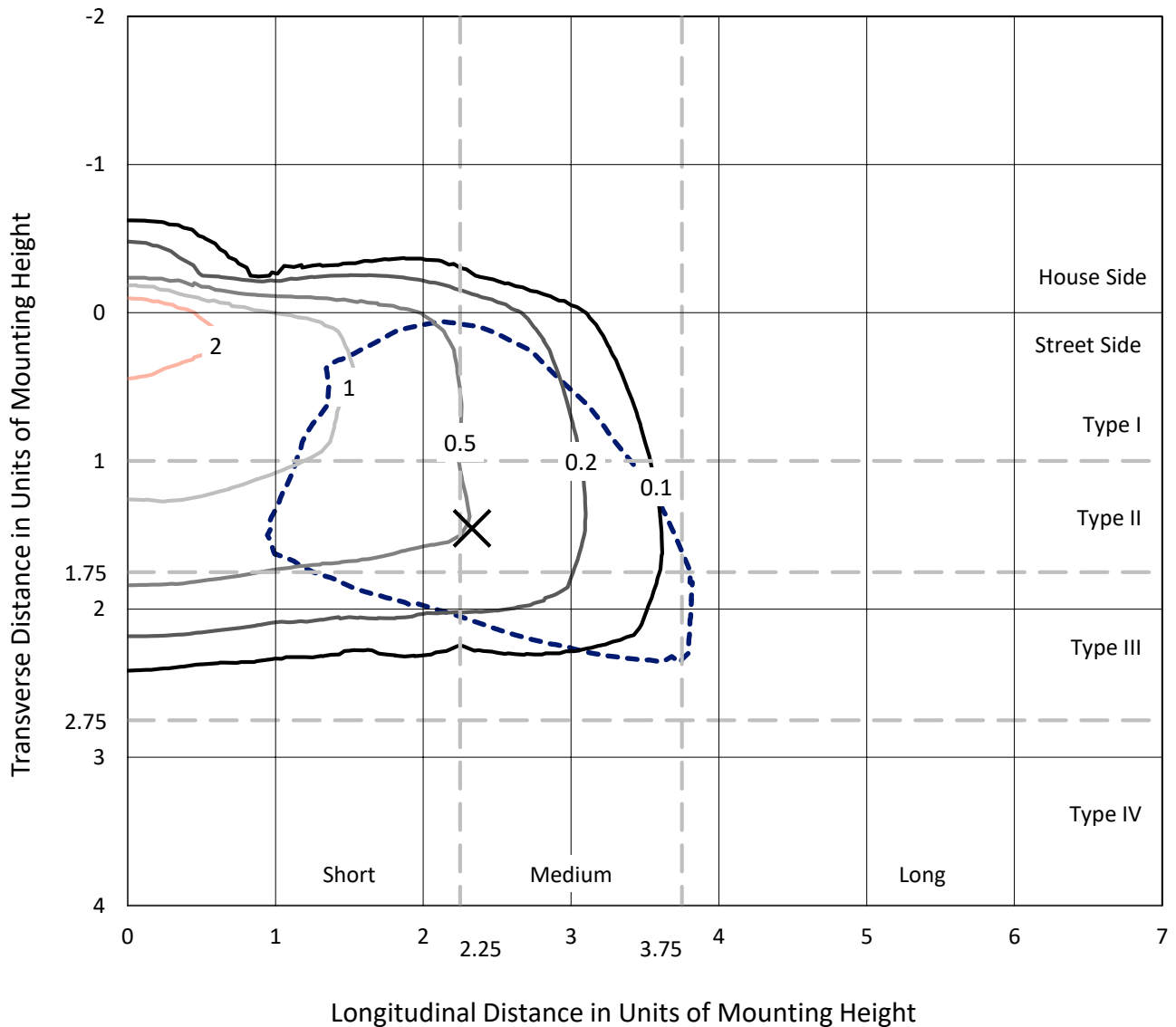
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

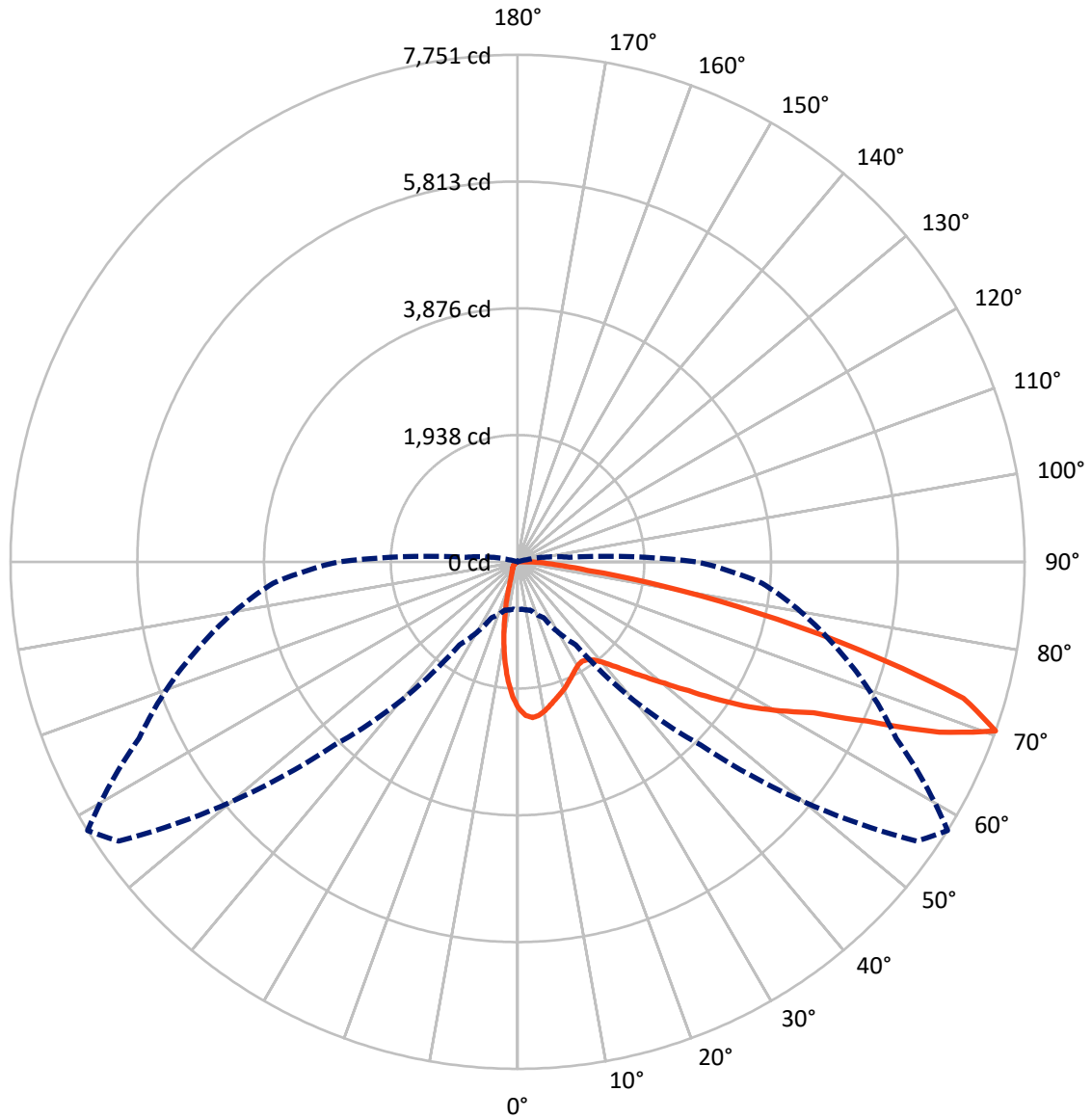
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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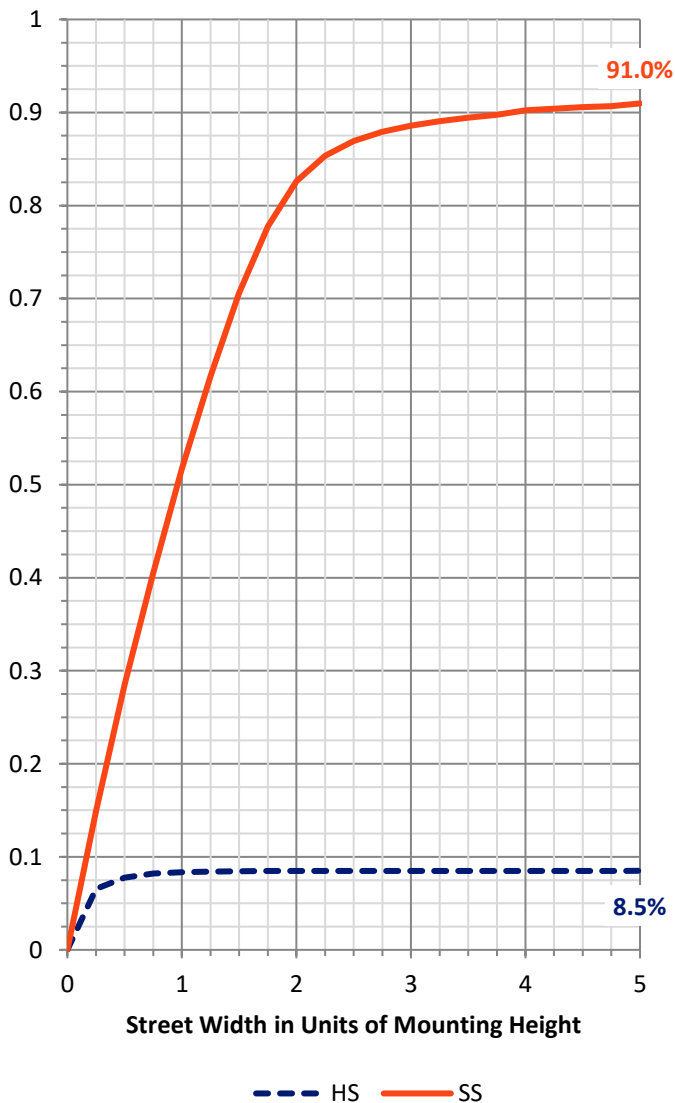
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	649.4	0.0	649.4
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	6939.0	0.0	6939.0
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	7588.4	0.0	7588.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.3	2.4
10°-20°	384.7	5.1
20°-30°	505.8	6.7
30°-40°	669.8	8.8
40°-50°	1001.2	13.2
50°-60°	1603.9	21.1
60°-70°	2021.6	26.6
70°-80°	1090.5	14.4
80°-90°	127.6	1.7
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°	7588.4	100.0
0°-180°	7588.4	100.0

**Coefficient of Utilization**

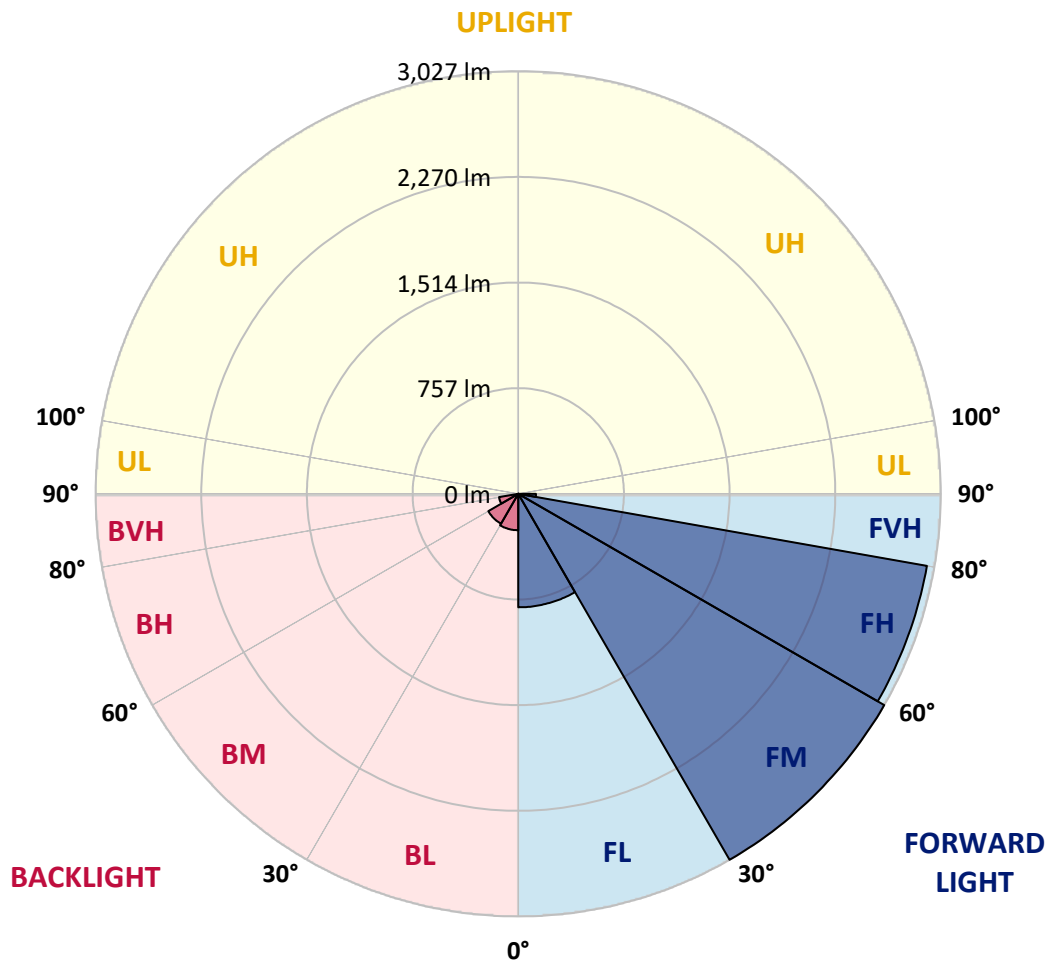


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.9	10.7			
FM (30°-60°)	3027.1	39.9			
FH (60°-80°)	2972.5	39.2			G2/5000
FVH (80°-90°)	126.5	1.7			G2/225
BL (0°-30°)	260.9	3.4	B1/500		
BM (30°-60°)	247.7	3.3	B1/1000		
BH (60°-80°)	139.7	1.8	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2427.4	2421.5	2419.2	2415.4	2400.9	2386.7	2358.7	2350.8	2333.1	2291.1	2246.6
5°	2429.3	2429.0	2435.6	2434.0	2429.0	2422.4	2402.2	2391.7	2361.8	2301.9	2220.4
7.5°	2312.3	2318.2	2333.1	2345.1	2359.0	2376.9	2379.5	2369.4	2344.8	2280.1	2172.2
10°	2155.1	2164.5	2185.4	2209.1	2245.4	2281.4	2313.5	2312.3	2303.7	2240.0	2114.1
12.5°	1997.7	2008.7	2032.7	2067.8	2119.2	2177.9	2235.2	2243.2	2257.3	2204.0	2060.5
15°	1859.7	1869.2	1892.9	1935.8	1999.6	2078.5	2162.7	2177.2	2213.8	2175.9	2015.7
17.5°	1742.7	1748.7	1766.0	1813.7	1887.5	1983.2	2092.6	2121.0	2175.6	2153.8	1976.8
20°	1660.9	1662.0	1673.2	1706.8	1780.6	1887.5	2020.1	2060.8	2135.2	2134.9	1936.8
22.5°	1620.6	1617.4	1619.7	1638.9	1693.2	1796.4	1947.5	1995.7	2099.0	2118.8	1896.1
25°	1613.1	1610.5	1604.2	1606.7	1639.5	1716.6	1874.3	1930.2	2067.1	2109.0	1860.8
27.5°	1636.7	1639.2	1628.5	1617.2	1619.7	1664.8	1809.3	1874.0	2041.2	2109.0	1835.8
30°	1684.3	1685.6	1677.7	1662.9	1643.0	1650.2	1764.2	1828.8	2028.3	2123.6	1820.1
32.5°	1737.1	1744.0	1743.0	1731.0	1702.7	1673.2	1753.5	1812.4	2027.3	2155.8	1818.5
35°	1802.4	1810.3	1823.5	1821.0	1791.3	1743.0	1790.1	1836.5	2046.0	2208.8	1835.5
37.5°	1871.8	1883.8	1912.2	1925.7	1906.5	1851.9	1872.0	1905.2	2095.8	2294.6	1878.7
40°	1939.0	1952.5	2004.3	2057.6	2043.1	1986.9	1996.4	2022.9	2184.5	2417.9	1960.7
42.5°	2004.9	2025.1	2101.2	2188.9	2206.3	2161.5	2166.5	2187.6	2316.0	2587.7	2094.9
45°	2083.8	2106.5	2219.1	2327.4	2373.8	2354.2	2375.6	2389.6	2488.0	2812.1	2275.7
47.5°	2199.6	2225.8	2364.0	2487.4	2568.7	2581.4	2624.6	2633.8	2705.4	3073.4	2511.4
50°	2425.6	2432.8	2557.8	2669.7	2787.1	2862.8	2912.1	2919.0	2968.6	3358.9	2805.7
52.5°	2709.9	2714.5	2785.2	2860.3	2993.8	3148.4	3263.6	3273.4	3283.8	3637.2	3096.4
55°	2992.2	2991.6	3038.3	3082.5	3235.2	3459.9	3709.8	3715.8	3641.0	3901.3	3318.5
57.5°	3168.7	3185.6	3256.7	3313.4	3526.7	3814.9	4161.6	4183.7	4016.2	4096.9	3538.1
60°	3112.5	3120.7	3278.1	3488.3	3890.0	4319.4	4618.8	4624.5	4298.3	4292.3	3815.8
62.5°	2651.7	2656.2	2903.5	3336.8	4073.9	4973.8	5170.4	5078.0	4622.6	4563.3	4148.1
65°	1817.4	1846.2	2052.9	2588.3	3736.0	5384.3	6024.2	5871.2	5117.1	4954.0	4448.4
67.5°	1070.3	1064.3	1166.6	1561.0	2743.9	5111.7	7104.4	6952.2	5791.3	5215.5	4360.4
70°	731.1	727.0	766.1	945.1	1549.0	3965.3	7444.2	7751.1	6386.8	5039.4	3752.6
72.5°	521.9	524.1	581.8	734.2	972.4	2310.3	6401.6	7128.3	6200.3	4393.2	2852.5
75°	354.4	360.3	443.0	602.3	852.6	1175.3	4542.8	5418.7	5048.9	3192.9	1639.5
77.5°	190.6	197.2	294.7	485.3	770.9	816.6	2922.2	3729.4	3171.5	1435.4	475.2
80°	79.6	83.3	137.9	352.8	666.1	717.2	1719.4	2261.4	1351.5	283.0	106.0
82.5°	34.4	36.3	57.4	210.4	497.9	605.5	910.3	1088.0	409.6	62.1	53.3
85°	6.6	7.0	23.7	111.4	317.8	341.7	590.0	578.4	184.0	26.8	38.8
87.5°	0.0	0.0	5.7	35.0	93.4	186.1	360.0	355.6	62.5	12.9	14.5
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°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2223.9	2202.1	2156.3	2099.9	2056.7	2009.1	1971.2	1923.2	1902.4	1903.3	1892.0
5°	2174.0	2129.2	2028.0	1900.2	1801.7	1700.1	1612.7	1525.6	1474.2	1457.5	1441.7
7.5°	2102.8	2031.7	1870.2	1673.2	1506.7	1343.9	1202.2	1077.5	998.7	960.1	946.0
10°	2022.3	1922.5	1688.7	1429.4	1191.4	971.2	787.6	628.0	564.1	520.9	509.9
12.5°	1951.6	1816.5	1511.4	1179.2	896.8	631.0	456.0	356.6	313.4	296.3	293.4
15°	1885.0	1717.5	1340.7	952.6	621.0	388.5	290.0	256.2	246.1	243.3	243.3
17.5°	1822.2	1623.1	1173.8	729.5	410.8	272.3	240.2	232.5	229.4	229.1	229.4
20°	1756.6	1528.8	1009.7	534.5	286.8	230.7	221.8	217.7	216.8	216.8	216.8
22.5°	1693.8	1434.4	850.0	381.8	230.0	210.4	206.1	203.2	202.2	202.0	201.3
25°	1633.6	1344.8	694.2	269.8	202.0	192.8	189.0	185.2	182.4	180.8	179.9
27.5°	1584.0	1264.9	549.1	216.5	182.4	174.5	169.7	164.0	157.2	154.0	152.7
30°	1544.6	1192.1	423.1	182.7	164.0	156.2	149.0	139.2	129.0	123.7	123.3
32.5°	1513.7	1120.5	321.2	161.5	147.7	137.9	127.4	115.1	103.5	97.5	97.2
35°	1498.5	1057.4	245.5	146.1	133.1	120.8	107.9	94.4	83.0	77.3	76.7
37.5°	1508.5	1004.0	191.5	133.1	120.8	106.7	91.5	77.3	67.2	62.1	61.9
40°	1545.5	969.9	155.6	122.1	110.5	93.1	76.7	63.4	54.9	50.8	50.5
42.5°	1624.1	957.4	132.8	113.0	100.3	80.5	63.7	52.4	44.5	41.6	41.0
45°	1755.3	976.0	117.4	104.1	89.9	68.5	52.7	42.9	36.0	33.7	33.4
47.5°	1930.2	1024.9	106.3	95.6	80.5	57.8	43.9	34.7	29.3	27.1	26.8
50°	2155.4	1102.5	97.2	87.1	71.6	48.9	36.3	27.5	22.7	21.1	21.1
52.5°	2400.6	1194.9	89.0	79.2	62.8	40.7	29.3	21.1	18.0	16.1	16.1
55°	2603.2	1275.8	80.1	73.2	52.1	33.7	22.4	16.1	13.2	12.3	12.3
57.5°	2805.4	1361.8	70.1	62.8	41.6	27.5	17.0	12.0	9.8	9.1	9.1
60°	3067.7	1467.3	60.3	51.1	32.8	20.9	12.6	8.5	7.3	7.0	7.0
62.5°	3356.1	1529.1	51.4	41.0	25.5	15.5	9.1	5.7	5.4	5.4	5.0
65°	3532.4	1441.7	43.2	32.8	19.8	11.6	6.0	4.1	4.8	4.4	3.8
67.5°	3307.5	1128.7	35.3	25.5	15.5	8.8	3.8	2.8	5.0	4.1	3.2
70°	2738.6	790.1	27.5	18.0	12.3	7.5	2.5	1.9	5.4	4.1	2.5
72.5°	2049.4	528.8	21.8	12.0	9.1	6.6	2.2	0.9	4.8	3.4	2.2
75°	1119.8	213.0	17.3	7.5	5.7	4.8	1.6	0.7	3.2	2.5	1.6
77.5°	294.7	56.2	12.6	5.0	3.2	1.9	0.9	0.3	1.6	1.3	0.7
80°	75.1	21.8	8.2	3.4	2.2	0.9	0.0	0.0	0.3	0.0	0.0
82.5°	40.1	9.1	5.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.3	6.0	2.8	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	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)